



THE REPUBLIC OF THE UNION OF MYANMAR  
Ministry of Health and Sports

**NATIONAL ACTION PLAN  
FOR HEALTH SECURITY (NAPHS)  
2018 ~ 2022**



OCTOBER 2018



**THE REPUBLIC OF THE UNION OF MYANMAR  
MINISTRY OF HEALTH AND SPORTS**

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**ACCRONYMS/ ABBREVIATIONS**

|               |                                                         |
|---------------|---------------------------------------------------------|
| <b>AAR</b>    | After Action Review                                     |
| <b>ADB</b>    | Asia Development Bank                                   |
| <b>AFP</b>    | Acute Flaccid Paralysis                                 |
| <b>AMR</b>    | Antimicrobial Resistance                                |
| <b>CBRN</b>   | Chemical, Biological, Radiological & Nuclear            |
| <b>CEU</b>    | Central Epidemiology Unit                               |
| <b>CVDPV</b>  | Circulating Vaccine Derived Poliovirus                  |
| <b>DAE</b>    | Division of Atomic Energy                               |
| <b>DMR</b>    | Department of Medical Research                          |
| <b>DSMR</b>   | Defence Services Medical Research                       |
| <b>DoPH</b>   | Department of Public Health                             |
| <b>EOC</b>    | Emergency Operation Centre                              |
| <b>EPI</b>    | Expanded Programme on Immunization                      |
| <b>EQA</b>    | External Quality Assessment                             |
| <b>FAO</b>    | Food and Agriculture Organization of the United Nations |
| <b>FDA</b>    | Food & Drug Administration                              |
| <b>FETP</b>   | Field Epidemiology Training Programme                   |
| <b>Gavi</b>   | The Vaccine Alliance                                    |
| <b>GMS</b>    | Greater Mekong Subregion                                |
| <b>HCAI</b>   | Health Care Associated Infections                       |
| <b>HLPU</b>   | Health Literacy Promotion Unit                          |
| <b>IAEA</b>   | International Atomic Energy Agency                      |
| <b>IHR</b>    | International Health Regulations (2005)                 |
| <b>ILI</b>    | Influenza Like Illness                                  |
| <b>IPC</b>    | Infection Prevention and Control                        |
| <b>IRD</b>    | International Relation Division                         |
| <b>JEE</b>    | Joint External Evaluation                               |
| <b>LBVD</b>   | Livestock Breeding & Veterinary Department              |
| <b>MBDS</b>   | Mekong Basin Disease Surveillance                       |
| <b>M-HSCC</b> | Myanmar Health Sector Coordination Committee            |
| <b>MoHS</b>   | Ministry of Health and Sports                           |
| <b>MoI</b>    | Ministry of Information                                 |
| <b>MOU</b>    | Memorandum of Understanding                             |

|               |                                                        |
|---------------|--------------------------------------------------------|
| <b>MPH</b>    | Master of Public Health                                |
| <b>NAPHS</b>  | National Action Plan for Health Security               |
| <b>NDMC</b>   | National Disaster Management Committee                 |
| <b>NGO</b>    | Non- governmental organization                         |
| <b>NHL</b>    | National Health Laboratory                             |
| <b>NIMU</b>   | National Health Plan Implementation Monitoring Unit    |
| <b>OEH</b>    | Occupational & Environmental Health                    |
| <b>OIE</b>    | World Health Organization for Animal Health            |
| <b>PHE</b>    | Public Health England                                  |
| <b>PHEIC</b>  | Public Health Emergency of International Concern       |
| <b>PHEOC</b>  | Public Health Emergency Operation Center               |
| <b>PHL</b>    | Public Health Laboratory                               |
| <b>POC</b>    | Points of Care                                         |
| <b>PTC</b>    | Poison Treatment Center                                |
| <b>RRT</b>    | Rapid Response Team                                    |
| <b>SEAR</b>   | Southeast Asia Region                                  |
| <b>SOP</b>    | Standard Operating Procedures                          |
| <b>UHC</b>    | Universal Health Coverage                              |
| <b>UNICEF</b> | United Nations International Children's Emergency Fund |
| <b>US CDC</b> | United States Center for Disease Control               |
| <b>USD</b>    | US Dollar                                              |
| <b>VPD</b>    | Vaccine Preventable Diseases                           |
| <b>WHO</b>    | World Health Organization                              |



# NATIONAL ACTION PLAN FOR HEALTH SECURITY (NAPHS)

## A Shared Opportunity for Sustainable IHR (2005) Implementation

### FOREWORD

Myanmar, as a member state of World Health Organization, is mandatory to build up its capacity to fulfill core capacities of International Health Regulation (2005) assuring Health Security for citizens of Myanmar. It can lead to strengthening of the country's capacity to prevent, detect and protect against, control and provide response to public health risks, effects of diseases of potential international spread.

Now, Myanmar is on track of political, social and economic transition, there is a real opportunity for the country to live up to its full potential. The growths in international travel and trade give spaces for emergence or re-emergence of international disease threats and other public health risks for Myanmar.

Five years National Action Plan for Health Security (NAPHS) Myanmar (2018-2022) was developed to fulfill the purpose and scope to prevent, protect, control and provide response to spread of disease internationally and within Myanmar, in line with IHR. In the formulation process, multi-sectoral stakeholders, relevant ministries and development partners were actively involved for resulting strong, cohesive, compact and comprehensive plan. Development of the plan are under strategy of Myanmar National Health Plan (2017-2021), pave ways towards UHC in order to be as a sustainable development plan.

This plan will cover nineteen key technical areas under four strategic categories of prevent, detect, respond and other IHR related hazards and points of entry. The NAPHS will help in intensifying and maintaining the capacity for prevention, rapid detection, verification and responding to health risks, both diseases and other events. It will also help in effectively utilizing WHO tools and directives on implementing the National Action Plan that support to develop core capacities for surveillance, preparedness and response towards all public health emergencies. Furthermore, it will help in identifying the priorities that are needed to meet the IHR commitments and obligations.

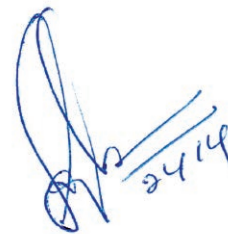
Changing interactions among human, animal and the environment in recent years has resulted in increasing emergence and re-emergence of infectious diseases, natural disasters and other public health emergencies of international concerns across the world. Thus, health security not only requires strong alliance among nations, but also strong partnerships, cooperation and collaborations among the different sectors, especially between the sectors of human health, animal health and Environment, as "One Health" Approach.

Not only in development but also in implementation and evaluation, cooperation, coordination and collaboration among inter-ministries, multi-sectoral stakeholders, and development partners, and working with and promoting young professionals in country as



future generation responsible for effective and sustainable implementation of the health and health-related programmes, are essential for fulfilling the purposes of plan. Existing Technical Strategy Group for Public Health Emergencies & Preparedness under guidance of Cross Government Steering Committee in Myanmar Health Sector Coordination Committee will be a good platform and core body of NAPHS for overseeing the implementation steps.

Finally, I would like to strongly endorse this National Action Plan for Health Security (2018-2022) and all that is required to ensure its efficient implementation. We are confident that the plan would provide key framework to ensure health security nationally, regionally and globally resulting in fulfillment of sustainable development goals.



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- Representatives from MoHS's various Departments and Programs
- Representatives from other Ministries who provided valuable inputs
- Different agencies and individuals that were consulted while preparing this plan and report for the information they shared
- The following WHO entities: the JEE team, WHO country office in the Republic of the Union of Myanmar, WHO Regional Office for South East Asia (WHE department), WHO HQ (Country Health Emergencies Preparedness and IHR department, and Emergency Operations department, in the WHE programme)
- The Government and national experts of the Republic of the Union of Myanmar for their support of, and work in, preparing for the JEE mission
- Food and Agriculture Organization of the United Nations (FAO), and World Bank, JICA, US CDC, DFID, PHE, ADB and relevant development partners for their contribution of experts and expertise
- The United States Agency for International Development (USAID) and PIP Framework, Infectious Hazard Management, WHO Health Emergencies Programme for their kind financial contribution to this important development.

## EXECUTIVE SUMMARY

A World Health Assembly (WHA)'s decision in May 2016 requested WHO to develop a global implementation plan that included immediate planning to improve delivery of the International Health Regulations (2005). The Global Action Plan recommends that Member States, with the support of WHO and development partners, develop and implement five year national action plans. Member States have agreed to work towards Universal Health Coverage and to build resilient health systems which can adapt and respond to challenges posed by outbreaks and other emergencies in country and internationally. Myanmar also agreed to work together to strengthen prevention, detection and response to public health emergencies under the International Health Regulations (2005).

As a Member State, Myanmar has carried out Joint External Evaluation of IHR core capacities to assess the country's capacity under the IHR to prevent, detect, and rapidly respond to public health threats. Myanmar is the third country in the South-East Asia Region to take part in the Joint External Evaluation (JEE) which took place in Nay Pyi Taw in May 2017 and the first country who developed National Action Plan for Health Security in the SEARO. The official request for Joint External Evaluation (JEE) was made to The World Health Organization (WHO) in January 2017. The mission consisted of a multi-sectoral International team made up of individuals with recognized expertise in their field from different countries. Support was also given by technical advisors from The Food and Agriculture Organization (FAO), Public Health England (PHE), Public Health Agency of Sweden and Centre for Disease Control (US-CDC) and Ministry of Health, Sri Lanka.

Technical presentations led by the Ministry of Health and Sports (MoHS) were given by the multi-sectoral Myanmar team focusing on the self-assessment for core capacities to IHR they had conducted followed by a joint multi-sectoral discussion. The joint recommendations that followed emerged from this process and supported with various field visits. The team of experts visited The National Health Laboratory, Yangon Seaport, the Livestock Breeding and Veterinary Department (LBVD) Laboratory and Yangon International Airport. All the nineteen action packages/technical areas were assessed. A multi-sectoral team of experts (nominated by JEE secretariat) participated in the week long assessment which took place from 3 to 9 May 2017. All the 19 action packages/technical areas were assessed.

The summary findings demonstrated that although there has been major progress, gaps still exist in key core technical areas. Out of the 48 indicators, Myanmar had got 2 (4.2%) Green (Demonstrated/sustainable Capacity), 33 (68.8%) Yellow (Limited/Developed capacity), and 13 (27.0%) red (No capacity) on the Joint External Evaluation. Except measles coverage under immunization which has scored 4 (even in Green), majority lie between limited to developed capacity. Areas for Antimicrobial Resistance, Biosafety from prevention strategic category, and preparedness, emergency response operation, medical counter measures, risk communication from response strategic category, and Chemical events, radiation emergencies from other category falls in red (no capacity) that indicate immediate priority actions for these areas to be started.

As a follow up to the JEE in May 2017, WHO was requested to support in the development of a National Action Plan for Health Security. Based on the findings and recommendations

of JEE, the Ministry of Health and Sports (MoHS), Myanmar, has initiated development of five-year National Action Plan for Health Security with WHO's technical supports which was materialized in November 2017 and February 2018 through costing working sessions with representatives from multi-disciplinary and multi-sectoral experts from MoHS and relevant ministries, and development partners such as FAO, US CDC, USAID, JICA, PHE, DFID, World Bank, ADB and PREDICT contributed technical expertise to the development of the plan. The relevant ministries involved in NAPHS development are Ministry of Agriculture Livestock and Irrigation, Department of Civil Aviation, Myanmar Port Authorities, Myanmar Port Authorities, Department of Customs, Department of Immigration, Department of Forestry, Ministry of Defence, Ministry of Foreign Affairs, Myanmar Police Force, General Administration Department, Department of Atomic Energy (TL), Department of Relief and Resettlement and City Development Committee. Myanmar is the first country in South East Asia Region-SEAR that has developed "NAPHS"

This plan aims to reduce morbidity, mortality, disability and socio-economic disruptions due to public health threats. Specifically it aims at to: (i) strengthen and sustain the capacity to prevent outbreaks and other health emergencies; (ii) strengthen and sustain the capacity to promptly detect and confirm outbreaks; (iii) strengthen and sustain the capacity to promptly respond to and recover from the negative effects of outbreaks and health emergencies; (iv) strengthen linking human and animal health as "One Health Approach"; (v) strengthen multi-sectoral cooperative efforts to prevent, detect, control and response against public health risks; (vi) To function actions for legislations and formalized procedures. The national action plan will align with all activities with the "One Health approach" and multi-sectoral cooperative actions planned; mapping existing and potential domestic and external financing to support the delivery of the national action plan and strengthen institutional framework to support Health Security and One Health implementation.

The five Year plan (2018-2022) will cover 19 key technical areas under the four strategic categories of prevent, detect, respond and other IHR-related hazards and points of entry with a total cost of USD 158,524,934.49. The major costs being on the Prevent component (56.08%), followed by Detect (24.35%), other IHR Hazards (17.99%); and then Response (1.58%) of the total cost estimated. Some of activities in NAPHS are ongoing activities and newly inputs of activities are prioritized and planned in order to achieve intended objectives for JEE indicators under each technical area and be in line with Myanmar National Health Plan.

The main cost drivers of the National Action Plan for Health Security, Myanmar includes Immunization (46,746,771.74 USD), the National Health Laboratory (32,333,141.93 USD), the Chemical Events (22,585,312.48 USD), the Zoonotic Diseases (20,652,080.45 USD), the Biosafety and Biosecurity (15,011,529.81 USD), Antimicrobial Resistance (5,199,801.47 USD), the Points of Entry (3,692,693.83 USD), the Workforce Development (3,505,474.36 USD), the Radiation Emergency (2,238,841.78 USD) and then the Emergency Response Operations (1,212,472.23 USD).

Multi-sectoral involvement in planning, implementation, monitoring and implementation of NAPHS, regular communication mechanism among stakeholders, commitments and policy

supports by government and stable security and political weather will mitigate risks in not only implementation of NAPH but also international communications and relationship, budget, financing and human resources. Regular information sharing practices, technical working group meetings, multi-sectoral cooperation and one health approach will reduce constraints and challenges for implementation of NAPHS for better progress.

The implementation of the plan will consider principles such as ownership and leadership; strengthening partnerships and development; promoting multi-sectoral collaboration; evidence-based evaluation and actions; shared responsibility; efficiency, one health approach. Implementation of NAPHS activities will focus on sub-national level to enhance capacity of states/regional and till township level health care system.

Existing Technical Strategy Group for Public Health Emergency & Preparedness under guidance of National Cross Government Steering Committee in Myanmar Health Sector Coordination Committee acts as platform for overseeing the implementation of NAPHS. Member of committee will work together regular monitoring, supervision through regular coordination meetings, field visit by each technical areas. Evaluation of each indicated objective for each output indicators for each technical area will be assessing bi-annually. Annual reporting and 5 yearly JEE assessment will be conducted as major parts of Monitoring and Evaluation for NAPHS.

## RECORD OF CHANGES

JEE recommendation by IHR core capacity indicators was a significant record for initiation and developing of NAPHS, Myanmar. This record encouraged Myanmar MoHS to start actions for workshops for NAPHS development, for which first development workshop was conducted in September 2017 with drafted NAPHS matrix and its' estimated cost, and, finalization workshop were held in February 2018 resulting more complete NAPHS matrix and its' costing with important recommendations and next steps as well. These actions makes multi-sector stakeholder more strong coordination and cooperation efforts to complete NAPHS plan. During August to October 2018, MoHS has tried to finish complete and comprehensive NAPHS with narrating of the plan by the financial and technical of WHO assigning one national consultant. During these three months, key expert responsible persons for different ministries and departments were working together with National consultant through close talks and discussion time to time for finalization of NAPHS package. Review, discussion and revision of the plan were reiterated along the process of development for better, reasonable and suitable planning.

Event on endorsement and acknowledgment by multiple ministries and dissemination of agreed NAPHS was conducted at Nay Pyi Taw in October 2018 in order to do advocate and increase awareness for effective and cooperative implementation to all stakeholders and development partners. Regular plan and achievements updates will be shared and monitored during monthly, bi-annual evaluation and coordination meetings among Technical Working Group and National Cross Government Overarching Committee. Minutes and notes are kept as records and source of information for revision of plan.

Yearly revision on activity and costing will be conducted during annual evaluation and coordination meeting. The information, updates, lesson-learns, evaluation results, constraints and challenges from regular records, resource mapping (HR and budget) and inputs from implementing stakeholders will be used as resources. This process will give more spaces of opportunity for better planning of efficient and effective NAPHS in next consecutive year.

## BACKGROUND / CONTEXT

### COUNTRY PROFILE

#### Situation Analysis

The Republic of the Union of Myanmar is the largest country in mainland South-East Asia and is located on the Bay of Bengal and Andaman Sea. It is bounded on the north and north-east by the People's Republic of China, on the east and south-east by the Lao People's Democratic Republic and the Kingdom of Thailand, on the west and south by the Bay of Bengal and Andaman Sea, on the west by the People's Republic of Bangladesh and the Republic of India.

### ADMINISTRATIVE AND POLITICAL STRUCTURE

Administratively, Myanmar is divided into seven regions (Ayeyawady, Bago, Magway, Mandalay, Sagaing, Tanintharyi, and Yangon), seven states (Chin, Kachin, Kayah, Kayin, Mon, Shan, and Rakhine) and Union Territory. Nay Pyi Taw, the capital, is under the direct administration of the president. The regions and states are divided into 70 districts and 330 townships, 84 sub-townships, 398 towns, 3,063 wards, 13,618 village tracts and 64,134 villages. There are also five self-administered zones and one self-administered division for six minority ethnic groups. (WHO 2014) The smallest administrative unit is the village tract.

There are over 130 ethnic groups in Myanmar with eight major groups: Bamar (60%), Shan (8.5%), Kayin (16.2%), Rakhine (4.5%), Mon (2.4%), Chin (2.2%), Kachin (1.4%), and Kayah (0.4%). About 90% of the population is Buddhist, 5% Christian, and 4% Muslim.

#### Demography

Socio-demographic and administrative characteristics are total population: 51.4 million, Annual Growth rate (%): 1.0%, Infant Population: 0.9 million, Under Five year population: 4.6 million, Proportion of rural population: 67%, Proportion of Urban population: 33 %, 0-15 Year population: 25%, 15-59 year population: 67%, 60 and above year population: 8%, Number of state and Regions: 15, Number of district: 70, Number of Township: 330. (Myanmar Census 2014)

A quarter of Myanmar's population is under fifteen, two-thirds are between the ages of 15-59, and the remaining 8% are sixty or over. Two-third of the population lives in rural areas. The infant population is close to a million. Myanmar had a census in 2014, following a period without a census since 1983, and estimated the population is approximately 52 million.

Some internal migration takes place in the country as people leave their homes to work in areas with gold and jade mines as well as rubber plantations.



## Social-economic and Political context

Myanmar gained independence from British colonial rule in 1948. After fifteen years of democratic government, there was a military coup in 1962. In 1974, the Burma Socialist Programme Party introduced a constitution. The military staged another coup in 1988. In 2008, a new constitution was ratified and there were national elections in November 2010. The country now has elected chair persons and vice-chairpersons of parliament.

Since the new government came to power in 2011, the country has introduced several sweeping reforms to end its isolation. Formation of civil society organizations is now allowed and there is media freedom.

Recent constitutional reforms have opened up new health sector and program pathways in Myanmar. Administrative systems becomes more decentralized, NGOs become more active, policy reforms such as social protection are beginning to emerge, and there has been a substantial increase in international development assistance aid flows and government health investment. The main opportunity presented is increased resources for health system development and operational delivery of public services, and expanded opportunity for peace agreements with populations in conflict. The main threat is lack of absorptive capacity by sub national institutions that have limited systems (planning, budgeting, M & E) to manage and direct larger operational budgets. The political reform context has also generated higher levels of population mobility and urban drift, presenting major contextual challenges in terms of the growth of urban poor settlements.

## HEALTH SECTOR ANALYSIS

### Macroeconomic Context

Myanmar has been under economic sanctions since the late 1990s and these have inhibited economic growth. The new civilian government that came into power in 2011 has introduced reforms to integrate Myanmar's economic with the global system. In the past year, Myanmar's economy has been growing well and was 8.5 percent in real terms in 2014-2015. However, growth is projected to decline to 6.5 percent in 2015-2016 due to floods and slowing investments. Economic reforms have supported consumer and investor confidence despite ongoing business environment and socio-political challenges. Rapidly rising demand for investment-related imports has widened the current account deficit. Inflation is estimated to have reached over 10 percent in the year. Medium-term economic growth prospects remain strong assuming continued progress on reforms ([www.worldbank.org/en/country/myanmar](http://www.worldbank.org/en/country/myanmar)).

### Health Status

The health status of the Myanmar population is poor and does not compare favorably with other countries in the region. Life expectancy at birth in Myanmar is 64.7 years, the lowest among ASEAN countries. The maternal mortality ratio (MMR) is the second highest among ASEAN countries at 282 deaths per 100,000 live births. Every year, around 2,800 women die during pregnancy or childbirth (2014 census). The under-five mortality rate (U5MR) is 72 deaths per 1,000 live births – compared to 29 in Cambodia and 12 in Thailand – and

the infant mortality rate is 62 per 1,000 live births, compared to 25 in Cambodia and 11 in Thailand (World Bank). Malnutrition is highly prevalent, with more than one third of the children under the age of five stunted. Both HIV prevalence and TB incidence are second highest among ASEAN countries. Burden of disease associated with non-communicable diseases (NCDs) is increasing at alarming rates; it is estimated to already account for more than 40 per cent of all deaths. Diabetes and hypertension are particularly prevalent and have so far been largely neglected. Hidden behind the national averages are wide geographic, ethnic and socio-economic disparities. For example, the MMR in Chin State is 357, compared to 213 in Yangon, and the U5MR ranges from 108 in Magway Region to 48 in Mon State. Children from poorer households are more than twice as likely. (Myanmar National Health Plan 2017- 2021)

### Health system

The health system has evolved over time and the country has gone from a hospital centric approach during 1988-2011 to a system with a goal of universal coverage. However, government spending on health is still low. The government has spent a relatively low percentage of its general expenditure on health with only 1.8% of GDP spent on health in 2013 (Health Sector Review WHO 2014)

### Health System Organization

The Ministry of Health and Sports (MoHS) is responsible for planning, financing, administrating, regulating and providing health care; it is headed by the Minister. The MoHS has recently reorganized and now has six departments: Department of Traditional Medicine (DTM), Department of Medical Research (DMR), Department of Health Professional Resource Development and Management (DHPRDM), Department of Medical Service (DMS), Department of Public Health (DoPH), and Department of FDA (FDA) (Myanmar National Health Plan 2017- 2021).

### Health Financing

Government health expenditure in Myanmar, 3.65% of general government expenditures (source: MoHS). Expenditure on health has increased in recent years but is still low at about 3.65%. Inadequate government expenditure on health over the past decade has results in high out-of- pocket payments by household, which because the largest source of financing for health care (79%) (WHO 2014)

## INTERNATIONAL HEALTH REGULATION CAPACITY ANALYSIS

### Situation Analysis

A World Health Assembly (WHA)'s decision in May 2016 requested WHO to develop a global implementation plan that included immediate planning to improve delivery of the International Health Regulations (2005). In consideration of the growth in international travel and trade, and the emergence or re-emergence of international disease threats and other public health risks, the Global Action Plan recommends that Member States, with the support of WHO and development partners, develop and implement five year national action plans.



This shall be in line with The purpose and scope of the IHR (2005) are “to prevent, protect against, control and provide a public health response to the international spread of disease in ways that are commensurate with and restricted to public health risks, and which avoid unnecessary interference with international traffic and trade.”

As member State of WHO, in order to prevent, detect, control and response to internal and international public health and emergency risks, Union Minister for Ministry of Health and Sport, have initiated to develop National Action Plan for Health Security through technical and financial supports from development partners, especially for WHO and multi-sectoral cooperation from stakeholders.

JEE mission, a multi-sectoral international team made up of individual from different countries with recognized expertise in their field participated in the week long assessment which took place during May 2017. Myanmar is the third country in the South-East Asia Region to take part in the Joint External Evaluation (JEE) which took place in Nay Pyi Taw. The JEE was undertaken by the MoHS that oversees Myanmar’s health services through seven departments; The Departments of Public Health, Medical Services, Food & Drug Administration, Medical Research, Traditional Medicine, Health Professional Resource Development & Management, and Sports & Physical Education. All the nineteen technical areas were assessed. Myanmar multi-sectoral ministries team completed a self-assessment using the JEE tool. The results of this assessment, including host country self-assessed scores for the nineteen Action Packages, were then presented to the Joint External Evaluation Team. The JEE team and host country experts then participated in a facilitated discussion to jointly assess on current strengths, areas of country which need strengthening, and priority actions; scores were developed through a process of consensus and is done in a collaborative manner, with the JEE team members and host country experts seeking agreement. Field visits by JEE team and Myanmar expert team were conducted for more accurate assessment and recommendations. Action Package scores, supporting information, and specific recommendations for priority actions are provided under the Action Package sections of this report. JEE team presented the results of the assessment and observations of the Host Country’s Health Security preparedness in the context of IHR to Minister of Health for more advices and guidance, and to senior government officials from different ministries and the WHO Country Representative as well. The following table will describe results of JEE scores by assessment.

**Table 1: Myanmar scores**

| Technical areas                                   | Indicators                                                                                                                                                                | Score    |
|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>National legislation, policy and financing</b> | p.1.1 Legislation, laws, regulations, administrative requirements, policies, or other government instruments in place are sufficient for implementation of IHR (2005)     | <b>2</b> |
|                                                   | P.1.2 The State can demonstrate that it has adjusted and aligned its domestic legislation, policies, and administrative arrangements to enable compliance with IHR (2005) | <b>2</b> |

| Technical areas                                     | Indicators                                                                                                                                               | Score |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| <b>IHR coordination, communication and advocacy</b> | P.2.1 A functional mechanism is established for the coordination and integration of relevant sectors in the implementation of IHR                        | 2     |
| <b>Antimicrobial resistance</b>                     | P.3.1 Antimicrobial resistance detection                                                                                                                 | 3     |
|                                                     | P.3.2 Surveillance of infections caused by antimicrobial-resistant pathogens                                                                             | 3     |
|                                                     | P.3.3 Health care-associated infection (HCAI) prevention and control programmes                                                                          | 1     |
|                                                     | P.3.4 Antimicrobial stewardship activities                                                                                                               | 1     |
| <b>Zoonotic diseases</b>                            | P.4.1 Surveillance systems in place for priority zoonotic diseases/pathogens                                                                             | 3     |
|                                                     | P.4.2 Veterinary or animal health workforce                                                                                                              | 3     |
|                                                     | P.4.3 Mechanisms for responding to infectious and potential zoonotic diseases are established and functional                                             | 2     |
| <b>Food safety</b>                                  | P.5.1 Mechanisms for multisectoral collaboration are established to ensure rapid response to food safety emergencies and outbreaks of foodborne diseases | 2     |
| <b>Biosafety and biosecurity</b>                    | P.6.1 Whole-of-government biosafety and biosecurity system is in place for human, animal and agriculture facilities                                      | 2     |
|                                                     | P.6.2 Biosafety and biosecurity training and practices                                                                                                   | 1     |
| <b>Immunization</b>                                 | P.7.1 Vaccine coverage (measles) as part of national programme                                                                                           | 3     |
|                                                     | P.7.2 National vaccine access and delivery                                                                                                               | 4     |
| <b>National laboratory system</b>                   | D.1.1 Laboratory testing for detection of priority diseases                                                                                              | 3     |
|                                                     | D.1.2 Specimen referral and transport system                                                                                                             | 3     |
|                                                     | D.1.3 Effective modern point-of-care and laboratory-based diagnostics                                                                                    | 2     |
|                                                     | D.1.4 Laboratory quality system                                                                                                                          | 3     |
| <b>Real-time surveillance</b>                       | D.2.1 Indicator- and event-based surveillance systems                                                                                                    | 4     |
|                                                     | D.2.2 Interoperable, interconnected, electronic real-time reporting system                                                                               | 2     |
|                                                     | D.2.3 Integration and analysis of surveillance data                                                                                                      | 3     |
|                                                     | D.2.4 Syndromic surveillance systems                                                                                                                     | 3     |
| <b>Reporting</b>                                    | D.3.1 System for efficient reporting to FAO, OIE and WHO                                                                                                 | 3     |
|                                                     | D.3.2 Reporting network and protocols in country                                                                                                         | 2     |

| Technical areas                                         | Indicators                                                                                                                                             | Score |
|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| <b>Workforce development</b>                            | D.4.1 Human resources available to implement IHR core capacity requirements                                                                            | 3     |
|                                                         | D.4.2 FETP <sup>1</sup> or other applied epidemiology training programme in place                                                                      | 3     |
|                                                         | D.4.3 Workforce strategy                                                                                                                               | 3     |
| <b>Preparedness</b>                                     | R.1.1 National multi-hazard public health emergency preparedness and response plan is developed and implemented                                        | 1     |
|                                                         | R.1.2 Priority public health risks and resources are mapped and utilized                                                                               | 1     |
| <b>Emergency response operations</b>                    | R.2.1 Capacity to activate emergency operations                                                                                                        | 2     |
|                                                         | R.2.2 EOC operating procedures and plans                                                                                                               | 1     |
|                                                         | R.2.3 Emergency operations programme                                                                                                                   | 2     |
|                                                         | R.2.4 Case management procedures implemented for IHR relevant hazards.                                                                                 | 2     |
| <b>Linking public health and security authorities</b>   | R.3.1 Public health and security authorities (e.g. law enforcement, border control, customs) are linked during a suspect or confirmed biological event | 2     |
| <b>Medical countermeasures and personnel deployment</b> | R.4.1 System in place for sending and receiving medical countermeasures during a public health emergency                                               | 1     |
|                                                         | R.4.2 System in place for sending and receiving health personnel during a public health emergency                                                      | 1     |
| <b>Risk communication</b>                               | R.5.1 Risk communication systems (plans, mechanisms, etc.)                                                                                             | 1     |
|                                                         | R.5.2 Internal and partner communication and coordination                                                                                              | 3     |
|                                                         | R.5.3 Public communication                                                                                                                             | 3     |
|                                                         | R.5.4 Communication engagement with affected communities                                                                                               | 2     |
|                                                         | R.5.5 Dynamic listening and rumor management                                                                                                           | 2     |
| <b>Points of entry</b>                                  | PoE.1 Routine capacities established at points of entry                                                                                                | 2     |
|                                                         | PoE.2 Effective public health response at points of entry                                                                                              | 2     |
| <b>Chemical events</b>                                  | CE.1 Mechanisms established and functioning for detecting and responding to chemical events or emergencies                                             | 1     |
|                                                         | CE.2 Enabling environment in place for management of chemical events                                                                                   | 1     |

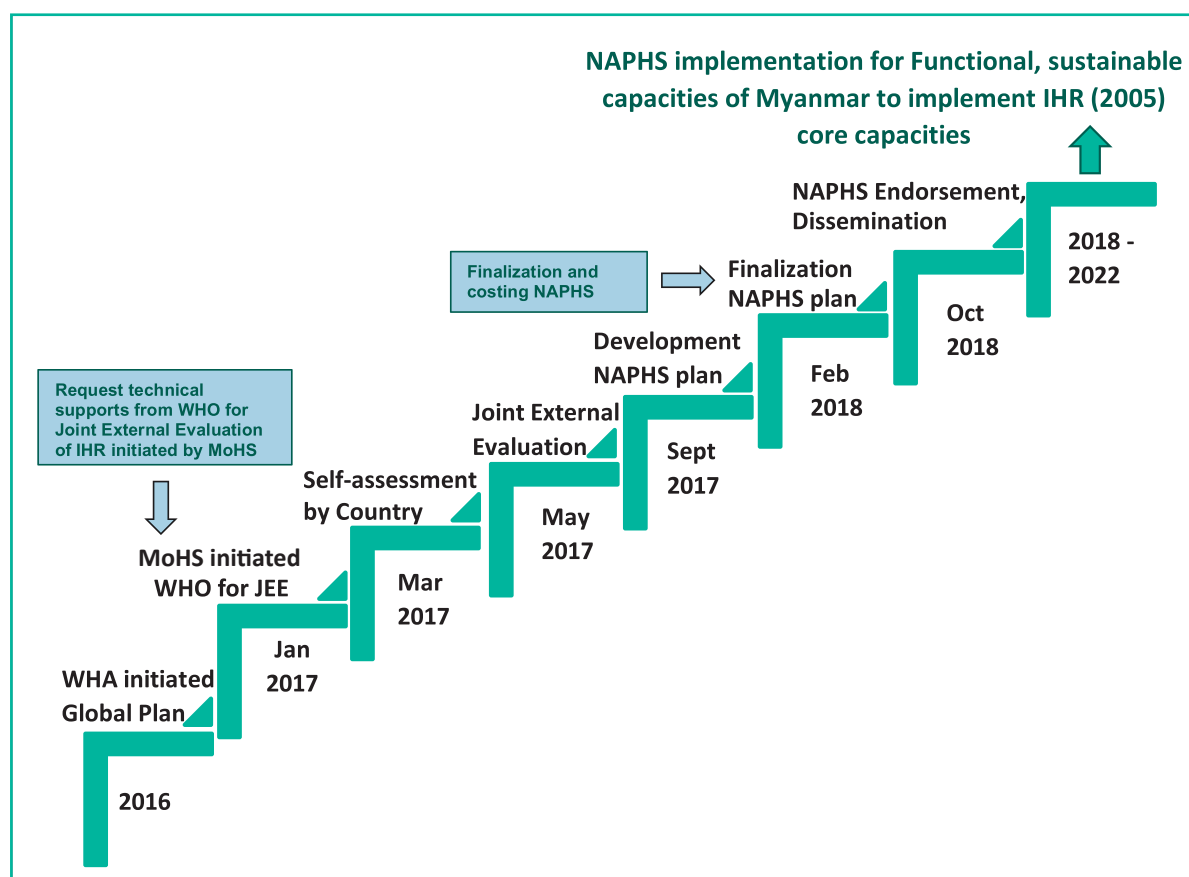
| Technical areas       | Indicators                                                                                                       | Score |
|-----------------------|------------------------------------------------------------------------------------------------------------------|-------|
| Radiation emergencies | RE.1 Mechanisms established and functioning for detecting and responding to radiological and nuclear emergencies | 1     |
|                       | RE.2 Enabling environment in place for management of radiation emergencies                                       | 1     |

Out of the 48 indicators, Myanmar has scored 2 green, 33 yellow and 13 red on the Joint External Evaluation (Figure 1.)

**Figure 1. Status of indicators**

| INDICATORS | STATUS of SCORE |
|------------|-----------------|
| 2 (4.2%)   | Green           |
| 33 (68.8%) | Yellow          |
| 13 (27.0%) | Red             |

**Figure 2. Milestones of NAPHS Development, Myanmar**



## VISION, MISSION & OBJECTIVES

### VISION:

Enjoy high level of security for their health and well-being through Universal Health Coverage and building resilient health system which can adapt and response to challenges posed by outbreaks, risks and other emergencies

### MISSION:

To strengthen and sustain national multi-sectoral capacity for preventing public health emergencies and raising public health security in line with IHR (2005).

### GOAL:

To reduce human and animal morbidity and mortality associated with all public health events or threats.

## GENERAL OBJECTIVES

1. To prevent and reduce the likelihood of outbreaks and all public health hazards and events defined by IHR (2005).
2. To promptly detect threats (due to all hazards) to save lives and ensure proper control measures.
3. To establish a functional system and mechanism for effective multi-sectoral national and international response to all public health events.
4. To establish and maintain the core capacities at designated points of entry for routine and timely detection and prompt effective response of any potential hazards.
5. To develop and sustain optimum capacity to prevent, detect and manage chemical events and radiation emergencies.
6. To strengthen linking human and animal health as “One Health Approach”
7. To function actions of legislations and formalized procedures

## Guiding Principles and Core Values for development, implementation of NPAHS

### (1) Country ownership and leadership:

As per strong initiation and commitments by Minister for MoHS, Myanmar team will provide political and technical oversight for all phases of the NAPHS (planning, implementation and, Monitoring, Supervision and Evaluation), including committing domestic resources to financing the NAPHS. In addition to these, NAPHS is formulated from findings and recommendations of joint External Evaluation and prioritized activities

based on in-country issues, available resources. Therefore, under close guidance of Minister, National Cross Government Steering Committee will take overseeing with the supports by Technical Strategy Group for Public Health Emergency and Preparedness in technical and programmatic theme.

**(2) Equity, Gender mainstreaming and Human Rights:**

As per WHO's standards and recommendation in implementation of IHR (2005) for Member State and international standards on human rights, will be taken as principles in each and every steps and process of implementation of this plan. The plan will address all population groups, regardless of their location, ethnicity, gender, age, social, economic, cultural, and political status.

**(3) Community Engagement:**

The community is a crucial unit in addressing health security for themselves and the persons around them. Individuals in households with adequate knowledge and skills about prevention of illnesses are able to take timely corrective measures and maintain a healthy lifestyle. Therefore, empowering individuals and households by reaching them through various social groupings can improve people's lifestyles which in turn can improve the individuals' overall health status. Community engagement will be through a participatory approach in development and implementation of culturally acceptable and scientifically sound risk communication strategies. Sustainable actions regarding Health Security for community will be always in active among public as a demand resulting by community engagement.

**(4) Partnership, inter-sectoral and multi-disciplinary collaboration:**

The partnership principle will be facilitated through inter-sectoral collaboration at community, levels on the one hand, and involvement of the wide spectrum of all relevant stakeholders at national level. This theme will be the main driving forces in successful and effective operation of NAPHS as the plan is multi-sectoral body for health security of country. This entails partnership with other government departments, sectors, development partners, and academia.

**(5) Efficiency:**

The implementation of this NAPHS will foster rationalization of inputs to ensure maximum outputs and outcomes and value for money (VfM) by adapting with different policies and regulations by country and funders.

**(6) One Health Approach:**

Humans and animals share the same eco-system and the opportunities for spill-over of diseases are increasing with modern trends in globalization, rapid population growth, climate change, economic development, mass urbanization, and increasing demand for animal sourced foods. One Health is an approach that addresses public health events such as high impact infectious diseases arising at the intersection of human, animal (domestic and wildlife), and environmental interface. This NAPHS is under umbrella on

the one health approach and will ensure that all phases taking into account the one health approach in line with National One health Strategic Plan.

**(7) Alignment and ensuring synergies with Myanmar National Health Plan and its' UHC:**

NAPHS's efforts to build and sustain the IHR core capacities in the Myanmar will be based integrated approaches rather than parallel to existing or ongoing ones for sustainable and resilient health systems that can cope affects from and do actions with outbreaks and other health emergencies. The implementation this plan will be done in synergy with the implementation of existing activities and strategies to Myanmar National Health Plan. So, NAPHS 5 years plan and implementation is also aligned with exiting national plans/strategies of public health diseases

**(8) Evidence led and taking into consideration innovations:**

The implementation of this NAPHS will take into account emerging trends, risks and health innovations, as well as, inter country, regional, sub-regional and cross-border cooperation to reinforce timely information sharing and coordinated interventions. These regular information and updates among stakeholder in country, region will valuable engine for further and better steps to be taken effective operation of country NAPHS.

## **SUMMARY OF OUTPUTS USED IN THE DEVELOPMENT OF THE NATIONAL ACTION PLAN**

During the preparation period, Central Epidemiological Unit (CEU), MoHS, organize to conduct self-assessment of existing capacity how much fulfill IHR core capacity and Health Security for each area by relevant ministries through leading by technical working group with technical assistance from WHO. Technical Strategic Group for Public Health Emergency & Preparedness, under National Cross Government Steering Committee, is more cooperation in practices for actions while frequent contacts among the stakeholders established.

JEE assessment, scores for each indicator in each area is key basic facts for prioritizing new activities based on gaps, weakness and needs, and relevant existing ongoing activities that are included in National Actions Plan for Health Security.

Team Members from responsible Departments, Stakeholders and development partners have formulated the objectives of each technical area with prioritized summary activity for which prioritized detailed activities are put in in the plan. JEE indicator, scores and recommendation are also applied for formulating detailed activities in planning matrix. By realizing detailed activities will result objectives of each technical area because the detailed activities are resulting of prioritization from multi-sectoral group works through doing exercise for prioritization, weakness, gaps, availability of supportive partners, funding. During group exercise and additional working after development workshop, prioritization of activities and actions came from common agreement of reasonable and suitable inputs



by each person from different designation and technical areas, policies and administration.

Estimation of required resources of human, technical, level of actions, time frame, quantity of activity actual needed, process and methodology of activity are led and done by technical experts from the most responsible department for estimation of costing and quantification of activities by each year. This process of calculating resources included mapping of supports or collaborative partners and budget availability in consideration of each time frame. Some of activities are included in different technical areas describing same objectives, persons, and some activities do same people and same place at different objectives. Synchronization of those activities among different areas are done as much as possible so that resources of budget, person and time have to be save and effectiveness, efficacy of NAPHS would be increased. It is the best outputs among multi-sectoral team members who are doing development of NAPHS how to do good consultation and consensus building process for prioritized agreement among different people. Best scenarios of doing this exercise among members is multi-sectoral approach due to working together starting from advocacy to development of NAPHS.

The activities prioritized in NAPHS are resulted additionally not only to fulfill core capacities of IHR but also linking with existing strategies (National Health Plan) and ongoing activities by different stakeholders and ministries. These will make NAPHS comprehensive and best performing with more effective and efficient outcomes.

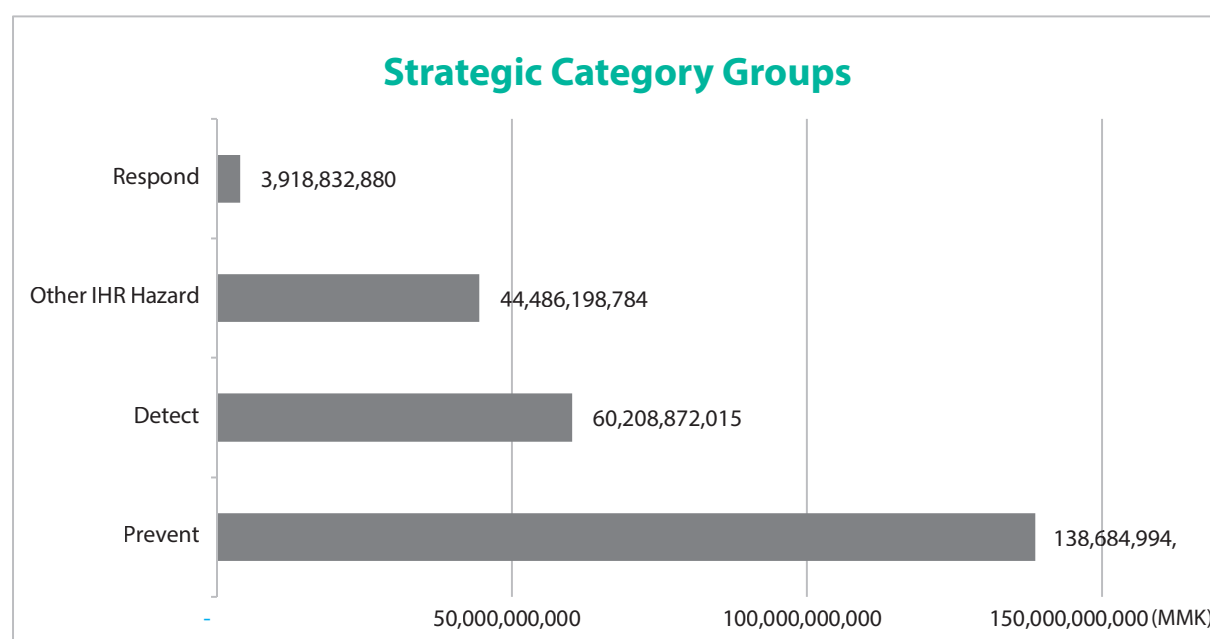
Lead department, associated ministries and development partners will operate the activities of NAPHS by further developing operation work plan for each area. This will be integrated with going national activities not only in actions but also for national budget and financing accordingly. Budget availability, confirmation and additional availability will be increased at the same time with finalization of NAPHS because mapping of development partners and budget are already included since during inception and development of phase of NAPHS. Monitoring and reporting will be conducted by implementing the new activities for monitoring, super vision and evaluation and its' mechanism that are topped up existing M & E practices, system and additional requirements activities for IHR M & E frame work.

## **PRIORITY ELEMENTS OF THE NATIONAL ACTION PLAN WITH COSTING**

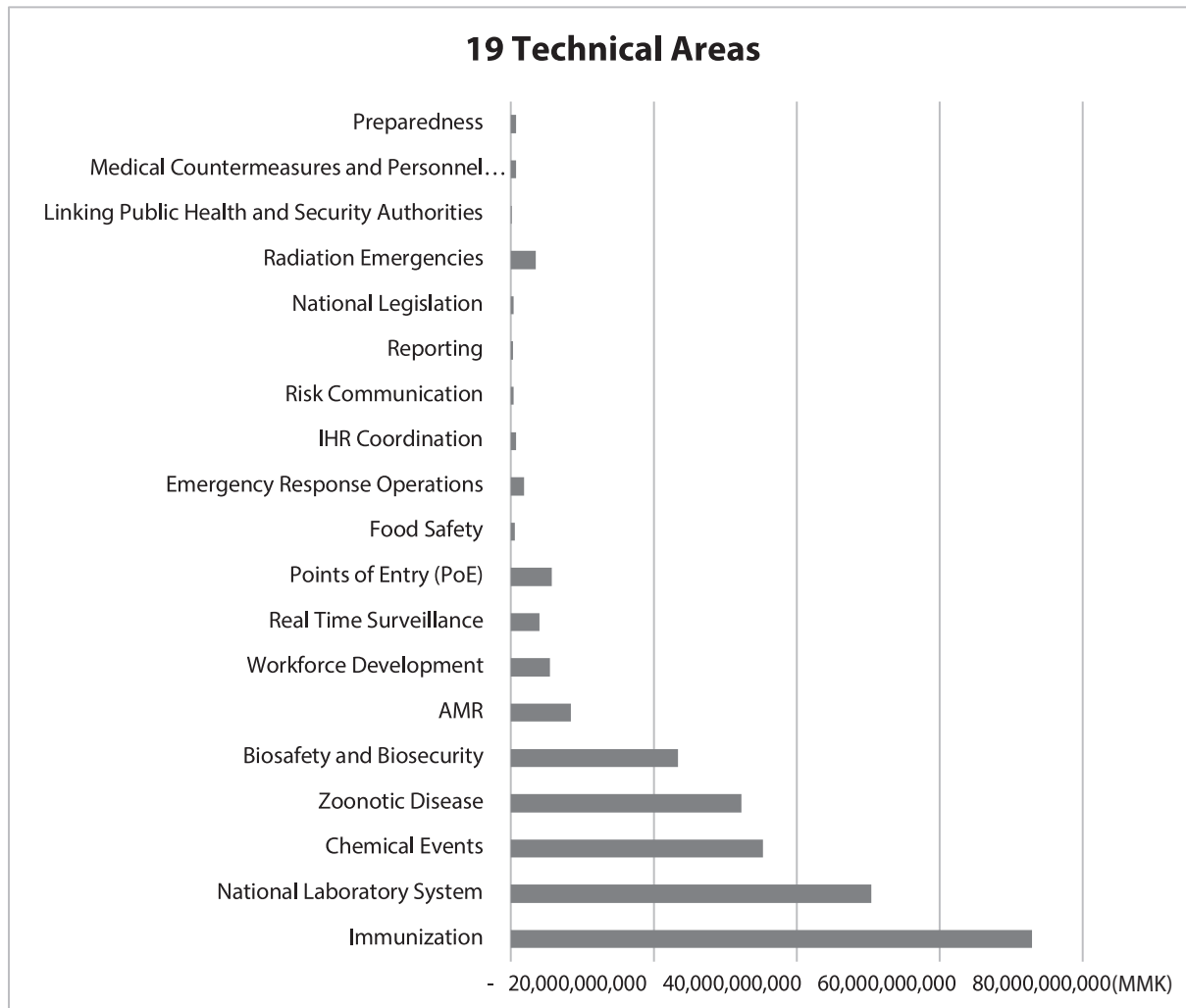
Regarding core capacity to IHR by Myanmar, technical area of Antimicrobial Resistance, biosafety and security, preparedness and some actions of emergency responses operation, Medical Counter measures, risk communication, and chemical events, radiation emergencies have low capacity. Most priorities elements falls in these technical areas above while approval of law and legislation, development, finalization of essential guidelines, training modules and capacity building trainings in other technical areas, are reflecting to fulfill the capacity competence of IHR are set as priority in NAPHS and its' important for operations. Some of development process of national plans, mechanisms, system for detection, surveillance and reporting are ongoing and in progress that are linking with implementation of NAPHS. In addition to this, activities integrated and linked with each sector strategic plan under technical area also priority element for implementation by each department as by essential cooperative efforts by multi-sectoral stakeholders. At the same time, new developments and legal framework in NAPHS are priority and required for early implementation in order

to be readiness for further consecutive and related activities implementation by time frame in NAPHS, such as, development SOP have to be under first 6 month of a year, trainings on SOP will be in during next consecutive 6 month in same year. NAPHS was developed in line with priority scores based on JEE results related IHR and country context and needs as first criteria, then taking into account funding and ongoing partners availability, and then, other activities with gaps of funding by ongoing partner are proposed to national financing as per regular budgeting 2018-19 fiscal year. Risk on inadequate human resources that multiply into tight schedule for existing manpower would create insecure and gaps for some priority activities, are also marked as priority for responsible leaders. Timely Recruitment, timely integration of national budgeting, regular mapping and advocacy to resources will be under responsibilities of lead departments for related areas. Regular updating practices during coordination and evaluation meeting or time to time updating will be one of the best ways reducing these risks. During the coordination and update mechanism such as regular or ad-hoc meetings, resources mobilization for priority elements of NAPHS would be good one as alternatives. The following are describing the elements of NAPHS and costing for 5 years.

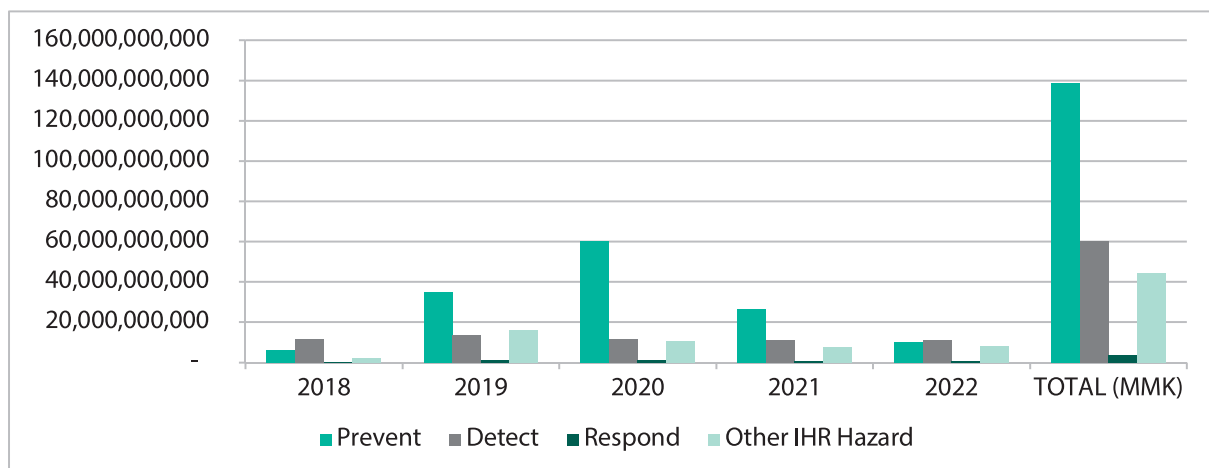
**Figure 3. Budget allocation by Technical Strategic Category of the NAPHS**



**Figure 4. Budget allocation by Technical Areas of the NAPHS**

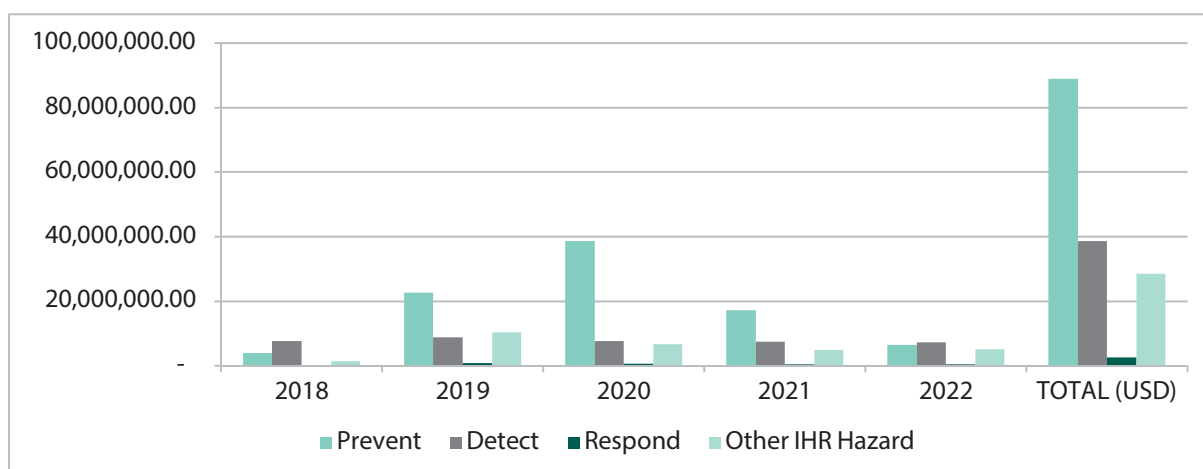


**Figure 5. Distribution of Cost by Year for Category- NAPHS (MMK)**



**Table 2: Total Cost and Cost for each Strategic Category by Year (in MMK)**

| Category\ Year     | 2018                  | 2019                  | 2020                  | 2021                  | 2022                  | TOTAL (MMK)            |
|--------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------|
| Prevent            | 6,079,325,640         | 35,258,512,122        | 60,411,368,116        | 26,689,226,305        | 10,246,561,940        | 138,684,994,122        |
| Detect             | 11,801,210,883        | 13,662,333,483        | 11,792,505,883        | 11,529,670,883        | 11,423,150,883        | 60,208,872,015         |
| Respond            | 18,875,000            | 1,315,441,620         | 1,080,101,220         | 755,809,020           | 748,606,020           | 3,918,832,880          |
| Other IHR Hazard   | 2,135,904,040         | 16,234,610,848        | 10,431,379,632        | 7,621,234,632         | 8,063,069,632         | 44,486,198,784         |
| <b>Grand Total</b> | <b>20,035,315,563</b> | <b>66,470,898,073</b> | <b>83,715,354,851</b> | <b>46,595,940,840</b> | <b>30,481,388,475</b> | <b>247,298,897,801</b> |

**Figure 6: Distribution of Cost by Year for Category- NAPHS (USD)****Table 3: Total Cost and Cost for each Strategic Category by Year (in USD)**

| Strategic Category\ Year | 2018              | 2019              | 2020              | 2021              | 2022              | TOTAL (USD)        |
|--------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
| Prevent                  | 3,897,003.62      | 22,601,610.33     | 38,725,235.97     | 17,108,478.40     | 6,568,308.94      | 88,900,637         |
| Detect                   | 7,564,878.77      | 8,757,906.08      | 7,559,298.64      | 7,390,814.67      | 7,322,532.62      | 38,595,431         |
| Respond                  | 12,099.36         | 843,231.81        | 692,372.58        | 484,492.96        | 479,875.65        | 2,512,072          |
| Other IHR Hazard         | 1,369,169.26      | 10,406,801.83     | 6,686,781.82      | 4,885,406.82      | 5,168,634.38      | 28,516,794         |
| <b>Grand Total</b>       | <b>12,843,151</b> | <b>42,609,550</b> | <b>53,663,689</b> | <b>29,869,193</b> | <b>19,539,352</b> | <b>158,524,934</b> |

## IMPLEMENTATION OF ACTION PLAN WITH TIMEFRAME

Implementation of NAPHS will be under guiding principles and core values described in above and one health approach of cooperative mechanism and practices will be main theme to ensure effectiveness to reach objectives and outcomes by monthly, bi-annually, annually monitoring and evaluation. Implementation of the planned activities will be delivered at each national, state and region, district and township level according to priority and relevancy that is agreed and planned during development phase. Leading roles and ownership for each activity have been already identified since development and described in NAPHS. National Cross Government Committee and Public Health Emergency and Preparedness Technical Strategic Group always encourage regular monitoring. The stakeholders with leading role will be responsible for managing and working together with the relevant officials at National, sub-national, district and township level for efficient operation of activities in time. Cross Government Committee will monitor regular coordination at each level for implementation by using mechanism such as meetings and systems developed, while leading ministry organizing the implementation of activities at each level. Operational work plan by sequence of activities with time frame will be outlined by lead ministry for each area to ensure fulfill gaps for immediate and long term orders. Operational work plan will be shared among multi-sectoral partners as supportive purpose if it is needed. Quantitative achievements from inputs of activities and verifiable objectives will be used for evaluation of each activity and its' outcome by realization of NAPHS accordingly and these evaluation are in line with indicators of IHR M & E frame work. Assessment of intended impact from operating of NAPHS will be after 3 year and 5 year life of NAPHS through evaluation by JEE and internal M & E evaluation system, how much Country's core capacity increase in line with IHR and health security of Myanmar. Operation of regular evaluation and coordination meeting, advocacy meeting and awareness raising through distribution and dissemination of information, education, communication material and channels while multi-sectoral ministries, development partners and stakeholders are implementing the activities of NAPHS, that will ensure promoting awareness among stakeholders and community describing gaps, budget, weakness, constraints and challenges for resources mapping and its mobilization.

## References:

1. Myanmar Census Report 2014, Ministry of Immigration and Population, Myanmar, retrieved from [www.themimu.info](http://www.themimu.info)
2. World Bank Report retrieved from [www.worldbank.org/en/country/Myanmar](http://www.worldbank.org/en/country/Myanmar) on October 31, 2018.
3. Reports of completed and finalized NAPHS, 2018. Department of Public Health, Ministry of Health and Sports, Myanmar.
4. Joint External Evaluation Report, Myanmar, 2017. World Health Organization. Available on <https://www.who.int/ihr/publications>
5. Presentations and Proceedings from workshops conducted in May 2017 and February 2018, Department of Public Health, Ministry of Health and Sports, Myanmar.
6. International Health Regulations (2005). 2008. World Health Organization. Available on <https://www.who.int/ihr/>
7. Documentation of NAPHS development Workshop conducted in February 2018 and October 2018.
8. Myanmar National Health Plan (2017-2021), 2017. Ministry of Health and Sports. Available on [www.mohs.gov.mm](http://www.mohs.gov.mm).
9. Multi Year Plan, Expanded Program Immunization (2017-2021), Department of Public Health, Ministry of Health and Sports
10. NAPHS Narrative Report, Ministry of Health. State of Eritrea. 2017. Available on <https://extranet.who.int>
11. Report of WHO Health Sector Review 2014. World Health organization.

## ANNEXES

### ANNEX I:

#### Situation Analysis, Summary of Country Assessment and Plans relevant to IHR

#### LIST OF KEY RECOMMENDATION / PRIORITY ACTIONS FOR EACH TECHNICAL AREA

#### PREVENT

##### 1. National Legislation, Policy and Financing

- Myanmar should ensure that in the revised laws and regulations both from human health and animal health that the country is planning to present to the parliament, have legislations and regulation that support strengthening the IHR capacities implementation in the country.
- Myanmar needs to continue the best practice of having cross border level MoU between Thailand and Myanmar. The practices should be continued with other neighboring countries.

##### 2. IHR Coordination, Communication and Advocacy

- Establishment of an overarching cross government steering committee to oversee global health security activities through an all hazards approach.
- Development of multi-sectoral, multidisciplinary coordination and communication mechanisms; and action plans through this overarching committee

##### 3. Antimicrobial Resistance

- Raise awareness among the general public on AMR and among health care workers in human and animal health sectors on surveillance, prudent use of antimicrobials and the importance of good practices
- Increase laboratory capacity on AMR, both in the human and animal health sector and share AMR data across the sectors
- Cooperate in a One Health approach between sectors at local, regional and national levels on AMR

##### 4. Zoonotic Disease

- Endorse and implement the national One Health strategic framework and action plan of Myanmar (2016-2019)
- Establish information sharing systems, joint simulation exercises and formal coordination mechanisms between LBVD and DoPH
- Expand the animal health workforce and organise continuous education for the existing workforce on local, regional and national levels



## 5. Food Safety

- Establish a multi-sectoral strategy for a national food safety management and surveillance system from farm to fork
- Implement food safety control management systems based on multi-sectoral involvement in risk profiling of food safety problems
- Activate a transparent communication mechanism between all public and private food safety stakeholders

## 6. Biosafety and Biosecurity

- Develop national biosecurity and biosafety legislation, regulations or frameworks
- Undertake a comprehensive training needs assessment across human, animal and agricultural sectors
- Establishing funding and ensuring sustainability for supporting comprehensive national biosafety and biosecurity system

## 7. Immunization

- Conduct an EPI coverage survey
- Develop a strategy/plan to cover the low coverage areas
- Strengthen Human Resources capacity for supply, operations and mid-level management/ supervision
- Develop communication plan for demand generation

# DETECT

## 1. National Laboratory System

- Establish and maintain systematic collaboration between human and animal health laboratories, the national laboratory system should be considered one entity
- Endorse and implement the National Strategic Plan for Health laboratories (currently drafted)
- Developing national testing guidelines for clinicians and veterinarians based on financial and practical factual constraints to maximize the capacity for case diagnosis, indicative surveillance and outbreak contexts
- Improve simple testing capability in remote areas, including point of care diagnostics and harvesting the flora of new combined lateral flow tests on the market, but under tight quality control by the central laboratory.

## 2. Real-Time Surveillance

- Indicator based surveillance needs to include capacity building among primary

responders and provide education and follow-up of adherence.

- A one-health approach encompassing human, animal and wildlife surveillance should be considered.
- Review CD laws for IHR, review surveillance systems (indicative and event triggered), including list of notifiable diseases and syndromes
- Look for possible bias in systematic data collection caused by geographical factors, capacity limits and knowledge among stakeholders

### 3. Reporting

- Establish written processes and protocols for identifying and reporting potential PHEIC up to central level MOHS / NFP.
- Improved workforce capability and awareness, including IHR responsibilities, risk assessment and reporting of a potential PHEIC, for human and animal health sectors (at national and subnational levels)
- Ensure regular, systematic information sharing between human and animal health sectors
- Improve Information Communications Technology (ICT) for reporting and information sharing

### 4. Workforce Development

- To develop a HR strategic plan for next 5 years after evaluating existing HR strategic plan. This includes development of HR data base with tracking facilities
- To increase health personnel stock level in line with Sustainable Development Goal (SDG) targets
- To train more epidemiologists, biostatisticians and social scientists abroad or set up in-country training for those specialities which facilitate further strengthening of IHR core capacities .

## RESPOND

### 1. Preparedness

- Develop a national multi-hazard public health emergency preparedness and response plan, which should include processes for funding, managing, and mobilizing emergency resources.
- Undertake a National Risk Assessment and Resource Mapping, and update as needed

### 2. Emergency Response Operations

- Identify and assign permanent staff for the PH EOC within an IMS structure, along with job descriptions and appropriate training

- Develop a PHEOC plan / handbook with associated SOPs
- Initiate an exercise and continuous improvement programme for emergency preparedness and response by conducting at least one table-top and one functional exercise per year to reinforce IMS personnel training, skills and EOC operations.
- Develop SOPs for response operations, daily functions, managing cases of infectious patients, including at the points of entry

### **3. Linking Public Health and Security Authorities**

- Develop a Memorandum of Understanding (MOU) or other agreement between public health and security organizations, which defines the criteria that trigger immediate sharing of information.
- Develop SOPs for joint public health and security risk assessment of potential deliberate biological incidents that have both public health and security ramifications, as well as for implementing the information sharing MOU.
- Develop a joint exercise program between public health and security authorities that tests and improves plans and procedures.

### **4. Medical Countermeasures (MCM) and Personnel Deployment**

- Develop a national plan for identifying procedures and decision making related to sending and receiving medical countermeasures during public health emergencies
- Improving access to in-place stockpiles of countermeasures matching the risks that you foresee
- Develop a national plan for identifying procedures and decision making related to sending and receiving health personnel during public health emergencies

### **5. Risk Communication**

- Develop an all-hazards national risk communications plan
- Establish suitable funding to implement national risk communications plan and functions
- Ongoing assessment of the effectiveness of public information messaging, including formalizing system for feedback and adjusting messaging as appropriate
- Establish proactive and ongoing engagement with communities in areas where engagement is currently limited, to help inform messaging and risk assessment

## **OTHER**

### **1. Points of Entry**

- Develop and implement an encompassing National Public Health Emergency Contingency Plan for the designated points of entry and link it with the national

public health emergency plans.

- Human resource capacity building and plan including for the animal health staff and staff at the ground crossings.
- Conduct a formal evaluation for the PoEs core capacities and response to likely public health emergencies.
- Establish/improve measures for vector control, safe environment and animal quarantine at the designated PoEs

## 2. Chemical Events

- Finalize and approve the national CBRN contingency plan, which defines authorities, roles, and responsibilities across the whole of government for chemical event surveillance, alert, and response
- Develop SOPs for chemical event detection, assessment, and response operations
- Develop an integrated national chemical surveillance system, which incorporates lab analysis and centralized reporting of chemical events to the national PHEOC

## 3. Radiation Emergencies

- Finalize and approve the national CBRN contingency plan, which defines authorities, roles, and responsibilities across the whole of government for radiological event surveillance, alert, and response (to include designating a radiological / nuclear focal point for coordination and communication with the IHR NFP)
- Develop SOPs for radiation detection, assessment, and response operations
- Develop an integrated national radiological surveillance system, which incorporates lab analysis and centralized reporting of radiological events to the national PHEOC

## ANNEX II:

### DOCUMENTATION OF WORKSHOP FOR PLANNING OF NATIONAL ACTION PLAN FOR HEALTH SECURITY

#### First Development Workshop

**Date:** 13-15 September 2017

**Place:** Mingalar Thiri Hotel, Nay Pyi Taw, Myanmar

#### Background/Context/Recommendations/Next Steps:

Following the results of the JEE report, the government of Myanmar requested WHO support in developing the National Action Plan for Health Security (NAPHS). Myanmar is the first country in SEARO to launch NAPHS with integrated budgets. This shows

strong commitment and domestic/country ownership of the health security and sets a good example for other SEARO countries to follow suit. The three levels of WHO (HQ, RO, CO) will continue its effort to support Myanmar finalizing the NAPHS and turn into actions.

The three day multi-stakeholder workshop, which brought together 62 participants including Myanmar's officials (Permanent Secretary MOHS, DG and DDG, other head of agencies and authorities), partners and donors (PREDICT, FAO, UK, WB, USAID, ADB, JICA), institutions, and academia relevant for ensuring effective collaborations on health security.

The meeting was led by the MoHS with support by WHO, outlined process steps and resulted in a first draft action plan covering key priority activities to prevent, detect, respond and other IHR-related hazards and PoE. Based on the substantial progress made during the workshop, the necessary steps to follow were agreed upon: the Myanmar government will send the draft NAPHS to respective department for approval with a clear focus on strengthening the IHR core capacities. Further comments will be compiled into the draft NAPHS and send to WHO. Together with the support of WHO and other partners, the Costed NAPHS will be finalized. The Costed NAPHS is proposed to be disseminated by March 2018.

## Second Development Workshop

**Date:** 26-28 February 2018

**Place:** Mingalar Thiri Hotel, Nay Pyi Taw, Myanmar

### Background/Context:

Changing interactions among human, animal and the environment in recent years has result in increasing emergence and re-emergence of infectious diseases, natural disasters and other public health emergencies of international concerns across the world. WHO Member States have agreed to work together to strengthen prevention, detection and response to public health emergencies under the International Health Regulations (2005). As a Member State, Myanmar has carried out Joint External Evaluation of IHR to assess the country's capacity under the IHR to prevent, detect, and rapidly respond to public health threats in May 2017.

Based on the findings and recommendations of JEE, the Ministry of Health and Sports (MoHS), Myanmar, has initiated development of five-year National Action Plan for Health Security with WHO's technical support. A World Health Assembly (WHA)'s decision in May 2016 requested WHO to develop a global implementation plan that included immediate planning to improve delivery of the International Health Regulations (2005). The Global Action Plan recommends that Member States, with the support of WHO and development partners, develop and implement 5 year national action plans. Member States have also agreed to work towards Universal Health Coverage and to build resilient health systems which can adapt and respond to challenges posed by outbreaks and other emergencies.

## Myanmar National Action Plan for Health Security Costing Workshop

Myanmar is the first country in SEAR that has developed NAPHS. The workshop on NAPHS costing was organized by the MoHS in Nay Pyi Taw, Myanmar, 26-28 February 2018. About 65 participants including High level officials, facilitators from 40 multi-disciplinary and multi-sectoral experts from MoHS and relevant ministries, and development partners such as WHO, FAO, US CDC, USAID, JICA, PHE, DFID, World Bank, ADB and PREDICT contributed technical expertise to the development of the plan and overall meeting execution. The relevant ministries involved in NAPHS development are Ministry of Agriculture Livestock and Irrigation, Department of Civil Aviation, Myanmar Port Authorities, Myanmar Port Authorities, Department of Customs, Department of Immigration, Department of Forestry, Ministry of Defence, Ministry of Foreign Affairs, Myanmar Police Force, General Administration Department, Department of Atomic Energy (TL), Department of Relief and Resettlement and City Development Committee.

The main objective of the workshop was to finalize planned activities and to cost a 5-year National Action Plan for Health Security, based on the JEE recommendations and other complementary assessments and national strategic plans. Priority activities were framed taking into account One Health, health system strengthening and whole of government approaches. The Ministry of Health and Sports in collaboration with relevant ministries and development partners reviewed previous planning documents to finalize proposed activities and ensuring the linkage with on-going national strategies and guidelines, such as the National Health Plan, National Action Plan for Antimicrobial Resistance, National Strategic Plan for Health Laboratory, Biosafety and Biosecurity guideline, One Health Strategic plan and National Risk Communication Plan.

The main outcome of the meeting was the draft Myanmar National Action Plan for Health Security and costed work plan, with key priorities and cost drivers identified for detailed costing and time bound milestones and targets for a phased implementation. In addition, almost all of the participants have learned costing tool of NAPHS and worked out on the costing on their own. This is also a significant achievement of the workshop. The plan will be a coordination platform to map and ensure interplay between multiple sectors and other existing plans at all administrative levels of the country.

The meeting highlighted the commitment of the Government of Myanmar and development partners such as ADB to strengthen health security, the importance of national financing for sustainability, the role of private sector engagement and the importance of resilient health systems in health security. The meeting further emphasized strong country ownership, WHO leadership and active partnership to develop and implement the National Action Plan and to match resources to gaps. The government, donors and technical partners expressed their collaborative support to take forward the National Action Plan for Health Security in Myanmar.

### Recommendations:

1. Prioritize the finalization of the National Action Plan for Health Security: both the narrative and the costed workplan, aligning high level objectives with costs and

scoring of JEE.

2. Align activities to the desired outcome indicators to have measurable data for monitoring and evaluation of the plan.
3. Cross-check activities across 19 technical areas to ensure integrating of One Health approach in NAPHS without overlapping the activities.
4. Implementation of NAPHS should focus on sub-national level to enhance capacity of states/regional level health care system.
5. NAPHS should link strategically with Myanmar Sustainable Development Plan. This linkage would help to ensure integration of NAPHS in national financing programme resulting in effective communication with Development Assistance Coordination Unit and MoPF.
6. Ministry of Planning and Finance suggested the MoHS to share costed NAPHS including potential funding source and to prioritize activities for implementation when the MoHS submits NAPHS to MoPF for financing.
7. Costed NAPHS should be in line with Myanmar budget year.
8. ADB has committed that their GMS project would contribute towards nearly 10% of NAPHS implementation.
9. Establish a robust monitoring & evaluation mechanism to ensure timely and effective implementation of planned activities and milestones.
10. Existing Technical Strategy Group for Public Health Emergency & Preparedness in Myanmar Health Sector Coordination Committee can be a good platform for overseeing the implementation of NAPHS.

### Next Steps:

1. Share the draft costed NAPHS within MoHS and with relevant ministries by second week March 2018.
2. Consolidate the comments from key focal points from MoHS and relevant ministries by May 2018.
3. Finalize the costed NAPHS under the leadership of Central Epidemiology Unit, MoHS in collaboration with relevant ministries and partners in June 2018.
4. Submit and obtain high level Government's endorsement of NAPHS in July 2018.
5. Disseminate the costed NAPHS in August 2018.
6. Launch and initiate resource mobilization efforts for NAPHS in 2018.
7. Submit the NAPHS and budget for inclusion in 2019 national budget in 2018.
8. Implement, Monitor and Evaluate NAPHS: 2018-2022.



**Table 4. Participant List for workshops:**

| Sr. | Participant               | Designation                               | Organization                                                 |
|-----|---------------------------|-------------------------------------------|--------------------------------------------------------------|
| 1   | Prof. Dr. Thet Khaing Win | Permanent Secretary                       | Ministry of Health and Sports (MoHS)                         |
| 2   | Dr. Thar Tun Kyaw         | Director General                          | Ministry of Health and Sports                                |
| 3   | Dr. Than Tun Aung         | Deputy Director General (Disaster)        | Department of Public Health (DoPH), MoHS                     |
| 4   | Prof. Dr. Htay Htay Tin   | Deputy Director General (NHL)             | Department of Medical Services, MoHS                         |
| 5   | Dr. Thaung Hlaing         | Deputy Director General (Public Health)   | Department of Public Health (DoPH), MoHS                     |
| 6   | Dr. Thet Thet Mu          | Deputy Director General (HMIS)            | Department of Public Health (DoPH), MoHS                     |
| 7   | Dr. Thandar Lwin          | Deputy Director General (Disease Control) | Department of Public Health (DoPH), MoHS                     |
| 8   | Dr. Win Naing             | Deputy Director General (PSM)             | Ministry of Health and Sports (MoHS)                         |
| 9   | Prof. Dr. Soe Lwin Nyein  | Technical Advisor to Union Minister       |                                                              |
| 10  | Dr. Htun Tin              | Director (Epidemiology)                   | Department of Public Health, MoHS                            |
| 11  | Dr. Win Thein             | Director, NHL                             | National Health Laboratory, Department Medical Service, MoHS |
| 12  | Dr. Moe Khaing            | Director (Medical care)                   | Department of Medical Services                               |
| 13  | Dr. Phyu Phyu Aye         | Director (HLPD)                           | Department of Public Health, MoHS                            |
| 14  | Dr. G Seng Taung          | Director (Planning)                       | Department of Public Health, MoHS                            |
| 15  | Dr. Aung Moe              | Director                                  | Department of Atomic Energy, Ministry of Education           |
| 16  | Lt. Col Khine Zaw Oo      | Head of Department                        | Defence Service Medical Research                             |
| 17  | Lt. Col Moe Kyaw          |                                           | Defence Service Medical Research                             |
| 18  | Dr. Thin Thin Nwe         | Deputy Regional Public Health Director    | Regional Public Health Department, Mandalay, MoHS            |

| Sr. | Participant              | Designation        | Organization                                                                                                 |
|-----|--------------------------|--------------------|--------------------------------------------------------------------------------------------------------------|
| 19  | Dr. Min Thein Maw        | Director           | Livestock, Breeding, Veterinary Department (LBVD), Ministry of Agriculture, Livestock and Irrigation (MoALI) |
| 20  | Dr. Ye Min Htwe          | Deputy Director    | NIMU, MoHS                                                                                                   |
| 21  | Dr. Lwin Lwin Oo Hlaing  | Deputy Director    | Department of Medical Services, MoHS                                                                         |
| 22  | Dr. Mya Mya Aye          | Deputy Director    | Department of Medical Research, MoHS                                                                         |
| 23  | Dr. Sabei Htet Htet Htoo | Deputy Director    | Dpt. of FDA, MoHS                                                                                            |
| 24  | Dr. Hnin Nandar Kyaw     | Deputy Director    | Dpt. of Food and Drug Administration, DoPH, MoHS                                                             |
| 25  | Daw Aye Aye Maw          | Deputy Director    | Chemical Examiner Office, Myanmar Police Force                                                               |
| 26  | Dr. Aye Mya Aung         | Deputy Director    | Department for Human Resource for Health, MoHS                                                               |
| 27  | Dr. Khin Khin Gyi        | Deputy Director    | Central Epidemiology Unit, DoPH, MoHS                                                                        |
| 28  | Dr. Toe Thiri Aung       | Deputy Director    | Central Epidemiology Unit, DoPH, MoHS                                                                        |
| 29  | Dr. Nyan Win Myint       | Deputy Director    | Central Epidemiology Unit, DoPH, MoHS                                                                        |
| 30  | Dr. Khin Sanda Aung      | Deputy Director    | Central Epidemiology Unit (CEU), DoPH, MoHS                                                                  |
| 31  | Dr. Aung Kyaw Moe        | Deputy Director    | EPI, DoPH, MoHS                                                                                              |
| 32  | Dr. Thu Zar Lwin Oo      | Deputy Director    | Department of Atomic Energy, Ministry of Education                                                           |
| 33  | U Soe Nyunt Hlaing       | Deputy Director    | Union Attorney General Office                                                                                |
| 34  | U Than Oo                | Deputy Director    | Ministry of Information                                                                                      |
| 35  | Dr. Sai San Mya          | Assistant Director | Food and Drug Administration, DoPH, MoHS                                                                     |
| 36  | Dr. Aung Soe Htet        | Assistant Director | IRD, MoHS                                                                                                    |
| 37  | Dr. Aung Naing Oo        | Assistant Director | EPI                                                                                                          |

| Sr. | Participant          | Designation        | Organization                                                     |
|-----|----------------------|--------------------|------------------------------------------------------------------|
| 38  | Dr. Phyu Win Thant   | Assistant Director | NIMU                                                             |
| 39  | Dr. Thet Wai Nwe     | Assistant Director | IHR/ CEU                                                         |
| 40  | Dr. Kyaw Khine San   | Assistant Director | Disaster, DoPH, MoHS                                             |
| 41  | Dr. Aye Lwin         | Assistant Director | CEU, DoPH, MoHS                                                  |
| 42  | Dr. May Wint Wah     | Assistant Director | Public Health Laboratory, Mandalay                               |
| 43  | Dr. Sanda Aung       | Assistant Director | Medical Care                                                     |
| 44  | Dr. Thinzar Aung     | Assistant Director | CEU, DoPH, MoHS                                                  |
| 45  | Dr. Ei Ei Zar Nyi    | Assistant Director | CEU                                                              |
| 46  | Dr. Htoo Myint Swe   | Assistant Director | Planning, DoPH, MoHS                                             |
| 47  | Dr. Aung Myat Htay   | Assistant Director | CEU                                                              |
| 48  | Dr. Yan Linn Aung    | Assistant Director | CEU                                                              |
| 49  | Dr. San Kyu Kyu Aye  | Lecturer, PSM, UMM | Preventive and Social Medicine, University of Medicine, Mandalay |
| 50  | Daw Swe Swe Win      | Assistant Director | General Administrative Department                                |
| 51  | Daw Thida Aung       | Assistant Director | Department of Immigration                                        |
| 52  | Daw Khaing Mon Kyaw  | Assistant Director | Chemical Examiner's Office, Myanmar Police Force                 |
| 53  | U Nay Win            | Assistant Director | Department of Agriculture                                        |
| 54  | Dr. Lin Lin Bo       | Assistant Director | LBVD, MoALI                                                      |
| 55  | Dr. Hein Zeya        | Assistant Director | Nay Pyi Taw City Development Council                             |
| 56  | Dr. Phyu Sin Thein   | Head of Department | Disease Prevent Control Unit, DSMR                               |
| 57  | U Soe Naing          | Assistant Director | General Administration Department                                |
| 58  | Daw Thandar          | Assistant Director | Union Attorney General Office                                    |
| 59  | Dr. Sai Myo Nyunt    | Medical Officer    | CEU, DoPH, MoHS                                                  |
| 60  | Dr. Nyan Htet Lwin   | Chief Officer      | Port Health, Yangon, DoPH, MoHS                                  |
| 61  | Dr. Yin Min Min Htut | Medical Officer    | Planning, DoPH, MoHS                                             |

| Sr. | Participant                   | Designation                                            | Organization                                     |
|-----|-------------------------------|--------------------------------------------------------|--------------------------------------------------|
| 62  | Dr. Kyaw Kyaw Naing           | Medical Officer                                        | EPI, DoPH, MoHS                                  |
| 63  | Dr. Aung Thu                  | Medical Officer                                        | CEU, DoPH, MoHS                                  |
| 64  | Dr. May Pyone Myint           | Medical Officer                                        | CEU, DoPH, MoHS                                  |
| 65  | Dr. B La Tawng                | Medical Officer                                        | CEU, DoPH, MoHS                                  |
| 66  | Dr. Myat Pwint Phyu           | Medical Officer                                        | CEU, DoPH, MoHS                                  |
| 67  | Dr. Zaw Myo Latt              | Medical Officer                                        | CEU, DoPH, MoHS                                  |
| 68  | Dr. Zin Ko Ko Chit            | Medical Officer                                        | CEU, DoPH, MoHS                                  |
| 70  | Dr. Min Thein Aung            | Medical Officer                                        | CEU, DoPH, MoHS                                  |
| 71  | Dr. Zaw Ye Htut               | Medical Officer                                        | OEH, DoPH, MoHS                                  |
| 72  | Deliver Htwe                  | Research Officer                                       | Department Medical Research                      |
| 73  | Dr. Aung Tun                  | Research Officer                                       | LBVD                                             |
| 74  | Daw Ei Ei Mon                 | Assistant Officer                                      | Chemical Examiner's Office, Myanmar Police Force |
| 75  | Daw Khin Thet Win             | Assistant Staff Officer                                | Myanmar Police Force                             |
| 76  | Dr. Stephan Paul Jost         | WHO Representative to Myanmar                          | World Health Organization                        |
| 77  | Dr Ludy Prapancha Suryantoro  | Team Leader, WHO HQ                                    | World Health Organization                        |
| 78  | Dr. Jostacio M. Lapitan       | Technical Officer, WHO HQ                              | World Health Organization                        |
| 79  | Dr. Glenn Pierre Maesa LOLONG | Technical Officer, WHO HQ                              | World Health Organization                        |
| 80  | Dr. Maung Maung Than Htike    | Technical Officer, WHO SEARO                           | World Health Organization                        |
| 81  | Dr. Mya Yee Mon               | National Professional Officer                          | World Health Organization                        |
| 82  | Dr. Tint Maw                  | National Consultant                                    | World Health Organization                        |
| 83  | Ms Hnin Hnin Pyne             | Senior Human Development Specialist                    | World Bank                                       |
| 84  | Dr. Si Thu                    | M&E Consultant                                         | World Bank                                       |
| 85  | U Min Thu                     | Consultant                                             | World Bank                                       |
| 86  | Dr. Nu Nu Khin                | Program Management Specialist (Health Program Manager) | USAID                                            |

| Sr. | Participant          | Designation                           | Organization          |
|-----|----------------------|---------------------------------------|-----------------------|
| 87  | Mr. Ben Zinner       | Deputy Director (Health)              | USAID                 |
| 88  | Mr. Ikana Nozaki     | Representative                        | JICA                  |
| 89  | Mr. David Hadrill    | Country Team Leader                   | FAO                   |
| 90  | Ms. Emmeline Buckley | Project manager, Global Public Health | Public Health England |
| 91  | Dr. Wai Lwin         | Health Advisor                        | DFID                  |
| 92  | Dr. Ohnmar Aung      | Project Coordinator                   | PREDICT               |
| 95  | Dr Ohn Kyaw          | One Health Coordinator                | FAO                   |
| 96  | Dr. Ei Ei Khin       | Consultant                            | US CDC                |
| 97  | Dr. Kyi Thar         | Consultant                            | ADB                   |
| 98  | Dr. Myat Kyaw        | Deputy Chief Technical Advisor        | GMS – HS Project      |
| 99  | Dr. Tay Zar Soe      | M & E Consultant                      | GMS – HS Project      |

## ANNEX III:

### ROLES AND RESPONSIBILITIES

#### National Cross Government Steering Committee for Health Security

Myanmar needs to prevent, protect, control and provide response to public health risks, effect of diseases including international spread of disease assuring Health Security of Myanmar people. Development and effective implementation of five year National Action Plan for Health Security is essential to fulfil this needs. So, National Cross Government Steering Committee will do overseeing the progress and effectiveness of realization of NAPHS through working with Public Health Emergency and Preparedness Technical Strategic Group. This Committee was proposed to form and will be active with endorsement of its' members and functions.

#### Proposed functions of the National Cross Government Steering Committee for Health Security

The National Cross Government Steering Committee for Health Security will have the following roles and functions:-

- Provide policy, decision making and strong commitments
- Ensure cooperative efforts among multi-sectoral and disciplinary to as a "One"
- Provide strategic leadership in the development, implementation and sustainability of health and wellbeing of people, animals and the environment

- Provide strategic advice, support and assistance in the implementation of the five years strategic plan
- Monitor identified and emerging risks and provide guidance on their prevention, mitigation and management
- Recognize barriers and enablers to fully implement the strategic plan
- Mobilize resources
- Monitor the implementation of the strategic plan
- Monitor the budget and expenditure of the program
- Establish committees at different levels of implementation, including Technical Working Group at National level.

### **Role of individual members of the National Steering Committee for Health Security**

The role of the individual members of the National Steering Committee for Health Security is as follows:

- attending regular meetings and actively participating in the committee's work
- Provide interest and commitments to representing ministry for NAPHS
- a genuine interest in the initiatives and the outcomes being pursued in the program
- being an advocate for the program's outcomes
- being committed to, and actively involved in, pursuing the program's outcomes

### **General Membership**

**The National Cross Government Steering Committee for Health Security shall be comprised of:**

- Union Minister for Ministry of Health and Sports
- Union Minister for Ministry of Agriculture, Livestock and Irrigation
- Union Minister for Ministry of Natural Resource and Environmental Conservation
- Union Minister for Ministry of Labour, Immigration and Population
- Union Minister for Ministry of Planning and Finance
- Union Minister for Ministry of Education
- Union Minister for Ministry of Transport & Communications
- Union Minister for Ministry of Defence
- Union Minister for Ministry of Social Warfare, Relief and Resettlement
- Union Minister for Ministry of Home Affairs

- Union Minister for Ministry of Information
- Union Minister for Ministry of Foreign Affairs
- Union Minister for Ministry of Transport and Communication
- Member form Union Attorney General Office
- Representative from WHO
- Representative form UN agencies
- Representatives from other development partners

## ANNEX IV:

### Implementation with Monitoring and evaluation of the plan

Monitoring, Supervision and Evaluation of implementation of the National Action plan for Health Security will be carried throughout its' life of plan, through the systems, mechanisms and approaches identified below, according the major elements of the global IHR M&E framework. In addition, the major indicators will be in further development within M&E frame works and plan NAPHS that will be in line with IHR M & E frame work, existing M & E frame work in each areas and M & E frame work Myanmar National Health Plan intending ways to UHC. The focal person for each area will conduct monitoring, supervision and evaluation for implementation of activities in each area in collaboration with National Cross Government Steering Committee and National Focal Point of IHR regularly and periodically. These M & E action will be integrating and cooperating the existing ongoing program and activities as much as possible in order to utilize less resources.

#### o **Monitoring for activity progress or achievement of NAPHS Plan**

National Cross Government Steering Committee (NCGSC) and National Focal Points of IHR (NFP) and technical area focal lead will monitor progress of activities implementation by time by time and as necessary in ad hoc. Technical area focal lead will use the Activity Monitoring table regularly. By using this table, the progress or behind of the activity against the planned is clearly seen and can be used as desktop for progress monitoring as out of process by NAPHS. During regular Monitor and Coordination meetings, it will be shared to NCGSC, TSG and NFP including constraints, challenges and gaps for further decision to actions together. The example of Activity Monitoring Table is described below.



**Table 5: Activity Monitoring Table: Sample**

| MATRIX FOR THE DEVELOPMENT OF NATIONAL ACTION PLAN FOR HEALTH SECURITY 2018 - 2022                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                |                                                                                |                                                                                                                                                                                                                          |                                                                  |                                                    |                                                                                               |                       |                                             |                                 |                                                                                                                                               |                                                                                                                                                                                                                                                                          |                                      |  |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------|---------------------------------------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--|--|--|
| PREVENT                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                |                                                                                |                                                                                                                                                                                                                          |                                                                  |                                                    |                                                                                               |                       |                                             |                                 |                                                                                                                                               |                                                                                                                                                                                                                                                                          |                                      |  |  |  |
| General Objective: To prevent and reduce the likelihood of outbreaks and other public health hazards and events defined by IHR (2005). |                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                |                                                                                |                                                                                                                                                                                                                          |                                                                  |                                                    |                                                                                               |                       |                                             |                                 |                                                                                                                                               |                                                                                                                                                                                                                                                                          |                                      |  |  |  |
| GOAL                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                |                                                                                |                                                                                                                                                                                                                          |                                                                  |                                                    | Basic inputs questionnaire                                                                    | Costing Matrix        | Re-sults 1                                  | Graphs                          | List pending items                                                                                                                            | National Legislation                                                                                                                                                                                                                                                     | IHR Coordination AMR1                |  |  |  |
| TECHNICAL AREA                                                                                                                         | Prevention 5                                                                                                                                                                                                                                                                                                                                                                                                                    | Food Safety                                                                                                                                    |                                                                                |                                                                                                                                                                                                                          |                                                                  |                                                    |                                                                                               |                       |                                             |                                 |                                                                                                                                               |                                                                                                                                                                                                                                                                          |                                      |  |  |  |
| JEE Indicator                                                                                                                          | P.5.1                                                                                                                                                                                                                                                                                                                                                                                                                           | Mechanisms for multisectoral collaboration established to ensure rapid response to food safety emergencies and outbreaks of foodborne diseases |                                                                                |                                                                                                                                                                                                                          |                                                                  |                                                    | Zoonotic Disease                                                                              | Food Safety           | Biosafety-Bioscurity                        | Immunization                    | Laboratory                                                                                                                                    | Real Time Surveillance                                                                                                                                                                                                                                                   | Reporting Workforce Development      |  |  |  |
| JEE Scores                                                                                                                             | 2                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                |                                                                                |                                                                                                                                                                                                                          |                                                                  |                                                    | Preparedness                                                                                  | Emergency Response    | Linking PH n Security Ath                   | Med Counter measures            | Risk Communication                                                                                                                            | PoEs                                                                                                                                                                                                                                                                     | Chemical event Radiation Emergencies |  |  |  |
| JEE recommendations                                                                                                                    | <ul style="list-style-type: none"><li>• Establish a multi-sectoral strategy for a national food safety management and surveillance system from farm to fork</li><li>• Implement food safety control management systems based on multi-sectoral involvement in risk profiling of food safety problems</li><li>• Activate a transparent communication mechanism between all public and private food safety stakeholders</li></ul> |                                                                                                                                                |                                                                                |                                                                                                                                                                                                                          |                                                                  |                                                    |                                                                                               |                       |                                             |                                 |                                                                                                                                               |                                                                                                                                                                                                                                                                          |                                      |  |  |  |
| Objective                                                                                                                              | To promote capacities for surveillance and response among State parties for food- and water-born disease risks or events<br>To strengthen effective communication and collaboration among the sectors responsible for food safety, and safe water and sanitation                                                                                                                                                                |                                                                                                                                                |                                                                                |                                                                                                                                                                                                                          |                                                                  |                                                    |                                                                                               |                       |                                             |                                 |                                                                                                                                               |                                                                                                                                                                                                                                                                          |                                      |  |  |  |
| No                                                                                                                                     | Summary of Planned Activities at National Level (Strategic actions)                                                                                                                                                                                                                                                                                                                                                             | Responsible authority(s) for implementation including budget line holder                                                                       | Related existing plan/ framework / Programme or on going activities            | Detailed activities (input description for costing)                                                                                                                                                                      | Where is the action to be implemented (National or sub-national) | Output indicators (Monitoring and Evaluation)      | Comments or Potential challenges                                                              | Existing budget (y/n) | Existing budget source (government, donor?) | Estimated cost (Local currency) |                                                                                                                                               |                                                                                                                                                                                                                                                                          | Year of implementation               |  |  |  |
| 1                                                                                                                                      | Guidelines for the National Food Safety Emergency and Outbreak Response of food borne diseases                                                                                                                                                                                                                                                                                                                                  | CEU, FDA, Laboratory- MoHS, LBVD-MoALI                                                                                                         | Rapid Response Team (RRT) already established, outbreak management guidelines. | (1) Advocacy meeting to develop guideline, training Modules and to organize or form task force for National Food Safety Emergency and Outbreak Response of food borne diseases (20 participants, Away 6, 1 day, 2 time ) | National                                                         | Guideline/ manual and task force developed in time | Multi-sectoral involvement and communication mechanism, human resources and financial support | N                     |                                             | 2,136,000                       | ( 9000* (20 - 6 ) * 1 + 6 * 3 * 30000 + 6 * 95000 + 1 * 250000 ( True ) + 20 * 1 * ( 15000True + 10000True ) + 20 * 2500True ) * 1 + 0 + 0    | 1 Meeting : Per diem = 9000 Participants = 20 Days = 1, Participants away = 6 Days away = 3 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0   | 1                                    |  |  |  |
|                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                |                                                                                | (2) Task force meetings to develop draft guideline, training Modules (15 participants, Away 6, 1 dya, 4 times)                                                                                                           | National                                                         | Guideline/ manual drafted                          | Multi-sectoral involvement and communication mechanism, human resources                       | N                     |                                             | 1,903,500                       | ( 9000* (15 - 6 ) * 1 + 6 * 3 * 30000 + 6 * 95000 + 1 * 250000 ( True ) + 15 * 1 * ( 15000True + 10000True ) + 15 * 2500True ) * 1 + 0 + 0    | 1 Meeting : Per diem = 9000 Participants = 15 Days = 1, Participants away = 6 Days away = 3 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0   | 2                                    |  |  |  |
|                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                |                                                                                | (3) All stakeholders involvement Workshop on finalization of National Food Safety Emergency and Outbreak Response of food borne diseases Guideline, training Modules (40 participants, Away 20, 2 days, 1 time )         | National                                                         | Guideline/ manual Developed                        | Multi-sectoral involvement and communication mechanism, human resources                       | N                     |                                             | 7,360,000                       | ( 9000* (40 - 20 ) * 2 + 20 * 4 * 30000 + 20 * 95000 + 2 * 250000 ( True ) + 40 * 2 * ( 15000True + 10000True ) + 40 * 2500True ) * 1 + 0 + 0 | 1 Meeting : Per diem = 9000 Participants = 40 Days = 2, Participants away = 20 Days away = 4 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0  | 1                                    |  |  |  |
|                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                 | FDA, NHL-MoHS, LBVD-MoALI                                                                                                                      |                                                                                | (4) Dessination workshop/meeting for Guidelines on National Food Safety Emergency and Outbreak Response of food borne diseases Guideline, training Modules (70 participants per meeting, 35 away, for 2 days)            | National                                                         | Dessination meeting conducted                      |                                                                                               | N                     |                                             | 8,085,000                       | ( 9000* (70 - 30 ) * 1 + 30 * 3 * 30000 + 30 * 95000 + 1 * 250000 ( True ) + 70 * 1 * ( 15000True + 10000True ) + 70 * 2500True ) * 1 + 0 + 0 | 1 Workshop : Per diem = 9000 Participants = 70 Days = 1, Participants away = 30 Days away = 3 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0 | 1                                    |  |  |  |

**Table 5.a. Activity Monitoring Table: Sample**

| Sr. | Summary of Planned Activities at National Level (Strategic actions) | Detailed activities (input description for costing) | Estimated cost (Local currency) | Plan and achievement by Year |          |      |          |      |          |      |          |      |          |
|-----|---------------------------------------------------------------------|-----------------------------------------------------|---------------------------------|------------------------------|----------|------|----------|------|----------|------|----------|------|----------|
|     |                                                                     |                                                     |                                 | 2018                         |          | 2019 |          | 2020 |          | 2021 |          | 2022 |          |
|     |                                                                     |                                                     |                                 | Plan                         | Achieved | Plan | Achieved | Plan | Achieved | Plan | Achieved | Plan | Achieved |
|     |                                                                     |                                                     |                                 |                              |          |      |          |      |          |      |          |      |          |
|     |                                                                     |                                                     |                                 |                              |          |      |          |      |          |      |          |      |          |
|     |                                                                     |                                                     |                                 |                              |          |      |          |      |          |      |          |      |          |

### o Annual Reporting

The country will continue to report annually on the development of the main IHR (2005) core capacities as their obligation to report annually to the World Health Assembly on the implementation of IHR (2005). This annual report is generated from regular internal reporting mechanism, meetings, supervisions and evaluation of implementation of NAPHS plan.

### o Meetings

Meetings on coordination among stakeholders and evaluation on implementation of NAPHS will explore the process, mechanism for more effective coordination and do effective prompt actions against constraints and challenges during implementation of activities. Again, these process will enforce implementation of NAPHS's activities to be on track according to plan and effectiveness, efficiency and quality of activities, NAPHS. Regular monthly, quarterly, bi-annual and annual will be conducted in each technical area accordingly for more coordination, evaluation and actions needed. Ad-hoc meetings will be as part of monitoring process for urgent actions as necessary.

### o Supervision Visits

Topping up with onsite supervisions on regular monitoring on reports and meeting will be conducted as per plan and as necessary on needs. This will supports to implementer for more skills, improvement of relevant technical and in doing on-job trainings. These will significantly increase the quality outputs of activities in operating of NAPHS as parts of improvement plan for core capacities of IHR.

### o Simulation Exercises and testing

Country team will conduct simulation, testing exercised according to plan to test the functionality of the system in a non-event environment and to validate the functional capacities of a system. In addition, there will be more simulation exercise specific for radiation emergencies and chemical events annually. The findings of exercises can provide a more operational view in the level of capacities across the nineteen technical areas for further actions necessary as well.

### o After Action Review

An after action review (AAR) is a qualitative review of actions taken to respond to an

emergency as a means of identifying best practices and lessons learned. This will give country team opportunities to act the activities against actual views and doing revision activities planned in NAPHS revision.

#### ○ **The Joint External Evaluations**

The initial JEE provided key recommendations that guided the development of the national actions plan for health security. A second JEE will be conducted as part of the end-evaluation of the NAPHS. There will also be yearly review and revise activity of the plan to assess progress, identify bottlenecks to implementation and provide recommendations to guide implementation in the next year of the plan period. In addition to this, mid-term evaluation and end year plan evaluation will be conducted in which progress and effectiveness of NAPHS operation and status of core capacity will be assessed. JEE will be carried out at the 5<sup>th</sup> year of project life, and annual coordination, review and revise meetings for 5<sup>th</sup> year of NAPHS implementation will be conducted after JEE visit so that findings and recommendations will be incorporated into revising NAPHS for next 5 year plan.

## **ANNEX V:**

### **Advocacy and Communication Strategy**

Sustainable Core capacity level of country regarding with implementation IHR (2005) to ensure Country's Health Security will be on effective timely operation of NAPHS during 2018 and onwards. Multi-sectoral approaches with their involvement and commitments will create the good pictures of outcomes by NAPHS. Using effective and appropriate advocacy and communication strategies will realize implementation of NAPHS resulting intended goals and objectives. The followings strategies on advocacy and communication will be used as basic approaches for implementation of NAPHS in line to ensure IHR (2005)

#### ○ **Advocacy**

Letting know of NAPHS and its' implementation to the policy and decision makers will establish strong commitments and interests for the supports to implementation of activities. Implementer, related/relevant stakeholders and partners would give more inputs and cooperative efforts into plans for effective timely implementation. Acceptance and participation by community and beneficiaries to implementation will be in sustainable actions remained. In doing so, availability of funds, human resources, more participation will be increased.

#### ○ **Awareness**

Awareness on NAPHS operation in line with IHR increased will make more understanding of NAPHS among higher level officers, stakeholders, partners, implementers and community/beneficiaries. This understanding on activities of NAPHS by them will be increase their acceptance, supports and collaboration in operation of NAPHS activities.

Education with IEC material, talks, documentary, video and airing will be used as necessary and appropriately for awareness promoted and increased

○ **Orientation**

All stakeholders, partners, implementers including beneficiaries is essential to know NAPHS what type of activities or actions will be conducted by whom at what time for how long duration and at which place with for what objectives, and how monitoring, evaluation approaches. These information will create ability for stakeholder to find engagement place or points for them and to cooperate implementation of NAPHS activities. These will ensure multi-sectoral approach and their involvements.

○ **Simulation and exercises and drills**

The knowledge, information and understanding on operation and objectives in operation of NAPHS needs a platform or places in order to be tested or exercise done, from which harmonized movements, coordination by time to time will be in place as active functioning. So, multi-sectoral involvement simulation, exercise, drills including beneficiaries will important for effective implementation of NAPHS's activities. This will result trusts increased among and by all related stakeholders.

○ **Risk Communication Plan**

In order to increase awareness through advocacy, education for more knowledge, information and facts, communication plan for public and emergency/ risks will be utilized by implementer, stakeholders and partners. What type of information and facts will be disseminated by what channel to public before and after the events are included in Communication plan. Assessment of ongoing information and doing correct and appropriate feedback will be included in communication plan so that all persons and community will increase more understanding of operating NAPHS and IHR for health security of country.

○ **Media Surveillance and rumor verification**

Existence and spreading of correct or appropriate information, knowledge and facts on public emergencies and events is essential for improving health security of country through operation of NAPHS. So, implementer, all stakeholder and partner will conduct the implementation of media surveillance and rumor verification by assigning one designated unit and focal person.

○ **Community Engagement for inclusion**

In doing the communication strategy above will enable and ensure engagement by community starting by initial participation. Understanding and acceptance through communication strategies will be increased for sustainable actions of NAPHS, and in turn, demands will be generated by themselves for their healthy lifestyle. Therefore, community will do more engagement in NAPHS not only implementation but also in planning phase.

## ANNEX VI:

**Key Technical Areas and experts for Country Planning Participants lists and list of Stakeholders including Sectors and Partners**

WHO country office, Myanmar and Technical Professional Officer works closely with Central Epidemiological Unit, MoHS and supports not only technical in all areas as necessary but also financing for this NAPHS development. Development partners such as US-CDC did providing technical and time in development of NAPHS.

**Table 6: Key Technical areas and Experts:**

| Strategic Category | Technical areas                                 | Responsible Person     | Designation                               | Department/ Organizations       |
|--------------------|-------------------------------------------------|------------------------|-------------------------------------------|---------------------------------|
| <b>I. PREVENT</b>  | 1. National legislation, policy and financing   | Dr Htun Tin            | Director                                  | DoPH, MoHS                      |
|                    |                                                 | Dr Khin Khin Gyi       | Deputy Director                           | CEU, MoHS                       |
|                    |                                                 | Dr. Aung Min Thein     | Assistant Director                        | Union Attorney General's office |
|                    |                                                 | Dr Htoo Myint Swe      | Assistant Director                        | DPF, MoHS                       |
|                    |                                                 | Dr Aung Thu            | Medical Officer                           | CEU, MoHS                       |
|                    | 2. IHR coordination, communication and advocacy | Dr Kyaw Khaing         | Director, (Assistant Permanent Secretary) | IRD, MoHS                       |
|                    |                                                 | Dr Htun Tin            | Director                                  | DoPH, MoHS                      |
|                    |                                                 | Dr Nyan Win Myint      | Deputy Director                           | CEU, MoHS                       |
|                    |                                                 | Dr Khin Sandar Aung    | Deputy Director                           | CEU, MoHS                       |
|                    |                                                 | Dr Thet Wai Nwe        | Assistant Director                        | CEU, MoHS                       |
|                    | 3. Antimicrobial resistance                     | Prof. Dr Htay Htay Tin | Deputy Director General, NHL              | DMS, MoHS                       |
|                    |                                                 | Dr Htun Tin            | Director                                  | DoPH, MoHS                      |
|                    |                                                 | Dr Latt Latt Kyaw      | Deputy Director, NHL                      | DMS, MoHS                       |
|                    |                                                 | Dr Win Thein           | Deputy Director, NHL                      | DMS, MoHS                       |
|                    |                                                 | Dr Eh Htoo             | Assistant Director, NHL                   | DMS, MoHS                       |
|                    |                                                 | Dr Khin Nyein San      | Assistant Director, NHL                   | DMS, MoHS                       |
|                    | 4. Zoonotic diseases                            | Dr Min Thein Maw       | Director, LVBD                            | MoALI                           |
|                    |                                                 | Dr Htun Tin            | Director                                  | DoPH, MoHS                      |
|                    |                                                 | Dr Khin Sanda Aung     | Deputy Director                           | CEU, MoHS                       |
|                    |                                                 | Dr Yan Linn Aung       | Assistant Director                        | CEU, MoHS                       |

| Strategic Category | Technical areas               | Responsible Person      | Designation                  | Department/ Organizations |
|--------------------|-------------------------------|-------------------------|------------------------------|---------------------------|
|                    | 5. Food safety                | Dr Htin Linn            | Deputy Director General      | FDA, MoHS                 |
|                    |                               | Dr Htun Tin             | Director                     | DoPH, MoHS                |
|                    |                               | Dr Min Thein Maw        | Director, LVBD               | MoALI                     |
|                    |                               | Dr Sabai Htet Htet Htoo | Assistant Director           | FDA, MoHS                 |
|                    | 6. Biosafety and biosecurity  | Prof. Dr Htay Htay Tin  | Deputy Director General, NHL | DMS, MoHS                 |
|                    |                               | Dr Htun Tin             | Director                     | DoPH, MoHS                |
|                    |                               | Dr Latt Latt Kyaw       | Deputy Director, NHL         | DMS, MoHS                 |
|                    |                               | Dr Win Thein            | Deputy Director, NHL         | DMS, MoHS                 |
|                    |                               | Dr Ohnmar Lwin          | Assistant Director, NHL      | DMS, MoHS                 |
|                    | 7. Immunization               | Dr Htun Tin             | Director                     | DoPH, MoHS                |
|                    |                               | Dr Htar Htar Linn       | Deputy Director              | EPI, MoHS                 |
|                    |                               | Dr Aye Mya Chan Thar    | Assistant Director           | EPI, MoHS                 |
|                    |                               | Dr Aung Naing Oo        | Assistant Director           | EPI, MoHS                 |
| II.<br>DETECT      | 1. National laboratory system | Prof. Dr Htay Htay Tin  | Deputy Director General, NHL | DMS, MoHS                 |
|                    |                               | Dr Latt Latt Kyaw       | Deputy Director, NHL         | DMS, MoHS                 |
|                    |                               | Dr Win Thein            | Deputy Director, NHL         | DMS, MoHS                 |
|                    |                               | Dr Eh Htoo              | Assistant Director, NHL      | DMS, MoHS                 |
|                    | 2. Real Time Surveillance     | Dr Htun Tin             | Director                     | DoPH, MoHS                |
|                    |                               | Dr Toe Thiri Aung       | Deputy Director              | CEU, MoHS                 |
|                    |                               | Dr Aung Myat Htay       | Assistant Director           | CEU, MoHS                 |
|                    |                               | Dr Ei Ei Zar Nyi        | Assistant Director           | CEU, MoHS                 |
|                    | 3. Reporting                  | Dr Htun Tin             | Director                     | DoPH, MoHS                |
|                    |                               | Dr Toe Thiri Aung       | Deputy Director              | CEU, MoHS                 |
|                    |                               | Dr Khin Sandar Aung     | Deputy Director              | CEU, MoHS                 |
|                    |                               | Dr Thet Wai Nwe         | Assistant Director           | CEU, MoHS                 |
|                    |                               | Dr Aung Myat Htay       | Assistant Director           | CEU, MoHS                 |
|                    | 4. Workforce Development      | Dr Htun Tin             | Director                     | DoPH, MoHS                |
|                    |                               | Dr Phyu Phyu Aye        | Director                     | HLPU, MoHS                |
|                    |                               | Dr Aye Mya Aung         | Deputy Director              | HRH, MoHS                 |

| Strategic Category                                         | Technical areas                                      | Responsible Person  | Designation        | Department/ Organizations |
|------------------------------------------------------------|------------------------------------------------------|---------------------|--------------------|---------------------------|
| III.<br>RESPOND                                            | 1. Preparedness                                      | Dr Htun Tin         | Director           | DoPH, MoHS                |
|                                                            |                                                      | Dr Khin Sandar Aung | Deputy Director    | CEU, MoHS                 |
|                                                            |                                                      | Dr Kyaw Khine San   | Assistant Director | Preparedness, MoHS        |
|                                                            |                                                      | Dr Aung Myat Htay   | Assistant Director | CEU, MoHS                 |
|                                                            | 2. Emergency Response Operation                      | Dr Htun Tin         | Director           | DoPH, MoHS                |
|                                                            |                                                      | Dr. Toe Thiri Aung  | Deputy Director    | CEU, MoHS                 |
|                                                            |                                                      | Dr Kyaw Khine San   | Assistant Director | Preparedness, MoHS        |
|                                                            |                                                      | Dr Aung Myat Htay   | Assistant Director | CEU, MoHS                 |
|                                                            | 3. Linking Public Health & Security Authority        | Dr Htun Tin         | Director           | DoPH, MoHS                |
|                                                            |                                                      | Dr Kyaw Khin San    | Assistant Director | Preparedness, MoHS        |
|                                                            |                                                      | Dr Moe Khine        | Assistant Director | DMS, MoHS                 |
|                                                            |                                                      | Dr Aung Myat Htay   | Assistant Director | CEU, MoHS                 |
|                                                            | 4. Medical Counter Measures and personnel deployment | Dr Htun Tin         | Director           | DoPH, MoHS                |
|                                                            |                                                      | Dr Kyaw Khin San    | Assistant Director | Preparedness, MoHS        |
|                                                            |                                                      | Dr Moe Khine        | Assistant Director | DMS, MoHS                 |
|                                                            | 5. Risk Communications                               | Dr Htun Tin         | Director           | CEU, MoHS                 |
|                                                            |                                                      | Dr Phyu Phyu Aye    | Deputy Director    | HLPU, MoHS                |
|                                                            |                                                      | Dr Yi Yi Win        | Deputy Director    | HRH, MoHS                 |
|                                                            |                                                      | Dr Thet Wai Nwe     | Assistant Director | CEU, MoHS                 |
|                                                            |                                                      | Dr Yan Lin Aung     | Assistant Director | CEU, MoHS                 |
| IV.<br>Other IHR related hazards & Point of Entries (PoEs) | 1. Point of Entry                                    | Dr Htun Tin         | Director           | DoPH, MoHS                |
|                                                            |                                                      | Dr Min Thein Maw    | Director, LVBD     | MoALI                     |
|                                                            |                                                      | Dr Nyan Win Myint   | Deputy Director    | CEU, MoHS                 |
|                                                            |                                                      | Dr Thet Wai Nwe     | Assistant Director | CEU, MoHS                 |
|                                                            |                                                      | Dr Nyan Htet Lwin   | Medical Officer    | Yangon Port Health, MoHS  |



| Strategic Category | Technical areas        | Responsible Person   | Designation        | Department/ Organizations |
|--------------------|------------------------|----------------------|--------------------|---------------------------|
|                    | 2. Chemical Event      | Dr Htun Tin          | Director           | DoPH, MoHS                |
|                    |                        | Col Khine Zaw Oo     |                    | DMSR                      |
|                    |                        | Dr Khaing Khaing Soe | Assistant Director | EH, MoHS                  |
|                    |                        | Dr Aung Thu          | Medical Officer    | CEU, MoHS                 |
|                    | 3. Radiation Emergency | Dr Htun Tin          | Director           | CEU, MoHS                 |
|                    |                        | Dr Aung Moe          | Director           | DAE, MoE                  |
|                    |                        | Dr Thuzar Lwin Oo    | Deputy Director    | DAE, MoE                  |
|                    |                        | Dr Khaing Khaing Soe | Deputy Director    | EH, MoHS                  |

**General Objective:** To prevent and reduce the likelihood of outbreaks and other public health hazards and events defined by IHR (2005).

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|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                           |                                                                                                                                   |                                                                                                                                                                                                                                                                                                   |                                      |                                                                                                              |                                                                                                                                                                                                              |   |            |                                                                                                                                                            |   |   |   |   |  |            |            |            |   |   |   |           |             |            |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|---|--|------------|------------|------------|---|---|---|-----------|-------------|------------|
|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Related Min-<br>istries, co-<br>ordinated by<br>the steering<br>committee                                                                 | IHR (2005), Gov-<br>ernment police<br>and existing Laws                                                                           | (2) Conducting field visits for<br>assessment<br>with stakeholders and respon-<br>sible persons for interviews,<br>documents review, assessment<br>and done for<br>3 days per 3 times for each<br>consultant                                                                                      | National<br>and<br>Sub-na-<br>tional | Number of<br>field visit by<br>consultant<br>to conduct<br>assessment<br>and done for<br>adjustment<br>needs | collaboration<br>from different<br>departments,<br>timeframe                                                                                                                                                 | N | 1,038,000  | 3 * 3 * 31000 + 3 *<br>95000 + 1 * 132000<br>* 3 + 3 * 1 * 26000<br>= 1038000                                                                              |   |   |   |   |  |            | 9          | -          | - | - | - | 9,342,000 | 9,342,000   |            |
|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Related Min-<br>istries, co-<br>ordinated by<br>the steering<br>committee                                                                 | IHR (2005), Gov-<br>ernment police<br>and existing Laws                                                                           | (3) Meetings with stakehold-<br>ers and responsible officials at<br>Field visits by Consultants                                                                                                                                                                                                   | National<br>and<br>Sub-na-<br>tional | Number of<br>meeting<br>with stake-<br>holders and<br>assessment<br>done for<br>adjustment<br>needs          | collaboration<br>from different<br>departments,<br>timeframe                                                                                                                                                 | N | 4,125,000  | (9000* (30 - 15)<br>*1 + 15 * 3 * 30000<br>+ 15 * 95000 + 1 *<br>250000 ( True) +30<br>*1* ( 15000True)<br>+ 10000True) +<br>30 * 2500True) * 1<br>+ 0 + 0 |   |   |   |   |  |            |            | 3          | - | - | - | -         | 12,375,000  | 12,375,000 |
| WEE Indicator       | P.1.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Legislation, laws, regulations, administrative requirements, policies or other government instruments in place for implementation of IHR. |                                                                                                                                   |                                                                                                                                                                                                                                                                                                   |                                      |                                                                                                              |                                                                                                                                                                                                              |   |            |                                                                                                                                                            |   |   |   |   |  |            |            |            |   |   |   |           |             |            |
| WEE Scores          | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                           |                                                                                                                                   |                                                                                                                                                                                                                                                                                                   |                                      |                                                                                                              |                                                                                                                                                                                                              |   |            |                                                                                                                                                            |   |   |   |   |  |            |            |            |   |   |   |           |             |            |
| WEE recommendations | * Myanmar should ensure that in the revised laws and regulations both from human health and animal health that the country is planning to present to the parliament, have legislations and regulation that support strengthening the IHR capacities implementation in the country.<br>* Myanmar needs to continue the best practice of having cross border local MoU between Thailand and Myanmar. The practices should be continued with other neighboring countries. |                                                                                                                                           |                                                                                                                                   |                                                                                                                                                                                                                                                                                                   |                                      |                                                                                                              |                                                                                                                                                                                                              |   |            |                                                                                                                                                            |   |   |   |   |  |            |            |            |   |   |   |           |             |            |
| Objective           | To have sufficient national legislation, policy and framework to support IHR implementation                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                           |                                                                                                                                   |                                                                                                                                                                                                                                                                                                   |                                      |                                                                                                              |                                                                                                                                                                                                              |   |            |                                                                                                                                                            |   |   |   |   |  |            |            |            |   |   |   |           |             |            |
| 1                   | To follow up the finaliza-<br>tion of draft laws in the<br>parliament                                                                                                                                                                                                                                                                                                                                                                                                  | Related Min-<br>istries for law<br>and legisla-<br>tion and the<br>parliament                                                             | Discussion with<br>responsible<br>persons from<br>Parliament,<br>Union Attorney<br>General Office<br>and other stake-<br>holders. | (1) Meetings with responsible<br>persons from Parliament,<br>Union Attorney General Office<br>and other stakeholders on<br>other laws or legislations from<br>different areas for IHR<br>(14 times, 20 participants, 5<br>Away, estimated 2 times of<br>meeting for each laws and<br>legislation) | National                             | approval of<br>laws by<br>parliament                                                                         | approval of different points<br>of view from re-<br>source persons to<br>finalize the laws                                                                                                                   | N | 1,370,000  | (9000* (20- 5)<br>*1 + 5 * 3 * 30000<br>+ 5 * 95000 + 1 *<br>250000 ( False) +20<br>*1* ( 15000False<br>+ 10000True) +<br>20 * 2500True) * 1<br>+ 0 + 0    | 3 | 7 | 2 | 2 |  | 4,110,000  | 9,590,000  | 2,740,000  |   |   |   |           | 19,180,000  |            |
| 2                   | Advocacy to stakeholders<br>and raising awareness<br>campaign about laws to<br>the public                                                                                                                                                                                                                                                                                                                                                                              | Related<br>Ministries<br>for law and<br>legislation                                                                                       | Instructions, laws<br>and orders of<br>Government                                                                                 | (1) Development and printing<br>of booklet, Pamphlets, posters,<br>multi-media program on<br>laws/legislation<br>(published 15,000 copies of<br>laws, 50,000 pamphlets, 5,000<br>Poster, 5 multimedia program)                                                                                    | National<br>and<br>Sub-na-<br>tional | Number of IEC<br>material de-<br>veloped and<br>produced<br>for increased<br>awareness                       | delayed aware-<br>ness due to<br>Language barrier,<br>conflict areas, low<br>socio-economic<br>status, hard-to-<br>reach areas, cul-<br>tures, customs                                                       | N | 35,000,000 | 500* 15000 + 50*<br>50000 + 500*<br>5000+4500000 * 5                                                                                                       | 1 | 1 | 1 | 1 |  | 35,000,000 | 35,000,000 | 35,000,000 |   |   |   |           | 140,000,000 |            |
|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Related<br>Ministries<br>for law and<br>legislation                                                                                       | Instructions, laws<br>and orders of<br>Government                                                                                 | (2) Distribution of IEC<br>materials                                                                                                                                                                                                                                                              | National<br>and<br>Sub-na-<br>tional | Number of<br>IEC material<br>distributed<br>to relevant<br>areas for<br>increased<br>awareness               | Late arrival of IEC<br>material to<br>reach areas.<br>delayed aware-<br>ness due to<br>Language barrier,<br>conflict areas, low<br>socio-economic<br>status, hard-to-<br>reach areas, cul-<br>tures, customs | N | 5,400,000  | 18* 300000                                                                                                                                                 | 1 | 1 | 1 | 1 |  | 5,400,000  | 5,400,000  | 5,400,000  |   |   |   |           | 21,600,000  |            |

[illegible]

**General Objective:** To prevent and reduce the likelihood of outbreaks and other public health hazards and events defined by IHR (2005).

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## NATIONAL ACTION PLAN FOR HEALTH SECURITY (NAPHS)

| No | Summary of Planned Activities at National Level (Strategic actions)                                                               | "Responsible authority(s) for Implementation including budget line holder" | Related existing plan/ Framework or on going activities                                                                                                                     | "Detailed activities (Input description for costing)"                                                                                                                                               | Where is the action to be implemented (National or sub-national) | "Output indicators (Monitoring and Evaluation)"                               | Comments or Potential challenges                                | Existing budget-get(y/n) | Existing budget source (government, donor?) | "Estimated cost (Local currency)" |  | Year of implementation | Total Cost Year in Local Currency |            |            |             |      |       |
|----|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------|--------------------------|---------------------------------------------|-----------------------------------|--|------------------------|-----------------------------------|------------|------------|-------------|------|-------|
|    |                                                                                                                                   |                                                                            |                                                                                                                                                                             |                                                                                                                                                                                                     |                                                                  |                                                                               |                                                                 |                          |                                             |                                   |  |                        | 2018                              | 2019       | 2020       | 2021        | 2022 | TOTAL |
|    |                                                                                                                                   |                                                                            |                                                                                                                                                                             |                                                                                                                                                                                                     |                                                                  |                                                                               |                                                                 |                          |                                             |                                   |  |                        |                                   |            |            |             |      |       |
|    |                                                                                                                                   |                                                                            |                                                                                                                                                                             |                                                                                                                                                                                                     |                                                                  | 2018<br>2019<br>2020<br>2021<br>2022<br>89012                                 |                                                                 |                          |                                             |                                   |  |                        |                                   |            |            |             |      |       |
|    |                                                                                                                                   | Government, related ministries and other stakeholders                      | Myanma Action Plan for Disaster Risk Reduction (MAPDRR), Standing Order on Natural Disaster Management in Myanmar (2010), National strategic plan for influenza, IHR (2005) | (3) Logistic supply (Internet, Fax, Computer, Phone Office (eg. EOC, vehicles, ect). running cost as per MOHS and WHO specification                                                                 | National and Sub-national                                        | Facilities, IT equipment installed for Timeliness, Readiness and Completeness | Staff turnover, chain of command, multi tasks simultaneously    | N                        |                                             | 190,700,000                       |  | 1                      | -                                 | -          | -          | 190,700,000 |      |       |
|    |                                                                                                                                   | Government, related ministries and other stakeholders                      | Myanma Action Plan for Disaster Risk Reduction (MAPDRR), Standing Order on Natural Disaster Management in Myanmar (2010), National strategic plan for influenza, IHR (2005) | (4) Coordination meeting within relevant ministries on public health event or risk concern (Annually and ad-Hoc) (30 participants; Away 15, 1 Day, 3 times per year)                                | National and Sub-national                                        | Number of meeting for public health events or risk done                       | Staff turnover, chain of command, multi tasks simultaneously    | N                        |                                             | 4,125,000                         |  | 3333                   | 12,375,000                        | 12,375,000 | 12,375,000 | 61,875,000  |      |       |
|    |                                                                                                                                   | Government, related ministries and other stakeholders                      | IHR (2005); Government policy and laws and existing Laws                                                                                                                    | (5) Coordination meeting on drafting, submission and approval of laws and policies (30 participants; Away 15, 1 Day, 2 times per year)                                                              | National and Sub-national                                        | Number of meeting policies approval or revision done                          | Staff turnover, chain of command, multi tasks simultaneously    | N                        |                                             | 4,125,000                         |  | 2222                   | 8,250,000                         | 8,250,000  | 8,250,000  | 33,000,000  |      |       |
| 2  | Developing multi-sectoral, interdisciplinary Comprehensive Country Joint Action Plan to implement IHR for Health Security (NAPHS) | Government, related ministries, steering committee and other stakeholders  | Government policy, variety of National Plans, IHR (2005), existing communication channel and practices                                                                      | (1) Advocacy/Workshops to multi-sectoral, multidisciplinary Comprehensive Country joint Action Plan to implement IHR for Health Security (NAPHS) (70 participants per meeting, 35 away, for 1 days) | National and Sub-national                                        | Number of Meetings for development of NAPHS                                   | Coordination, Cooperation, Collaboration Multi tasks and duties | Y                        | WHO                                         | 8,085,000                         |  | 1                      | 8,085,000                         | -          | -          | 8,085,000   |      |       |
|    |                                                                                                                                   | Government, related ministries, steering committee and other stakeholders  | Government policy, variety of National Plans, IHR (2005), existing communication channel and practices                                                                      | (2) Development workshop on multi-sectored, multidisciplinary Comprehensive Country joint Action Plan to implement IHR for Health Security (NAPHS) (40 Participants; Away 20, 2 Days, 2 times )     | National and Sub-national                                        | Number of workshop for development of NAPHS                                   | Coordination, Cooperation, Collaboration Multi tasks and duties | Y                        | WHO                                         | 7,310,000                         |  | 2                      | 14,620,000                        | -          | -          | 14,620,000  |      |       |

# NATIONAL ACTION PLAN FOR HEALTH SECURITY (NAPHS)

|  |                                                                           |                                                                                                        |                                                                                                                                                                                                                                                                                                                                                           |                           |                                                                                                       |                                                                                     |   |     |            |                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                          |   |   |   |   |  |  |            |           |           |           |           |            |
|--|---------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---|-----|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|---|--|--|------------|-----------|-----------|-----------|-----------|------------|
|  | Government, related ministries, steering committee and other stakeholders | Government policy, variety of National Plans, IHR (2005), existing communication channel and practices | (3) Hiring consultant for development of multi-sectoral, multidisciplinary Comprehensive Country Joint Action Plan to implement IHR for Health Security (NAPHS) (1 national consultant for 60 days)                                                                                                                                                       | National                  | Comprehensive NAPHS developed                                                                         | Coordination, Cooperation, Collaboration Multi tasks and duties                     | Y | WHO | 16,800,000 | $1 \times 60 \times (80000 + 200000) + 1 \times 0 = 16800000$                                                                                                                                                              | Number = 1; No of Days = 60; Per diem = 80000; Daily rate = 200000; Travel = 0                                                                                                                                                                                           | 1 |   |   |   |  |  | 16,800,000 | -         | -         | -         | -         | 16,800,000 |
|  | Government, related ministries, steering committee and other stakeholders | Government policy, variety of National Plans, IHR (2005), existing communication channel and practices | (4) Finalization and Endorsement workshop on multi-sectoral, multidisciplinary Comprehensive Country Joint Action Plan to implement IHR for Health Security (NAPHS) (75 participants per meeting, 40 away, for 2 days)                                                                                                                                    | National and Sub-national | Number of workshop for development of NAPHS endorsement                                               | Coordination, Cooperation, Collaboration Multi tasks and duties                     | Y | WHO | 13,727,500 | $(9000 \times (75 - 40) + 2 \times 40 \times 4 \times 30000 + 40 \times 95000 + 2 \times 250000 (\text{True}) + 75 \times 2 \times (15000 \text{True} + 10000 \text{True}) + 75 \times 2500 \text{True}) \times 1 + 0 + 0$ | 1 Workshop : Per diem = 9000 Participants = 75 Days = 2, Participants away = 40 Days away = 4 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000; Printing costs = 0, Disseminating costs = 0 | 1 |   |   |   |  |  | 13,727,500 | -         | -         | -         | -         | 13,727,500 |
|  | Government, related ministries, steering committee and other stakeholders | Government policy, variety of National Plans, IHR (2005), existing communication channel and practices | (5) Orientation and planning for implementation workshop on approved NAPHS by responsible technical lead focals and stakeholders (75 participants per meeting, 40 away, for 2 days)                                                                                                                                                                       | National and Sub-national | Number of workshop for preparation of NAPHS                                                           | Coordination, Cooperation, Collaboration Multi tasks and duties                     | Y | WHO | 13,727,500 | $(9000 \times (75 - 40) + 2 \times 40 \times 4 \times 30000 + 40 \times 95000 + 2 \times 250000 (\text{True}) + 75 \times 2 \times (15000 \text{True} + 10000 \text{True}) + 75 \times 2500 \text{True}) \times 1 + 0 + 0$ | 1 Workshop : Per diem = 9000 Participants = 75 Days = 2, Participants away = 40 Days away = 4 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000; Printing costs = 0, Disseminating costs = 0 | 1 |   |   |   |  |  | 13,727,500 | -         | -         | -         | -         | 13,727,500 |
|  | Government, related ministries, steering committee and other stakeholders | Government policy, variety of National Plans, IHR (2005), existing communication channel and practices | (6) Bi-Annual Evaluation and Coordination meeting on current comprehensive NAPHS for achievements, updates, constraints, challenges and the way forward/next action plan (50 participants, Away 20, 2 Day, 1 times per year)                                                                                                                              | National and Sub-national | Number of Meetings for evaluation and coordination of NAPHS                                           | timeline, efficiency and effectiveness for planning and implementation of the plan. | N |     | 7,310,000  | $(9000 \times (40 - 20) + 2 \times 20 \times 4 \times 30000 + 20 \times 95000 + 2 \times 250000 (\text{True}) + 40 \times 2 \times (15000 \text{True} + 10000 \text{True}) + 40 \times 2500 \text{True}) \times 1 + 0 + 0$ | 1 Meeting : Per diem = 9000 Participants = 40 Days = 2, Participants away = 20 Days away = 4 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000; Printing costs = 0, Disseminating costs = 0  | 1 | 1 | 1 | 1 |  |  | 7,310,000  | 7,310,000 | 7,310,000 | 7,310,000 | 7,310,000 | 36,550,000 |
|  | Government, related ministries, steering committee and other stakeholders | Government policy, variety of National Plans, IHR (2005), existing communication channel and practices | (7) Annual Evaluation, Coordination and NAPHS activities, budget Review, revision meeting/workshop on (a) current comprehensive NAPHS for achievements, updates, constraints, challenges and the way forward/next action plan (b) Review and Revision Comprehensive NAPHS activities and budget plans (50 participants, Away 20, 3 Day, 1 times per year) | National and Sub-national | Number of Meetings for evaluation and coordination of NAPHS Number of times review and revision NAPHS | timeline, efficiency and effectiveness for planning and implementation of the plan. | N |     | 8,025,000  | $(9000 \times (50 - 20) + 2 \times 20 \times 4 \times 30000 + 20 \times 95000 + 2 \times 250000 (\text{True}) + 50 \times 2 \times (15000 \text{True} + 10000 \text{True}) + 50 \times 2500 \text{True}) \times 1 + 0 + 0$ | 1 Meeting : Per diem = 9000 Participants = 50 Days = 2, Participants away = 20 Days away = 4 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000; Printing costs = 0, Disseminating costs = 0  | 1 | 1 | 1 | 1 |  |  | 8,025,000  | 8,025,000 | 8,025,000 | 8,025,000 | 8,025,000 | 40,125,000 |



# NATIONAL ACTION PLAN FOR HEALTH SECURITY (NAPHS)

| No | Summary of Planned Activities at National Level (Strategic actions)                                                                                       | "Responsible authority(s) for implementation including budget line holder" | Related existing plan/framework/Programme or on-going activities                                       | "Detailed activities (input description for costing)"                                                                                                                                                                                   | Where is the action to be implemented (National or sub-national) | "Output indicators (Monitoring and Evaluation)"                                                                              | Comments or Potential challenges                                                    | Existing budget (get/y/n) | Existing budget source (government, donor?) | "Estimated cost (Local currency)" |                                                                                                                                  | Total Cost Year in Local Currency |           |           |           |            |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------|---------------------------------------------|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-----------|-----------|-----------|------------|
|    |                                                                                                                                                           |                                                                            |                                                                                                        |                                                                                                                                                                                                                                         |                                                                  |                                                                                                                              |                                                                                     |                           |                                             |                                   |                                                                                                                                  | Year of Implementation            |           |           |           |            |
|    |                                                                                                                                                           |                                                                            |                                                                                                        |                                                                                                                                                                                                                                         |                                                                  |                                                                                                                              |                                                                                     |                           |                                             |                                   |                                                                                                                                  | 2018                              | 2019      | 2020      | 2021      | 2022       |
| 3  | Developing multi-sectoral, multidisciplinary coordination and communication mechanisms and joint action plan for mechanisms                               | Government, related ministries, steering committee and other stakeholders  | Government policy, variety of National Plans, IHR (2005), existing communication channel and practices | (1) Workshops to develop Multi-Sectoral mechanisms and action plan (30 participants, Away 5, 1 Day)                                                                                                                                     | National and Sub-national                                        | Number of Meetings for development Mechanism and Action Plan developed for reducing Mobility and Mortality                   | timeline, efficiency and effectiveness for planning and implementation of the plan. | Y                         | WB (under discussion)                       | 2,365,000                         | (9000* (30 - 5) + 5 * 5 * 3 * 30000 + 5 * 95000 + 1 * 250000 (True) + 30 * 15000True + 10000True) + 30 * 2500True * 1 + 0 + 0    | 3                                 | 2         |           |           |            |
|    |                                                                                                                                                           |                                                                            |                                                                                                        |                                                                                                                                                                                                                                         |                                                                  |                                                                                                                              |                                                                                     |                           |                                             |                                   |                                                                                                                                  | 7,095,000                         | 4,730,000 | -         | -         | -          |
|    |                                                                                                                                                           |                                                                            |                                                                                                        |                                                                                                                                                                                                                                         |                                                                  |                                                                                                                              |                                                                                     |                           |                                             |                                   |                                                                                                                                  |                                   |           |           |           | 11,825,000 |
|    |                                                                                                                                                           | Government, related ministries, steering committee and other stakeholders  | Government policy, variety of National Plans, IHR (2005), existing communication channel and practices | (2) Test or drill or simulation exercises on action plan for mechanism (30 participants, Away 5, 1 Day, 2 different places, 2 times per year for 5 year)                                                                                | National and Sub-national                                        | Number of exercises for functioning of Mechanism and Action Plan developed for reducing Mobility and Mortality               | timeline, efficiency and effectiveness for planning and implementation of the plan. | Y                         | WB (under discussion)                       | 2,365,000                         | (9000* (30 - 5) + 5 * 5 * 3 * 30000 + 5 * 95000 + 1 * 250000 (True) + 30 * 15000True + 10000True) + 30 * 2500True * 1 + 0 + 0    | 4                                 | 4         | 4         | 4         | 4          |
|    |                                                                                                                                                           |                                                                            |                                                                                                        |                                                                                                                                                                                                                                         |                                                                  |                                                                                                                              |                                                                                     |                           |                                             |                                   |                                                                                                                                  | 9,460,000                         | 9,460,000 | 9,460,000 | 9,460,000 | 47,300,000 |
|    |                                                                                                                                                           |                                                                            |                                                                                                        |                                                                                                                                                                                                                                         |                                                                  |                                                                                                                              |                                                                                     |                           |                                             |                                   |                                                                                                                                  |                                   |           |           |           |            |
|    |                                                                                                                                                           | Government, related ministries, steering committee and other stakeholders  | Government policy, variety of National Plans, IHR (2005), existing communication channel and practices | (3) Annual Evaluation meeting on current action plan for mechanism (40 participants, Away 20, 2 Day, 1 times per year)<br><u><b>This activity will be incorporated or extended with activity P.2.1.4.4 and maybe with P.2.1.2.7</b></u> | National and Sub-national                                        | Number of Meetings for functioning and revision Mechanism and its' Action Plan developed for reducing Mobility and Mortality | timeline, efficiency and effectiveness for planning and implementation of the plan. | Y                         | WB (under discussion)                       | 7,310,000                         | (9000* (40 - 20) + 20 * 5 * 4 * 30000 + 20 * 95000 + 2 * 250000 (True) + 40 * 15000True + 10000True) + 40 * 2500True * 1 + 0 + 0 | 1                                 | 1         | 1         | 1         | 1          |
|    |                                                                                                                                                           |                                                                            |                                                                                                        |                                                                                                                                                                                                                                         |                                                                  |                                                                                                                              |                                                                                     |                           |                                             |                                   |                                                                                                                                  | 7,310,000                         | 7,310,000 | 7,310,000 | 7,310,000 | 36,550,000 |
|    |                                                                                                                                                           |                                                                            |                                                                                                        |                                                                                                                                                                                                                                         |                                                                  |                                                                                                                              |                                                                                     |                           |                                             |                                   |                                                                                                                                  |                                   |           |           |           |            |
| 4  | SOPs or TOR development for coordination between IHR focal point and other relevant sectors (including review and revise of existing SOPs and guidelines) | CEU, IRD                                                                   | IHR (2005), Government policy                                                                          | (1) Hiring consultant for development of SOP or TOR coordination mechanism between IHR National Focal Point (NFP) and other sectors, stakeholders (1 national consultant for 60 days)                                                   | National                                                         | SOPs or TOR established                                                                                                      | In place practical use of SOP                                                       | N                         |                                             | 16,800,000                        | 1 * 60 * (80000 + 200000) + 1 * 0 = 16800000                                                                                     | 1                                 |           |           |           |            |
|    |                                                                                                                                                           |                                                                            |                                                                                                        |                                                                                                                                                                                                                                         |                                                                  |                                                                                                                              |                                                                                     |                           |                                             |                                   |                                                                                                                                  | 16,800,000                        | -         | -         | -         | -          |
|    |                                                                                                                                                           |                                                                            |                                                                                                        |                                                                                                                                                                                                                                         |                                                                  |                                                                                                                              |                                                                                     |                           |                                             |                                   |                                                                                                                                  |                                   |           |           |           | 16,800,000 |

# NATIONAL ACTION PLAN FOR HEALTH SECURITY (NAPHS)

|   |                                                                                                |                                                                                    |                                                                                                                                                                                                                                                                                  |                           |                                           |                                                                                     |   |            |                                                                                                                                      |                                                                                                                                                                                                                                                                                            |   |   |           |            |   |   |            |            |
|---|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-------------------------------------------|-------------------------------------------------------------------------------------|---|------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|-----------|------------|---|---|------------|------------|
|   | CEU, IRD                                                                                       | IHR (2005), Government policy                                                      | (2) Meetings/workshop to develop SOPs (30 participants, Away 15, 1 Day, 2 times)                                                                                                                                                                                                 | National                  | SOPs or TOR established                   | In place practical use of SOP                                                       | N | 4,125,000  | (9000* (30 - 15) *1 + 15 * 3 * 30000 + 15 * 95000 + 1 * 250000 ( True) +30 *1 * ( 15000True + 10000True) + 30 * 2500True) *1 + 0 + 0 | 1 Meeting : Per diem = 9000 Participants = 30 Days = 1, Participants away = 15 Days away = 3 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Print Dis = 90000, Printing costs = 0, Disseminating costs = 0 | 2 | 2 | 8,250,000 | 8,250,000  | - | - | -          | 16,500,000 |
|   | CEU, IRD                                                                                       | IHR (2005), Government policy                                                      | (3) Finalization workshop of SOPs from draft the SOPs (sharing information, function of IHRNFP etc) (30 participants, Away 15, 1 Day, 1 times)                                                                                                                                   | National                  | SOPs or TOR established                   | In place practical use of SOP                                                       | N | 4,125,000  | (9000* (30 - 15) *1 + 15 * 3 * 30000 + 15 * 95000 + 1 * 250000 ( True) +30 *1 * ( 15000True + 10000True) + 30 * 2500True) *1 + 0 + 0 | 1 Meeting : Per diem = 9000 Participants = 30 Days = 1, Participants away = 15 Days away = 3 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Print Dis = 90000, Printing costs = 0, Disseminating costs = 0 | 1 |   | -         | 4,125,000  | - | - | -          | 4,125,000  |
|   | CEU, IRD                                                                                       | IHR (2005), Government policy                                                      | 4. Meeting on evaluation of the functions of IHR NFP (SOPs) (40 participants, Away 20, 2 Day, 1 times per year, starting sfrom 2019) <b>Conducting this activity will be incorporated or extended with activity P.2.1.3.3 and maybe with P.2.1.2.7 in IHR Coordination plan.</b> | National                  | SOPs or TOR established                   | In place practical use of SOP                                                       | N | 7,310,000  | (9000* (40 - 20) *2 + 20 * 4 * 30000 + 20 * 95000 + 2 * 250000 ( True) +40 *2 * ( 15000True + 10000True) + 40 * 2500True) *1 + 0 + 0 | 1 Meeting : Per diem = 9000 Participants = 40 Days = 2, Participants away = 20 Days away = 4 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0                    |   |   | -         | -          | - | - | -          | -          |
| 5 | Developing Monitoring, Evaluation frame work and tools to oversee progress of NAPHS Operations | Existing progress monitoring sheet, Annual Assesment report and JEE and NAPHS plan | (1) Development of M & E framework and tools                                                                                                                                                                                                                                     | National and              | Number of tools, Meetings Conducted       | timeline, efficiency and effectiveness for planning and implementation of the plan. | Y | 23,400,000 | Lumpsum                                                                                                                              | Lumpsum                                                                                                                                                                                                                                                                                    | 1 |   | -         | 23,400,000 | - | - | -          | 23,400,000 |
|   |                                                                                                | Existing progress monitoring sheet, Annual Assesment report and JEE and NAPHS plan | (2) Mid term Evaluation on NAPHS Operation in line with assessing core capacities of IHR                                                                                                                                                                                         | National and Sub-national | Number of evaluation and reports finished | timeline, efficiency and effectiveness for planning and implementation of the plan. | Y | 70,200,000 | Lumpsum                                                                                                                              | Lumpsum                                                                                                                                                                                                                                                                                    | 1 |   | -         | 70,200,000 | - | - | -          | 70,200,000 |
|   |                                                                                                | Existing progress monitoring sheet, Annual Assesment report and JEE and NAPHS plan | (3) End line Evaluation on NAPHS Operation in line with assessing core capacities of IHR                                                                                                                                                                                         | National and Sub-national | Number of evaluation and reports finished | timeline, efficiency and effectiveness for planning and implementation of the plan. | Y | 70,200,000 | Lumpsum                                                                                                                              | Lumpsum                                                                                                                                                                                                                                                                                    |   | 1 | -         | -          | - | - | 70,200,000 | 70,200,000 |
|   |                                                                                                |                                                                                    |                                                                                                                                                                                                                                                                                  |                           |                                           |                                                                                     |   |            |                                                                                                                                      |                                                                                                                                                                                                                                                                                            |   |   |           |            |   |   |            |            |

## PREVENT

General Objective: To prevent and reduce the likelihood of outbreaks and other public health hazards and events defined by IHR (2005).

| GOAL                |                                                                                                                                                                                                          | Antimicrobial Resistant                                                                                                                                                                                |                                                                    |                                                                                                                                                                                                                                                |                                                                  |                                                 |                                                                  |                       |                                             |                                     |                        |      |      |      |      | Total Estimated cost (USD)        |            |                                                |            |            |       |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------------------------|-----------------------|---------------------------------------------|-------------------------------------|------------------------|------|------|------|------|-----------------------------------|------------|------------------------------------------------|------------|------------|-------|
| TECHNICAL AREA      |                                                                                                                                                                                                          | Prevention 3                                                                                                                                                                                           |                                                                    |                                                                                                                                                                                                                                                |                                                                  |                                                 |                                                                  |                       |                                             |                                     |                        |      |      |      |      |                                   |            |                                                |            |            |       |
| JEE Indicator       |                                                                                                                                                                                                          | P3.1                                                                                                                                                                                                   |                                                                    | Antimicrobial resistance (AMR) detection                                                                                                                                                                                                       |                                                                  |                                                 |                                                                  |                       |                                             |                                     |                        |      |      |      |      |                                   |            |                                                |            |            |       |
| JEE Scores          |                                                                                                                                                                                                          | 3                                                                                                                                                                                                      |                                                                    |                                                                                                                                                                                                                                                |                                                                  |                                                 |                                                                  |                       |                                             |                                     |                        |      |      |      |      |                                   |            | 5,399,801.47                                   |            |            |       |
| JEE recommendations |                                                                                                                                                                                                          | * Raise awareness among the general public on AMR and among health care workers in human and animal health sectors on surveillance, prudent use of antimicrobials and the importance of good practices |                                                                    |                                                                                                                                                                                                                                                |                                                                  |                                                 |                                                                  |                       |                                             |                                     |                        |      |      |      |      |                                   |            | Total Estimated cost (Local currency) (Kwacha) |            |            |       |
|                     |                                                                                                                                                                                                          | * Increase laboratory capacity on AMR, both in the human and animal health sector and share AMR data across the sectors                                                                                |                                                                    |                                                                                                                                                                                                                                                |                                                                  |                                                 |                                                                  |                       |                                             |                                     |                        |      |      |      |      |                                   |            |                                                |            |            |       |
|                     |                                                                                                                                                                                                          | * Cooperate in a One Health approach between sectors at local, regional and national levels on AMR                                                                                                     |                                                                    |                                                                                                                                                                                                                                                |                                                                  |                                                 |                                                                  |                       |                                             |                                     |                        |      |      |      |      |                                   |            |                                                |            |            |       |
| Objective           |                                                                                                                                                                                                          | To strengthen the AMR detection for both human and animal sectors                                                                                                                                      |                                                                    |                                                                                                                                                                                                                                                |                                                                  |                                                 |                                                                  |                       |                                             |                                     |                        |      |      |      |      |                                   |            | Total cost per year of implementation          |            |            |       |
| No                  | Summary of Planned Activities at National Level (Strategic actions)                                                                                                                                      | "Responsible authority(s) for implementation including budget line holder"                                                                                                                             | Related existing plan/ framework/ Programme or on going activities | "Detailed activities (input description for costing)"                                                                                                                                                                                          | Where is the action to be implemented (National or sub-national) | "Output indicators (Monitoring and Evaluation)" | Comments or Potential challenges                                 | Existing budget (y/n) | Existing budget source (government, donor?) | " Estimated cost (Local currency) " | Year of implementation |      |      |      |      | Total Cost Year in Local Currency |            |                                                |            |            | TOTAL |
|                     |                                                                                                                                                                                                          |                                                                                                                                                                                                        |                                                                    |                                                                                                                                                                                                                                                |                                                                  |                                                 |                                                                  |                       |                                             |                                     | 2018                   | 2019 | 2020 | 2021 | 2022 |                                   |            |                                                |            |            |       |
| 1                   | To sustain the quality and services of laboratories that are able to detect and report priority AMR pathogen aligned with the Global AMR Surveillance System GLASS (for existing nearly 25 laboratories) | MoHS, MoA-LLI, Ministry of Defence                                                                                                                                                                     | National action plan for AMR                                       | (1) To provide TOT and refresher training to improve the capacity of staff to do detect the priority AMR pathogen in country ( <b>human health</b> ) (Participants = 20, Participants away = 15, Days = 3, two times per year for 5 year)      | National                                                         | Number of staff trained and trainings done      | Budget and tight duties and activities by trainers and trainees. | N                     |                                             | 6,110,000                           | 2                      | 2    | 2    | 2    | 2    | 12,220,000                        | 12,220,000 | 12,220,000                                     | 12,220,000 | 61,100,000 |       |
|                     |                                                                                                                                                                                                          |                                                                                                                                                                                                        |                                                                    | (2) To provide TOT and refresher training to improve the capacity of staff to do detect the priority AMR pathogen in country ( <b>veterinary health</b> ) (Participants = 20, Participants away = 15, Days = 3, two times per year for 5 year) | N                                                                | Number of staff trained and trainings done      | Budget and tight duties and activities by trainers and trainees. | N                     |                                             | 6,110,000                           | 2                      | 2    | 2    | 2    | 2    | 12,220,000                        | 12,220,000 | 12,220,000                                     | 12,220,000 | 61,100,000 |       |
|                     |                                                                                                                                                                                                          |                                                                                                                                                                                                        |                                                                    | <b>Multipillar trainings for staff from veterinary health are included in Activities of Zoonotic Disease areas.</b>                                                                                                                            |                                                                  |                                                 |                                                                  |                       |                                             |                                     |                        |      |      |      |      |                                   |            |                                                |            |            |       |

## NATIONAL ACTION PLAN FOR HEALTH SECURITY (NAPHS)

|  |  |  |                                                                                                                                                                                                                                                                 |          |                                                                                                       |                                                                  |   |     |               |                                         |  |    |    |    |    |    |               |               |               |               |               |               |            |
|--|--|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|---|-----|---------------|-----------------------------------------|--|----|----|----|----|----|---------------|---------------|---------------|---------------|---------------|---------------|------------|
|  |  |  | (3) Capacity building on AMR detection of <b>lab professionals</b> through international programme eg., fellowship ( <b>human health</b> )<br>(Travel cost 1000USD, Tuition 4,000 USD, Perdiem and accomodation 2,800 USD, for 2 weeks, 2 people per year)      |          | Number of Professional attended for AMR detection International fellowship Program                    | Budget and tight duties and activities by trainers and trainees. | N |     | 10,296,000    | (1000+4000+2800)<br>USD*1320 MMK        |  |    | 2  | 2  | 2  | 2  | -             | 20,592,000    | 20,592,000    | 20,592,000    | 20,592,000    | 20,592,000    | 82,368,000 |
|  |  |  | (4) Capacity building on AMR detection of <b>lab professionals</b> through international programme eg., fellowship ( <b>veterinary health</b> )<br>(Travel cost 1000USD, Tuition 4,000 USD, Perdiem and accomodation 2,800 USD, for 2 weeks, 2 people per year) |          | Number of Professional attended for AMR detection International fellowship Program                    | Budget and tight duties and activities by trainers and trainees. | N |     | 10,296,000    | (1000+4000+2800)<br>USD*1320 MMK        |  |    | 2  | 2  | 2  | 2  | -             | 20,592,000    | 20,592,000    | 20,592,000    | 20,592,000    | 20,592,000    | 82,368,000 |
|  |  |  | (5) To procure the necessary laboratory materials and equipments, Automatic Identification and Sensitivity Detection of Microorganism (VITEK2) compact machine) 25 laboratories                                                                                 |          | Number of Laboratory Materials, equipment procured                                                    | Budget                                                           | N |     | 1,027,490,000 |                                         |  | 1  | 1  | 1  | 1  | 1  | 1,027,490,000 | 1,027,490,000 | 1,027,490,000 | 1,027,490,000 | 1,027,490,000 | 5,137,450,000 |            |
|  |  |  | (6) To support the logistics (sample preparation, transport, testing) to sustain the NEQMS for AMR detection                                                                                                                                                    |          | Number of sample trasported NEQMS                                                                     | Budget                                                           | N |     | 2,500,000     |                                         |  | 2  | 2  | 2  | 2  | 2  | 5,000,000     | 5,000,000     | 5,000,000     | 5,000,000     | 5,000,000     | 25,000,000    |            |
|  |  |  | (7) Monitoring, supervision & Evaluation visits to S/R hospitals ( <b>human health</b> )<br>2 supervisors * 3days / visit * 5 years                                                                                                                             |          | Number of M & E visit counted                                                                         | Budget                                                           | N |     | 850,000       | 2 * 3 * 31000 + 1 * 132000 * 3 = 850000 |  | 10 | 10 | 10 | 10 | 10 | 8,500,000     | 8,500,000     | 8,500,000     | 8,500,000     | 8,500,000     | 42,500,000    |            |
|  |  |  | (8) Monitoring, supervision & Evaluation visits to townships ( <b>veterinary health</b> )<br>2 supervisors * 3 days per visit * 2 times per year * 5 year                                                                                                       |          | Number of M & E visit counted                                                                         | Budget                                                           | N |     | 850,000       | 2 * 3 * 31000 + 1 * 132000 * 3 = 850000 |  | 2  | 2  | 2  | 2  | 2  | 1,700,000     | 1,700,000     | 1,700,000     | 1,700,000     | 1,700,000     | 8,500,000     |            |
|  |  |  | (9) To provide participation fees for PHL (Mandalay) and NHL (Yongon) to enroll at National IH- Thailand for Internal External Quality Assurance System (IEQAS)                                                                                                 | National | Increase number participating laboratories NEQMS & IEQAS<br><br>Participation in NEQAS and IEQAS done | Training & Technical assistance                                  | Y | WHO | 6,600,000     |                                         |  | 1  | 2  | 2  | 2  | 2  | 6,600,000     | 13,200,000    | 13,200,000    | 13,200,000    | 13,200,000    | 59,400,000    |            |

| P3.2                |                                                                                     | "Surveillance of infections caused by antimicrobial-resistant pathogens"                                                                                                                                                                                                                                                                                                                                                                |                                                                   |                                                                                                                                                                                                                                                                |                                                                  |                                                                                     |                                                        |                          |                                      |                                                     |                                                        |                                   |            |            |            |            |            |            |
|---------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------|--------------------------|--------------------------------------|-----------------------------------------------------|--------------------------------------------------------|-----------------------------------|------------|------------|------------|------------|------------|------------|
| JEE Scores          |                                                                                     | 3                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                   |                                                                                                                                                                                                                                                                |                                                                  |                                                                                     |                                                        |                          |                                      |                                                     |                                                        |                                   |            |            |            |            |            |            |
| JEE recommendations |                                                                                     | * Raise awareness among the general public on AMR and among health care workers in human and animal health sectors on surveillance, prudent use of antimicrobials and the importance of good practices<br>* Increase laboratory capacity on AMR, both in the human and animal health sector and share AMR data across the sectors<br>* Cooperate in a One Health approach between sectors at local, regional and national levels on AMR |                                                                   |                                                                                                                                                                                                                                                                |                                                                  |                                                                                     |                                                        |                          |                                      |                                                     |                                                        |                                   |            |            |            |            |            |            |
| Objective           |                                                                                     | To strengthen the AMR detection for both human and animal sectors                                                                                                                                                                                                                                                                                                                                                                       |                                                                   |                                                                                                                                                                                                                                                                |                                                                  |                                                                                     |                                                        |                          |                                      |                                                     |                                                        |                                   |            |            |            |            |            |            |
| No                  | Summary of Planned Activities at National Level (Strategic actions)                 | "Responsible authority(s) for Implementation including budget line holder"                                                                                                                                                                                                                                                                                                                                                              | Related existing plan/framework/ Programme or on going activities | "Detailed activities (Input description for costing)"                                                                                                                                                                                                          | Where is the action to be implemented (National or sub-national) | "Output indicators (Monitoring and Evaluation)"                                     | Comments or Potential challenges                       | Existing budget-get(y/n) | Existing source (government, donor?) | "Estimated cost (Local currency)"                   | Year of implementation                                 | Total Cost Year in Local Currency |            |            |            | TOTAL      |            |            |
|                     |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                   |                                                                                                                                                                                                                                                                |                                                                  |                                                                                     |                                                        |                          |                                      |                                                     | 2 2 2 2 2 2<br>0 0 0 0 0 0<br>1 1 2 2 2 2<br>8 9 0 1 2 | 2018                              | 2019       | 2020       | 2021       | 2022       | TOTAL      |            |
| 1                   | To develop surveillance system for use of antimicrobial in human and animal sectors | MoHS, MoAU                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                   | (1) Hiring of international Consultant for technical assistance from WHO or other technical agencies for Development of Antibiotic stewardship programme (antibiotic usage) and trainin Module (one international consultant 20 working days/visit * 3 visits) | National                                                         | Antibiotic stewardship programme (antibiotic usage) and trainin Module developed    | availability of Training & Technical assistance Budget | N                        |                                      | 1 * 20 * (238920 + 660000) + 1 * 1584000 = 19562400 | 2 1                                                    |                                   | 39,124,800 | 19,562,400 | -          | -          | -          | 58,687,200 |
|                     |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                   | (2) Stakeholders Workshop/ meeting on Development of Antibiotic stewardship programme (antibiotic usage) and trainin Module (50 participants per meeting, 35 away, for 2 days)                                                                                 | National                                                         | Antibiotic stewardship programme (antibiotic usage) and trainin Module was done     |                                                        | N                        |                                      | 9,935,000                                           | 1                                                      |                                   | 9,935,000  | -          | -          | -          | -          | 9,935,000  |
|                     |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                   | (3) Dessimination workshop/ meeting for Antibiotic stewardship programme (antibiotic usage) and trainin Module (70 participants per meeting, 35 away, for 1 days)                                                                                              | National                                                         | Desimi-nation on Antibiotic stewardship programme (antibiotic usage) work-shop done |                                                        | N                        |                                      | 8,085,000                                           | 1                                                      |                                   | 8,085,000  | -          | -          | -          | -          | 8,085,000  |
|                     |                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                   | (4) Capacity building Training on Antibiotic stewardship programme (antibiotic usage) (50 participants, 30 away, for 3 days, 2 times per Year for 5 Year)                                                                                                      | National                                                         | Number of training Staff trained                                                    |                                                        | N                        |                                      | 8,245,000                                           | 2 2 2                                                  | -                                 | 16,490,000 | 16,490,000 | 16,490,000 | 16,490,000 | 65,960,000 |            |

|   |                                 |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| 2 | Strengthen WHONET data analysis |  |  | (1) Hiring International Consultant for Technical assistance from WHO or other technical agency to support WHONET and training<br>(1 international consultant (1 international consultant (1 international consultant (1 international consultant (1 international consultant (1 international consultant (1 international consultant (1 international consultant (1 international consultant (1 international consultant (1 international consultant (1 international consultant (1 international consultant (1 international consultant (1 international consultant (1 international consultant (1 international consultant (1 international consultant (1 international consultant (1 international consultant (1 international consultant (1 international consultant (1 international consultant (1 international consultant (1 international consultant (1 international consultant (1 international consultant (1 international consultant (1 international consultant (1 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# NATIONAL ACTION PLAN FOR HEALTH SECURITY (NAPHS)

| No | Summary of Planned Activities at National Level (Strategic actions)                                                                                                  | "Responsible authority(s) for Implementation including budget line holder"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Related existing plan/Programme or ongoing activities | "Detailed activities (Input description for costing)" | Where is the action to be implemented (National or sub-national) | "Output indicators (Monitoring and Evaluation)" | Comments or Potential challenges | Existing budget (get/y/n) | Existing budget source (government, donor?) | " Estimated cost (Local currency) " | Year of implementation | Total Cost Year in Local Currency |      |      |      |      |       |
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|    |                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| 2  | Healthcare associated infection (HCAI) prevention and control program To implement according to the Hospital infection prevention and control program in NAP for AMR | NHL- MOHS,<br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br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|                                                       |                                                       |                                                                  |                                                 |                                  |                           |                                             |                                     |                        |                                   |      |      |      |      |       |



| JEE Indicator       | P.3.4                                                                                                                                                                                                  | "Antimicrobial stewardship activities                                                                          |                              |                                                                                                                                                                                                                                                                                                                                                                                                          |          |                                                               |                                                                                                |   |           |                                                                                                                                       |                                                                                                                                                                                                                                                                       |                     |                                                                                                              |            |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------------------------------------------------------|------------------------------------------------------------------------------------------------|---|-----------|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------------------------------------------------------------------------------------------------|------------|
| JEE Scores          | 1                                                                                                                                                                                                      |                                                                                                                |                              |                                                                                                                                                                                                                                                                                                                                                                                                          |          |                                                               |                                                                                                |   |           |                                                                                                                                       |                                                                                                                                                                                                                                                                       |                     |                                                                                                              |            |
| JEE recommendations | * Raise awareness among the general public on AMR and among health care workers in human and animal health sectors on surveillance, prudent use of antimicrobials and the importance of good practices |                                                                                                                |                              |                                                                                                                                                                                                                                                                                                                                                                                                          |          |                                                               |                                                                                                |   |           |                                                                                                                                       |                                                                                                                                                                                                                                                                       |                     |                                                                                                              |            |
|                     | * Increase laboratory capacity on AMR, both in the human and animal health sector and share AMR data across the sectors                                                                                |                                                                                                                |                              |                                                                                                                                                                                                                                                                                                                                                                                                          |          |                                                               |                                                                                                |   |           |                                                                                                                                       |                                                                                                                                                                                                                                                                       |                     |                                                                                                              |            |
|                     | * Cooperate in a One Health approach between sectors at local, regional and national levels on AMR                                                                                                     |                                                                                                                |                              |                                                                                                                                                                                                                                                                                                                                                                                                          |          |                                                               |                                                                                                |   |           |                                                                                                                                       |                                                                                                                                                                                                                                                                       |                     |                                                                                                              |            |
| Objective           | To establish national guideline for AMR prevention and control.                                                                                                                                        |                                                                                                                |                              |                                                                                                                                                                                                                                                                                                                                                                                                          |          |                                                               |                                                                                                |   |           |                                                                                                                                       |                                                                                                                                                                                                                                                                       |                     |                                                                                                              |            |
| 1                   | To achieve regular monitoring by national steering committee for AMR and technical working groups for better coordination and implementation of plan against each objectives                           | MoHS, MoALI, MoE, Ministry of Information, Ministry of Industry, Ministry of Home Affairs, Ministry of Defence | National action plan for AMR | (1) Bi-Annual National Multi Sectoral Steering Committee (NMSC) coordination meetings for To share updates and improve mechanism and submit it to the ministry in first year To have regular coordination and collaboration (30 participants, Away 20, 1 Day, 2 times per year for 5 year)                                                                                                               | National | Number of Meeting done TOR for NMSC & TWG developed           | Implementation of Stewardship activity in Hospital (LIMS) regular participation by each member | N | 4,865,000 | (9000* (30- 20) *1 + 20 * 3 * 30000 + 20 * 95000 + 1 * 250000 ( True ) +30 *1 * (15000True + 10000True) + 30 * 2500True ) * 1 + 0 + 0 | 1 Meeting : Per diem = 9000 Participants = 30 Days = 1, Participants away = 20 Days away = 3 Diem away = 30000Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing cost = 0, Disseminating costs = 0 | 2 2 2 2 2 2 2 2 2 2 | 9,730,000 9,730,000 9,730,000 9,730,000 9,730,000 9,730,000 9,730,000 9,730,000 9,730,000 9,730,000          | 48,650,000 |
|                     |                                                                                                                                                                                                        | MoHS, MoALI, MoE, Ministry of Information, Ministry of Industry, Ministry of Home Affairs, Ministry of Defence | National action plan for AMR | (2a) AMR (National Action Plan for AMR) on <b>Awareness</b> TWG coordination meeting To share updates and improve mechanism and submit it to the ministry in first year To have regular coordination and collaboration discuss annual work plan and progress<br>Total 70 participants (35 from government officials, 25 away, 35 from gencies and organization, 2 days, 2 times per year for 5 years)    | National | Number of TWG meeting done<br>Number of participants attended | Tight schedule by participants Budget                                                          | N | 8,677,500 | (9000* (35- 25) *2 + 25 * 4 * 30000 + 25 * 95000 + 2 * 250000 ( True ) +35 *2 * (15000True + 10000True) + 35 * 2500True ) * 1 + 0 + 0 | 1 Meeting : Per diem = 9000 Participants = 35 Days = 2, Participants away = 25 Days away = 4 Diem away = 30000Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing cost = 0, Disseminating costs = 0 | 1 2 2 2 2 2 2 2 2 2 | 8,677,500 17,355,000 17,355,000 17,355,000 17,355,000 17,355,000 17,355,000 17,355,000 17,355,000 17,355,000 | 78,097,500 |
|                     |                                                                                                                                                                                                        | NHL- MOHS,                                                                                                     | National action plan for AMR | (2b) AMR (National Action Plan for AMR) on <b>Surveillance</b> TWG coordination meeting To share updates and improve mechanism and submit it to the ministry in first year To have regular coordination and collaboration discuss annual work plan and progress<br>Total 70 participants (35 from government officials, 25 away, 35 from gencies and organization, 2 days, 2 times per year for 5 years) | National | Number of TWG meeting done<br>Number of participants attended | Tight schedule by participants Budget                                                          | N | 8,677,500 | (9000* (35- 25) *2 + 25 * 4 * 30000 + 25 * 95000 + 2 * 250000 ( True ) +35 *2 * (15000True + 10000True) + 35 * 2500True ) * 1 + 0 + 0 | 1 Meeting : Per diem = 9000 Participants = 35 Days = 2, Participants away = 25 Days away = 4 Diem away = 30000Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing cost = 0, Disseminating costs = 0 | 1 2 2 2 2 2 2 2 2 2 | 8,677,500 17,355,000 17,355,000 17,355,000 17,355,000 17,355,000 17,355,000 17,355,000 17,355,000 17,355,000 | 78,097,500 |

# NATIONAL ACTION PLAN FOR HEALTH SECURITY (NAPHS)

| No | Summary of Planned Activities at National Level (Strategic actions) | "Responsible authority(s) for implementation including budget line holder" | Related existing plan/ framework / Programme or on going activities | "Detailed activities (input description for costing)"                                                                                                                                                                                                                                                                                                                                                                      | Where is the action to be implemented (National or sub-national) | "Output indicators (Monitoring and Evaluation)"               | Comments or Potential challenges         | Existing budget (get/y/n) | Existing budget source (government, donor?) | "Estimated cost (Local currency)"                                                                                                   |           | Year of implementation | Total Cost Year in Local Currency |      |      |      |           |            |            |            |            |            |
|----|---------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------|------------------------------------------|---------------------------|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------------|-----------------------------------|------|------|------|-----------|------------|------------|------------|------------|------------|
|    |                                                                     |                                                                            |                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                  |                                                               |                                          |                           |                                             |                                                                                                                                     |           |                        | 2018                              | 2019 | 2020 | 2021 | 2022      | TOTAL      |            |            |            |            |
|    |                                                                     |                                                                            |                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                  |                                                               |                                          |                           |                                             |                                                                                                                                     |           |                        |                                   |      |      |      |           |            | 2          | 2          | 2          | 2          |
|    |                                                                     | NHL- MOHS,                                                                 |                                                                     | (2c) AMR (National Action Plan for AMR) on <b>IPC TWG</b> coordination meeting<br>To share updates and improve mechanism and submit it to the ministry in first year<br>To have regular coordination and collaboration discuss annual work plan and progress<br><br>Total 70 participants (35 from government officials, 25 away, 35 from gencies and organization, 2 days, 2 times per year for 5 years)                  | National                                                         | Number of TWG meeting done<br>Number of participants attended | Tight schedule by participants<br>Budget | N                         |                                             | (9000* (35- 25) *2 + 25 * 4 * 30000 + 25 * 95000 + 2 * 250000 (True) +35 * 2 * (15000True + 10000True) + 35 * 2500True) * 1 + 0 + 0 | 8,677,500 | 1                      | 2                                 | 2    | 2    | 2    | 8,677,500 | 17,355,000 | 17,355,000 | 17,355,000 | 17,355,000 | 78,097,500 |
|    |                                                                     | NHL- MOHS,                                                                 |                                                                     | (2d) AMR (National Action Plan for AMR) on <b>Antimicrobial Usage</b> TWG coordination meeting<br>To share updates and improve mechanism and submit it to the ministry in first year<br>To have regular coordination and collaboration discuss annual work plan and progress<br><br>Total 70 participants (35 from government officials, 25 away, 35 from gencies and organization, 2 days, 2 times per year for 5 years)  | National                                                         | Number of TWG meeting done<br>Number of participants attended | Tight schedule by participants<br>Budget | N                         |                                             | (9000* (35- 25) *2 + 25 * 4 * 30000 + 25 * 95000 + 2 * 250000 (True) +35 * 2 * (15000True + 10000True) + 35 * 2500True) * 1 + 0 + 0 | 8,677,500 | 1                      | 2                                 | 2    | 2    | 2    | 8,677,500 | 17,355,000 | 17,355,000 | 17,355,000 | 17,355,000 | 78,097,500 |
|    |                                                                     | NHL- MOHS,                                                                 |                                                                     | (2e) AMR (National Action Plan for AMR) on <b>Research Innovation</b> TWG coordination meeting<br>To share updates and improve mechanism and submit it to the ministry in first year<br>To have regular coordination and collaboration discuss annual work plan and progress<br><br>Total 70 participants (35 from government officials, 25 away, 35 from agencies and organization, 2 days, 2 times per year for 5 years) | National                                                         | Number of TWG meeting done<br>Number of participants attended | Tight schedule by participants<br>Budget | N                         |                                             | (9000* (35- 25) *2 + 25 * 4 * 30000 + 25 * 95000 + 2 * 250000 (True) +35 * 2 * (15000True + 10000True) + 35 * 2500True) * 1 + 0 + 0 | 8,677,500 | 1                      | 2                                 | 2    | 2    | 2    | 8,677,500 | 17,355,000 | 17,355,000 | 17,355,000 | 17,355,000 | 78,097,500 |

|   |                                                                                                                                                                                                          |                                          |                              |                                                                                                                                                                                                                                                                     |                         |                                                          |                                                      |   |            |                                                                                                                                                       |                                                                                                                                                                                                                                                                                     |   |    |    |    |             |             |             |             |               |
|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|----------------------------------------------------------|------------------------------------------------------|---|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----|----|----|-------------|-------------|-------------|-------------|---------------|
| 2 | Establish an evidence-based public communications programme targeting audiences in policy making, human and animal health practice, the general public and professional on prudent use of antimicrobials | MoHS, MoAL, MoE, Ministry of Information | National action plan for AMR | (1) Communication campaign for antibiotic awareness improvement by MoHS and MoAL at central level and 17 states and Regions (100 participants, Away 40, 1 day, Printing & dissemination - 6,600,000 MMK)                                                            | National & sub-national | Number of Awareness Campaign was done                    | Political commitment & community participation       | N | 17,540,000 | (9000* (100 - 40) *1 + 40 * 3* 30000 + 40 * 95000 + 1 * 250000 (True) + 100 * 1 * (15000True) + 100000True) + 100 * 2500True) * 1 + 5000000 + 1600000 | 1 Meeting : Per diem = 9000 Participants = 100 Days = 1, Participants away = 40 Days away = 3 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 500000, Disseminating costs = 1600000 | 6 | 18 | 18 | 18 | 105,240,000 | 315,720,000 | 315,720,000 | 315,720,000 | 1,368,120,000 |
|   |                                                                                                                                                                                                          | MoHS, MoAL,                              |                              | (2) Advocacy Workshop on integration of AMR in to undergraduate and post-graduate curriculum to (50 participants, Away 35, 1 day for 1 times)                                                                                                                       | National                | Number of workshop done                                  | Budget                                               | N | 10,920,000 | (9000* (50 - 35) *2 + 35 * 4* 30000 + 35 * 95000 + 2 * 250000 (True) + 50 * 2 * (15000True) + 100000True) + 50 * 2500True) * 1 + 0 + 0                | 1 Workshop : Per diem = 9000 Participants = 50 Days = 2, Participants away = 35 Days away = 4 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0            | 1 |    |    |    | 10,920,000  | -           | -           | -           | 10,920,000    |
|   |                                                                                                                                                                                                          | MoHS, MoAL,                              |                              | (3) Workshop on Development of therapeutic guidelines for four major subjects (Surgery, Medicine, Obstetric and Gynecology and orthopedic, Pediatric and veterinary (50 participants, Away 35, 1 day for 3 times)                                                   | National                | Number of workshop done                                  | Budget                                               | N | 8,235,000  | (9000* (50 - 35) *1 + 35 * 3* 30000 + 35 * 95000 + 1 * 250000 (True) + 50 * 1 * (15000True) + 100000True) + 50 * 2500True) * 1 + 0 + 0                | 1 Workshop : Per diem = 9000 Participants = 50 Days = 1, Participants away = 35 Days away = 3 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0            | 2 |    |    |    | 16,470,000  | -           | -           | -           | 16,470,000    |
| 3 | Surveillance of irrational usage of antibiotics among clinical practices                                                                                                                                 | MoHS, MoAL,                              |                              | (1) Hiring of International Consultant for Technical assistance from WHO or other technical agency to establish surveillance of irrational usage of antibiotics among clinical practices and training modules (1 international consultant 20 working days, visit 3) |                         |                                                          | Strong and interest academic and professional inputs | N | 19,562,400 | 1* 20 * (238920 + 660000) + 1* 1584000 = 19562400                                                                                                     | Number = 1 : No of Days : 20 : Per diem = 238920, Daily rate = 660000: Travel = 1584000                                                                                                                                                                                             | 3 |    |    |    | -           | 58,687,200  | -           | -           | 58,687,200    |
|   |                                                                                                                                                                                                          | MoHS, MoAL,                              |                              | (2) Stakeholders Workshop/ meeting on surveillance of irrational usage of antibiotics among clinical practices and training modules (50 participants per meeting, 35 away, for 2 days)                                                                              | National                | Surveillance of irrational usage of antibiotics was done | Strong and interest academic and professional inputs | N | 9,935,000  | (9000* (50 - 30) *2 + 30 * 4* 30000 + 30 * 95000 + 2 * 250000 (True) + 50 * 2 * (15000True) + 100000True) + 50 * 2500True) * 1 + 0 + 0                | 1 Workshop : Per diem = 9000 Participants = 50 Days = 2, Participants away = 30 Days away = 4 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0            | 1 |    |    |    | -           | 9,935,000   | -           | -           | 9,935,000     |
|   |                                                                                                                                                                                                          | MoHS, MoAL,                              |                              | (3) Dissemination workshop/ meeting for surveillance of irrational usage of antibiotics among clinical practices and training modules (70 participants per meeting, 35 away, for 2 days)                                                                            | National                | Surveillance of irrational usage of antibiotics was done | Strong and interest academic and professional inputs | N | 8,085,000  | (9000* (70 - 30) *1 + 30 * 3* 30000 + 30 * 95000 + 1 * 250000 (True) + 70 * 1 * (15000True) + 100000True) + 70 * 2500True) * 1 + 0 + 0                | 1 Workshop : Per diem = 9000 Participants = 70 Days = 1, Participants away = 30 Days away = 3 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0            | 1 |    |    |    | -           | 8,085,000   | -           | -           | 8,085,000     |

| No | Summary of Planned Activities at National Level (Strategic actions) | "Responsible authority(s) for Implementation including budget line holder" | Related existing plan/ framework or ongoing activities | "Detailed activities (input description for costing)"                                                                                                                                                                                                                                                                                                                   | Where action to be implemented (National or sub-national) | "Output Indicators (Monitoring and Evaluation)"                       | Comments or Potential challenges                        | Existing budget(y/n) | Existing budget source (government, donor?) | " Estimated cost (Local currency)"                                                                                                               |                                                                                                                                                                                                                                                                               | Year of implementation<br>2018<br>2019<br>2020<br>2021<br>2022 | Total Cost Year in Local Currency |
|----|---------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------------------|---------------------------------------------------------|----------------------|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|-----------------------------------|
|    |                                                                     |                                                                            |                                                        | (4) Training on surveillance of irrational usage of antibiotics among clinical practices for laboratories and medical care staff (25 participants, away 15, 2 times per year for 5 days)                                                                                                                                                                                | National                                                  | Number of training done and number trained staff                      | Strong and interest academic and professional inputs    | N                    |                                             | 9,462,500<br><br>= 15 * 7 * 30000 + 15 * 95000 + 5 * 25000 (True) + 25 * 5 * (15000 True + 10000 True) + 25 * 2500 True ) * 1 + 0 + 0            | 1 Training : Per diem = 9000 Participants = 25 Days = 5, Participants away = 15 Days away = 7 Diem away = 30000 Travel costs participants away = 95000 , Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0     | 2018<br>2019<br>2020<br>2021<br>2022                           | TOTAL                             |
| 4  | Control of human and veterinary use of antimicrobial substance      | MoHS, MoALI,                                                               |                                                        | (1) Hiring of International Consultant for Formulating Regulatory Framework for control of Human and Veterinary use of antimicrobial substances; (1 international consultant, 15 working days, visit 1)<br><br>(2) Stakeholders Workshop/meeting on control of Human and Veterinary use of antimicrobial substances; (50 participants per meeting, 35 away, for 2 days) | National                                                  | Biosafety and biosecurity legislation/law formulated                  | Weakness in Biosafety & Borisk management and practices | N                    |                                             | 15,067,800<br><br>= 1 * 1584000 + 15067800                                                                                                       | Number = 1 ; No of Days : 15 , Per diem = 238920 ; Daily rate = 660000 : Travel = 1584000                                                                                                                                                                                     | 2018<br>2019<br>2020<br>2021<br>2022                           | 15,067,800                        |
|    |                                                                     | NHL, MoHS, LBVD                                                            |                                                        |                                                                                                                                                                                                                                                                                                                                                                         | National                                                  | Comprehensive national biosafety and biosecurity legislation was done |                                                         | N                    |                                             | 9,935,000<br><br>= 30 * 95000 + 2 * 250000 (True) + 50 * 2 * (15000 True + 10000 True) + 50 * 2500 True ) * 1 + 0 + 0                            | 1 Workshop : Per diem = 9000 Participants = 30 Days away = 2, Participants away = 30 Days away = 4 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0 | 2018<br>2019<br>2020<br>2021<br>2022                           | 9,935,000                         |
|    |                                                                     | NHL, MoHS, LBVD                                                            | Other laws/legislation approval                        | (4) laws/legislaon approval from Union Parliament Discussion and defense for law in Meetings with responsible persons from Parliament Union Attorney General Office and other stakeholders (5 times 20 participants)<br><b>This activity will be incorporated with Legislation area activity P1.2.2.1</b>                                                               | Naypyitaw                                                 | Biosafety and biosecurity legislation/law approved                    | time will take place                                    | N                    |                                             | 1,370,000<br><br>= 1 * 1 + 5 * 3 * 30000 + 5 * 95000 + 1 * 250000 ( False ) + 20 * 1 * (15000 False + 10000 True) + 20 * 2500 True ) * 1 + 0 + 0 | 1 Meeting : Per diem = 9000 Participants = 20 Days = 1, Participants away = 5 Days away = 3 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Stationary = 2500, Print Dis = 60000, Printing costs = 0, Disseminating costs = 0                    | 2018<br>2019<br>2020<br>2021<br>2022                           | -                                 |
|    |                                                                     | NHL, MoHS, LBVD                                                            |                                                        | (5) one dissemination workshop/meeting for control of Human and Veterinary use of antimicrobial substances, (70 participants per meeting, 35 away, for 2 days)                                                                                                                                                                                                          | National                                                  | Comprehensive national biosafety and biosecurity legislation was done |                                                         | N                    |                                             | 8,085,000<br><br>= 1 * 1 + 5 * 3 * 30000 + 30 * 95000 + 1 * 250000 ( True ) + 70 * 1 * (15000 True + 10000 True) + 70 * 2500 True ) * 1 + 0 + 0  | 1 Workshop : Per diem = 9000 Participants = 70 Days = 1, Participants away = 30 Days away = 3 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0      | 2018<br>2019<br>2020<br>2021<br>2022                           | 8,085,000                         |

|   |                                                                             |                  |                              |                                                                                                                                                                                                                                        |                                  |                                |   |  |            |                                                                                                                                           |                                                                                                                                                                                                                                                                        |   |   |   |   |   |            |            |            |            |            |            |
|---|-----------------------------------------------------------------------------|------------------|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------|---|--|------------|-------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|---|---|------------|------------|------------|------------|------------|------------|
| 5 | Strengthen National Regulatory Agency (NRA) or Drug Regulatory Agency (DRA) | MoHS, MoAL, MoAL | National action plan for AMR | (1) Coordination meeting on regulations and quality checks for Antimicrobials agents (AMAs), Active Pharmaceutical Ingredients (API) and Over the counter (OTC) sales. (50 participants, Away 35, 2 days, 2 times per year for 5 Year) | National and checklist developed | Difficult in placing practices | N |  | 10,920,000 | $(9000 * (50 - 35) * 2 + 35 * 4 * 30000 + 35 * 95000 + 2 * 250000 (True) + 50 * 2 * (15000True + 10000True) + 50 * 2500True) * 1 + 0 + 0$ | 1 Meeting : Per diem = 9000 Participants = 50 Days = 2 Participants away = 35 Days away = 4 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0 | 2 | 2 | 2 | 2 | 2 | 21,840,000 | 21,840,000 | 21,840,000 | 21,840,000 | 21,840,000 | 87,360,000 |
|---|-----------------------------------------------------------------------------|------------------|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------|---|--|------------|-------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|---|---|------------|------------|------------|------------|------------|------------|

**General Objective:** To prevent and reduce the likelihood of outbreaks and other public health hazards and events defined by IHR (2005).

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# NATIONAL ACTION PLAN FOR HEALTH SECURITY (NAPHS)

|   |                                                                                                                                                 |                         |                                                                                 |                                                                                                                                                                                                                                             |                           |                                                                                  |                                                  |   |  |             |                                                                                                                                         |                                                                                                                                                                                                                                                                            |     |     |     |     |  |  |             |             |             |             |             |               |             |             |
|---|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------------------------------------------------------------------|--------------------------------------------------|---|--|-------------|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|-----|--|--|-------------|-------------|-------------|-------------|-------------|---------------|-------------|-------------|
| 2 | Developing joint Training program for public and animal health                                                                                  | MoHS,MoALI, MoHREC, MoD | Under OH strategic Frame Work                                                   | (1) Hiring of International Consultant for Development of Training Modules on surveillance, preparedness, detect and response to zoonotic events (diseases/pathogens) by reviewing of Training program (1 International Consultant, 10 day) | National and sub-national | Number of training module/ programs,                                             | limited human resources and competing priorities | N |  | 10,573,200  | 1* 10* (238920 + 660000) + 1* 1584000 = 10573200                                                                                        | Number = 1 ; No of Days : 10 ; Per diem = 238920 ; Daily rate = 660000 ; Travel = 1584000                                                                                                                                                                                  | 1   |     |     |     |  |  | -           | 10,573,200  | -           | -           | -           | -             | 10,573,200  |             |
|   |                                                                                                                                                 | MoHS,MoALI, MoHREC, MoD | Under OH strategic Frame Work                                                   | (2) Training on preparedness, detect and response to zoonotic events (diseases/pathogens) for Public health and Animal Health Professionals at Central level (50 participants, Away 35, 3 days, 4 times per year)                           | National and sub-national | Number of staff well trained                                                     | limited human resources and competing priorities | N |  | 13,655,000  | (9000* (50- 35 ) + 35 * 35 * 5* 30000 + 35 * 95000 + 3 * 250000 ( True) +50 * 3 * (15000True + 10000True) + 50 * 2500True ) * 1 + 0 + 0 | 1 Training : Per diem = 9000/Participants = 50 Days = 3, Participants away = 35 Days away = 5 Diem away = 30000 Travel costs participants away = 95000 , Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000 ; Printing costs = 0, Disseminating costs = 0 | 4   | 4   | 4   | 4   |  |  |             |             | 54,620,000  | 54,620,000  | 54,620,000  | 54,620,000    | 54,620,000  | 218,480,000 |
|   |                                                                                                                                                 | MoHS,MoALI, MoHREC, MoD | Under OH strategic Frame Work                                                   | (3) Training on preparedness, detect and response to for Public Health and Animal Health Professional at State and Regional level (20 participants, Away 0, 2 days, 35 times per year)                                                      | National and sub-national | Number of staff well trained                                                     | limited human resources and competing priorities | N |  | 1,910,000   | (9000* (20- 0) + 2* 0 + 0 * 4 * 30000 + 0 * 95000 + 2 * 250000 ( True) +20 * 2 * (15000True + 10000True) + 20 * 2500True ) * 1 + 0 + 0  | 1 Training : Per diem = 9000/Participants = 20 Days = 2, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000 ; Printing costs = 0, Disseminating costs = 0                                                                                                 | 35  | 35  | 35  | 35  |  |  |             |             | 66,850,000  | 66,850,000  | 66,850,000  | 66,850,000    | 267,400,000 |             |
| 3 | Strengthening Education and awareness raising by implementing National Awareness Campaign (OH day, Antibiotic awareness week, world rabies day) | MoHS,MoALI, MoHREC      | Annual participation in zoonotic disease/ OH day, Ab awareness day, rabies day) | (1) Hiring National Consultant for development of IEC material development (pamphlet, poster, video, TV talk, billboards) (1 National Consultant, 60 days)                                                                                  | All level                 | Number and type of IECs developed                                                | HR, budget, community participation              | N |  | 16,800,000  | 1* 60* (80000 + 200000) + 1* 0 = 16800000                                                                                               | Number = 1 ; No of Days : 60 ; Per diem = 80000 ; Daily rate = 200000 ; Travel = 0                                                                                                                                                                                         | 1   |     |     |     |  |  | -           | 16,800,000  | -           | -           | -           | -             | 16,800,000  |             |
|   |                                                                                                                                                 | MoHS,MoALI, MoHREC      | Annual participation in zoonotic disease/ OH day, Ab awareness day, rabies day) | (2) Producing and Printing of IEC material developed (pamphlet- 1,000,000, poster - 100,000, video - 5, TV talk , billboards - 100)                                                                                                         | All level                 | no of IEC developed and produced.                                                | HR, budget, community participation              | N |  | 180,000,000 |                                                                                                                                         |                                                                                                                                                                                                                                                                            | 1   | 1   |     |     |  |  | -           | 180,000,000 | -           | 180,000,000 | -           | 180,000,000   | 360,000,000 |             |
|   |                                                                                                                                                 | MoHS,MoALI, MoHREC      | Annual participation in zoonotic disease/ OH day, Ab awareness day, rabies day) | (3) Awareness raising event on <b>One Health Day</b> at 340 townships in Country (50 participant, Away 0, 1 day, 340 times per year)                                                                                                        | All level                 | reduce incidence of diseases and community participation improved, PPP improved. | HR, budget, community participation              | N |  | 2,075,000   | (9000* (50- 0) + 1* 0 + 3 * 30000 + 0 * 95000 + 1 * 250000 ( True) +50 * 1 * (15000True + 10000True) + 50 * 2500True ) * 1 + 0 + 0      | 1 Workshop : Per diem = 9000/Participants = 50 Days = 1, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000 ; Printing costs = 0, Disseminating costs = 0                                                                                                 | 340 | 340 | 340 | 340 |  |  | 705,500,000 | 705,500,000 | 705,500,000 | 705,500,000 | 705,500,000 | 3,527,500,000 |             |             |



## NATIONAL ACTION PLAN FOR HEALTH SECURITY (NAPHS)

| No | Summary of Planned Activities at National Level (Strategic actions)                                                         | "Responsible authority(s) for Implementation including budget line holder" | Related existing plan/ Framework or on going activities                     | "Detailed activities (input description for costing)"                                                                                                                                                                   | Where is the action to be implemented (National or sub-national) | "Output indicators (Monitoring and Evaluation)"                                  | Comments or Potential challenges                 | Existing budget (government, donor?) | "Estimated cost (Local currency)" | Year of implementation                                                                                                                      | Total Cost Year in Local Currency |      |      |      |      |             |             |             |             |               |
|----|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------------------------------------|--------------------------------------------------|--------------------------------------|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------|------|------|------|-------------|-------------|-------------|-------------|---------------|
|    |                                                                                                                             |                                                                            |                                                                             |                                                                                                                                                                                                                         |                                                                  |                                                                                  |                                                  |                                      |                                   |                                                                                                                                             | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL       |             |             |             |               |
|    |                                                                                                                             |                                                                            |                                                                             |                                                                                                                                                                                                                         |                                                                  |                                                                                  |                                                  |                                      |                                   |                                                                                                                                             |                                   |      |      |      |      |             | 2018        | 2019        | 2020        | 2021          |
|    |                                                                                                                             | MoHS, MoLL, MoNREC                                                         | Annual participation in zoonotic disease OH day, Awareness day, rabies day) | (4) Awareness raising event on <b>Antibiotic Awareness Week</b> at 340 townships in Country (50 participant, Away 0, 1 day, 3-40 times per year)                                                                        | All level                                                        | reduce incidence of diseases and community participation improved, PPP improved. | HR, budget, community participation              | N                                    | 2,075,000                         | (9000* (50 - 0) + 0 * 3 * 30000 + 0 * 95000 + 1 * 250000 (True) + 50 * 1 * (15000True + 10000True) + 50 * 2500True) * 1 + 0 + 0             | 340                               | 340  | 340  | 340  | 340  | 705,500,000 | 705,500,000 | 705,500,000 | 705,500,000 | 3,527,500,000 |
|    |                                                                                                                             | MoHS, MoLL, MoNREC                                                         | Annual participation in zoonotic disease OH day, Awareness day, rabies day) | (5) Awareness raising event on <b>World Rabies Day</b> at 350 townships in Country (50 participant, Away 0, 1 day, 350 times per year)                                                                                  | All level                                                        | reduce incidence of diseases and community participation improved, PPP improved. | HR, budget, community participation              | N                                    | 2,075,000                         | (9000* (50 - 0) + 0 * 3 * 30000 + 0 * 95000 + 1 * 250000 (True) + 50 * 1 * (15000True + 10000True) + 50 * 2500True) * 1 + 0 + 0             | 350                               | 350  | 350  | 350  | 350  | 726,250,000 | 726,250,000 | 726,250,000 | 726,250,000 | 3,631,250,000 |
| 4  | Development of <b>coordination mechanism</b> for interagency response team for in the event of suspected zoonotic outbreaks | MoHS, MoLL, MoNREC, MoD                                                    | Contingency plan for Avian Influenza- AI National rapid response team       | (1) Workshop/meeting on Development of TOR for RRT, SoP Guideline and Training Module including simulation exercise modules of coordination mechanism for Rapid Respond team (50 participants, Away 30, 3 days, 1 time) | National and sub-national                                        | Coordination mechanism and readiness of response team was established.           | limited human resources and competing priorities | N                                    | 25,130,600                        | (9000* (50 - 30) + 3 + 30 * 5 * 30000 + 30 * 95000 + 3 * 250000 (True) + 50 * 3 * (15000True + 10000True) + 50 * 2500True) * 2 + 100000 + 0 | 1                                 |      |      |      |      | -           | 25,130,600  | -           | -           | 25,130,600    |
|    |                                                                                                                             | MoHS, MoLL, MoNREC, MoD                                                    | Contingency plan for Avian Influenza- AI National rapid response team       | (2) Hiring of International consultant for Development of TOR, SoP, Guideline and Training Module including simulation exercise module for Rapid Respond team (1 International Consultant, 10 days)                     | National and sub-national                                        | Coordination mechanism and readiness of response team was established.           | limited human resources and competing priorities | N                                    | 10,573,200                        | 1 * 10 * (238920 + 660000) + 1 * 1584000 = 10573200                                                                                         | 1                                 |      |      |      |      | -           | 10,573,200  | -           | -           | 10,573,200    |
|    |                                                                                                                             | MoHS, MoLL, MoNREC, MoD                                                    | Contingency plan for Avian Influenza- AI National rapid response team       | (3) Training and simulation exercise for RRT in the event of suspected zoonotic outbreaks. (50 participants, Away 0, 2 days, 15 trainings per year)                                                                     | National and sub-national                                        | No of staff well trained                                                         | limited human resources and competing priorities | N                                    | 4,025,000                         | (9000* (50 - 0) + 0 * 4 * 30000 + 0 * 95000 + 2 * 250000 (True) + 50 * 2 * (15000True + 10000True) + 50 * 2500True) * 1 + 0 + 0             | 15                                | 15   | 15   | 15   | 15   | 60,375,000  | 60,375,000  | 60,375,000  | 60,375,000  | 301,875,000   |
| 5  | Development (improvement) of surveillance for prioritized zoonotic diseases or reporting, Feedback and actions              | MoHS, MoLL, MoNREC                                                         | AI, Rabies, AMR surveillance activities                                     | (1) Coordination Meeting on improvement of surveillance to implement prioritized zoonotic diseases such as AI, Rabies, AMR (100 participant, 0 Away, 2 days, 2 times per year)                                          | National and sub-national                                        | Surveillance indicators- no. of supervisory visits                               | limited human resources and competing priorities | N                                    | 7,550,000                         | (9000* (100 - 0) + 2 + 0 * 4 * 30000 + 0 * 95000 + 2 * 250000 (True) + 100 * 2 * (15000True + 10000True) + 100 * 2500True) * 1 + 0 + 0      | 2                                 | 2    | 2    | 2    | 2    | 15,100,000  | 15,100,000  | 15,100,000  | 15,100,000  | 75,500,000    |

|   |                                                 |                                                           |                                                                                                                                                                                                                                     |                           |                                                                                 |                                                         |   |  |           |                                                                                                                                                                        |                                                                                                                                                                                                                                                                          |                                                                                                                                                                           |   |   |   |            |            |            |            |             |            |
|---|-------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------|---|--|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|------------|------------|------------|------------|-------------|------------|
|   | MoHS, MoALI, MoHREC                             | Feed back meeting/ workshop on AI surveillance activities | (2) Routine Meeting on development of reporting mechanism and identification of format for relevant department for reporting including Annual Reporting, 0 Away, 2 (100 participant, 0 Away, 2 days, 2 times per Year)              | National and sub-national | Routing meeting for information sharing Annual reporting to relevant Ministries | limited human resources and competing priorities        | N |  |           | 7,550,000                                                                                                                                                              | $(9000^* (100 - 0) + 2^* 0 + 0^* 4^* 30000 + 0^* 95000 + 2^* 250000) (\text{True}) + 100^* 2^* (15000\text{True} + 10000\text{True}) + 100^* 2500\text{True})^* 1 + 0 + 0$                                                                                               | 1 Meeting : Per diem = 9000 Participants = 100 Days = 2, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0 | 2 | 2 | 2 | 2          | 15,100,000 | 15,100,000 | 15,100,000 | 15,100,000  | 75,500,000 |
| 6 | Strengthening laboratory capacity and upgrading | MoHS, MoALI, BSL 2+) facility                             | (1) Maintenance Program for existing BSL 2+ facilities, biosafety and biosecurity laboratory                                                                                                                                        | National                  | validate test result and improve QA/QC, sustainable BSL2+ facilities done       |                                                         | N |  | 7,504,000 |                                                                                                                                                                        |                                                                                                                                                                                                                                                                          | 1                                                                                                                                                                         | 1 | 1 | 1 | 7,504,000  | 7,504,000  | 7,504,000  |            | 37,520,000  |            |
|   |                                                 | Biosafety level 2 (BSL 2+) facility                       | (2) <b>Multiplier training on Biosafety and Biosecurity</b> for Animal sector 20 participants (15- away) 2-day training <b>(TOT training will be at Biosafety and Biosecurity area plan)</b>                                        | National                  | number of staff trained as multiplier for biosafety and biosecurity             | Funding                                                 | N |  | 4,865,000 | $(9000^* (20 - 15) + 2^* 15 + 4^* 30000 + 15^* 95000 + 2^* 250000) (\text{True}) + 20^* 2^* (15000\text{True} + 10000\text{True}) + 20^* 2500\text{True})^* 1 + 0 + 0$ | 1 Training : Per diem = 9000 Participants = 20 Days = 2, Participants away = 15 Days away = 4 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0 | 2                                                                                                                                                                         | 2 | 2 | 2 | -          | 9,730,000  | 9,730,000  |            | 29,190,000  |            |
|   | MoHS joint LBVD                                 | Biosafety level 2 (BSL 2+) facility                       | (3) <b>Multiplier training on</b> improve the capacity of staff to do <b>detect the priority AMR pathogen in country</b> for Animal sector 20 participants (15- away) 2-day training <b>(TOT training will be at AMR area plan)</b> | National                  | number of staff trained as multiplier for biosafety and biosecurity             | Funding                                                 | N |  | 4,865,000 | $(9000^* (20 - 15) + 2^* 15 + 4^* 30000 + 15^* 95000 + 2^* 250000) (\text{True}) + 20^* 2^* (15000\text{True} + 10000\text{True}) + 20^* 2500\text{True})^* 1 + 0 + 0$ | 1 Training : Per diem = 9000 Participants = 20 Days = 2, Participants away = 15 Days away = 4 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0 | 2                                                                                                                                                                         | 2 | 2 | 2 | -          | 9,730,000  | 9,730,000  |            | 29,190,000  |            |
|   | MoHS joint LBVD                                 | Biosafety level 2 (BSL 2+) facility                       | (4) <b>International fellowship program on Biosafety and Biosecurity</b> 1 weeks Travel cost @ 1000USD Tuition @2,000 Perdiem and accommodation @ 2,800 2 people per year                                                           | International             | number of staff trained on international program for biosafety and biosecurity  | Funding                                                 | N |  | 7,656,000 |                                                                                                                                                                        |                                                                                                                                                                                                                                                                          | 2                                                                                                                                                                         | 2 | 2 | 2 | 15,312,000 | 15,312,000 | 15,312,000 |            | 76,560,000  |            |
|   | MoHS, MoALI BSL 2+ facility                     |                                                           | (5) Workshop/meeting on harmonization of the laboratory tests. (15 Participants, Away 13, 3 days, 4 meetings per year)                                                                                                              | National                  | Number of meeting for harmonization of laboratory test done                     | Participation and interest of stakeholders in workshops | N |  | 5,151,500 | $(9000^* (15 - 13) + 3^* 13 + 5^* 30000 + 13^* 95000 + 3^* 250000) (\text{True}) + 15^* 3^* (15000\text{True} + 10000\text{True}) + 15^* 2500\text{True})^* 1 + 0 + 0$ | 1 Meeting : Per diem = 9000 Participants = 15 Days = 3, Participants away = 13 Days away = 5 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0  | 4                                                                                                                                                                         | 4 | 4 | 4 | 20,606,000 | 20,606,000 | 20,606,000 |            | 103,030,000 |            |

| EE Indicator       | P.4.2                                                                                                                              | Animal Health and Veterinarian Workforce                                   |                                                                    |                                                                                                                                                                                                                                                                                       |                                                               |                                                                         |                                           |                        |                                             |                                                                                                                                    |                        |  |  |  |                                   |  |  |  |             |  |  |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------|------------------------|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|------------------------|--|--|--|-----------------------------------|--|--|--|-------------|--|--|
| EE Scores          | 3                                                                                                                                  |                                                                            |                                                                    |                                                                                                                                                                                                                                                                                       |                                                               |                                                                         |                                           |                        |                                             |                                                                                                                                    |                        |  |  |  |                                   |  |  |  |             |  |  |
| EE recommendations | * expend the animal health workforce and organize continus education for existing workforce on local, regional and national levels |                                                                            |                                                                    |                                                                                                                                                                                                                                                                                       |                                                               |                                                                         |                                           |                        |                                             |                                                                                                                                    |                        |  |  |  |                                   |  |  |  |             |  |  |
| Objective          | To strengthen and expert Veterinary workforce upto subnational level                                                               |                                                                            |                                                                    |                                                                                                                                                                                                                                                                                       |                                                               |                                                                         |                                           |                        |                                             |                                                                                                                                    |                        |  |  |  |                                   |  |  |  |             |  |  |
| No                 | Summary of Planned Activities at National Level (Strategic actions)                                                                | "Responsible authority(s) for Implementation including budget line holder" | Related existing plan/ framework/ Programme or on going activities | "Detailed activities (input description for costing)"                                                                                                                                                                                                                                 | Where the action to be implemented (National or sub-national) | "Output indicators (Monitoring and Evaluation)"                         | Comments or Potential challenges          | Existing bud- get(y/n) | Existing budget source (government, donor?) | "Estimated cost (local currency)"                                                                                                  | Year of Implementation |  |  |  | Total Cost Year in Local Currency |  |  |  | TOTAL       |  |  |
|                    |                                                                                                                                    |                                                                            |                                                                    |                                                                                                                                                                                                                                                                                       |                                                               | 2 2 2 2 2 2 0 0 0 0 1 1 1 2 2 2 8 9 0 1 2                               |                                           |                        |                                             |                                                                                                                                    |                        |  |  |  |                                   |  |  |  |             |  |  |
| 1                  | Developing and conducting Joint training program for disease Prevention, Control and response                                      | MOHS joint LBVD                                                            | risk assessment, risk communication, risk management               | (1) Workshop/Meeting for development of Joint Training program and module including simulation exercises for more collaboration with MOHS and LBVD, MoHLI (50 participant, Away 50, 7 days, 1 times)                                                                                  | National and sub-national                                     | Joint training program developed and oint activities increased          | N                                         |                        |                                             | (9000* 50- 50 ) *7 + 50 * 9 * 30000 + 50 * 95000 + 7 * 250000 ( True ) +50 *7*(15000True + 10000True) + 50 * 2500True ) *1 + 0 + 0 | 1                      |  |  |  |                                   |  |  |  | 31 275 500  |  |  |
|                    |                                                                                                                                    | MOHS joint LBVD                                                            | risk assessment, risk communication, risk management               | (2) hiring international and national for development of Joint Training Program and module including simulation exercises prevention, control and response (1 international, 30 days)                                                                                                 | National and sub-national                                     | Joint training program developed and oint activities increased          | N                                         |                        |                                             | 1 * 30 * 80000 + 200000 ) + 1 * 1 = 8400001                                                                                        | 1                      |  |  |  |                                   |  |  |  | 8 400 001   |  |  |
|                    |                                                                                                                                    | MOHS joint LBVD                                                            | risk assessment, risk communication, risk management               | (3) Training on Joint training Program including Joint simulation exercise for staff from both sectors (50 participant, Away 50, 7 days, 1 times per year)                                                                                                                            | National and sub-national                                     | Training and numbers of trainees for joint activities increased         | Tight schedules by stakeholder for delays | N                      |                                             | (9000* 50- 50 ) *7 + 50 * 9 * 30000 + 50 * 95000 + 7 * 250000 ( True ) +50 *7*(15000True + 10000True) + 50 * 2500True ) *1 + 0 + 0 | 1 1 1 1 1 1            |  |  |  |                                   |  |  |  | 156 377 500 |  |  |
|                    |                                                                                                                                    | MOHS joint LBVD                                                            | risk assessment, risk communication, risk management               | (4) To conduct Joint Field/site visit for more collaboration with MOHS AND LBVD (3 person, 15 days per visit 1 times per year)                                                                                                                                                        | National and sub-national                                     | number of Field/site visit for joint activities increased               | Tight schedules by stakeholder for delays | N                      |                                             | 15 * 3 * 31000 + 3 * 132000 * 3 = 2583000                                                                                          | 1 1 1 1 1 1            |  |  |  |                                   |  |  |  | 12 915 000  |  |  |
|                    |                                                                                                                                    | MOHS joint LBVD                                                            | risk assessment, risk communication, risk management               | (5) To conduct Joint Outbreak Response and surveillance for more collaboration with MOHS AND LBVD (10 members, 7 days visit, 2 times per year for outbreaks, response and surveillance) 15 times of this activity are included in activity D.2.1.12 under Real Time surveillance area | National and sub-national                                     | Number of joint response and surveillance by joint activities increased | Tight schedules by stakeholder for delays | N                      |                                             | 10 * 7 * 31000 + 10 * 95000 + 1 * 132000 * 7 + 7 * 1 * 26000 = 4226000                                                             | 2 2 2 2 2 2            |  |  |  |                                   |  |  |  | 42 260 000  |  |  |

# NATIONAL ACTION PLAN FOR HEALTH SECURITY (NAPHS)

|   |                                                                                               |                      |                                                                                                                                                                                                                                             |                          |                                                                         |                                                         |   |                                                                                                                                                         |                                                                                                                                                                                                                                                                          |    |    |    |    |             |             |             |             |             |               |
|---|-----------------------------------------------------------------------------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------------------------------------------------------------|---------------------------------------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|----|-------------|-------------|-------------|-------------|-------------|---------------|
| 2 | Development and strengthening field veterinary workforce FETPV                                | MOHS joint LBVD, MoD | (1) FETPV (District) subnational level for national training programs (for all level of training course) (20 participants, 20 Away, 5 days, 70 trainings per Year) (Total 1400 staff - 20 Deputy District Veterinary Officers/20 districts) | National and subnational | epedemid-ogist at all level trained                                     | Tight training schedules due to high training frequency | N | 6,450,000<br>$(9000 * (0 - 20) * 5 + 20 * 7 * 30000 + 20 * 95000 + 5 * 250000 (True) + 0 * 5 * (15000True + 10000True) + 0 * 2500True) * 1 + 0 + 0$     | 1 Meeting : Per diem = 9000 Participants = 0 Days = 5, Participants away = 20 Days away = 7 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0   | 70 | 70 | 70 | 70 | 451,500,000 | 451,500,000 | 451,500,000 | 451,500,000 | 451,500,000 | 2,257,500,000 |
|   |                                                                                               | MOHS joint LBVD, MoD | (2) FETPV (District) subnational level for International training programs (2per person per year, 30 days in MMK) +- round trip                                                                                                             | National and subnational | epedemid-ogist at all level trained                                     | Timely processing to go to the program                  | N | 9,400,000                                                                                                                                               |                                                                                                                                                                                                                                                                          | 2  | 2  | 2  | 2  | 2           | 18,800,000  | 18,800,000  | 18,800,000  | 18,800,000  | 94,000,000    |
| 3 | Strengthening continuous education on zoonotic disease and Emerging infectious disease (EID ) | MOHS joint LBVD      | (1) Hiring of Expert consultation for developing Tools and materials materials, training module, simulation exercise for EID, biosafety, private and public veterinarian reporting training (1 International Consultant, 20 days)           | National and subnational | continuous education to all veterinarians done                          |                                                         | N | 19,562,400 + 660000 + 1 * 1584000 = 19562400                                                                                                            | Number = 1 : No of Days : 20, Per diem = 238920 ; Daily rate = 660000 : Travel = 1584000                                                                                                                                                                                 | 1  |    |    |    | -           | 19,562,400  | -           | -           | 19,562,400  |               |
|   |                                                                                               | MOHS joint LBVD      | (2) Workshop/meeting for development of Tools and materials materials, training module, simulation exercise for EID, biosafety, private and public veterinarian reporting training (50 participants, 30 Away, 3 days, 2 times)              | National and subnational | continuous education to all veterinarians done                          | Awareness raised by community                           | N | 12,515,000<br>$(9000 * (50 - 30) * 3 + 30 * 5 * 30000 + 30 * 95000 + 3 * 250000 (True) + 50 * 3 * (15000True + 10000True) + 50 * 2500True) * 1 + 0 + 0$ | 1 Workshop : Per diem = 9000 Participants = 50 Days = 3, Participants away = 30 Days away = 5 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0 | 2  |    |    |    | -           | 25,030,000  | -           | -           | 25,030,000  |               |
|   |                                                                                               | MOHS joint LBVD      | (3) Dissemination workshop/meeting for guideline, tools and materials materials, training module, simulation exercise for EID, biosafety, private and public veterinarian reporting training (60 participants, 20 Away, 1 days, 1 times)    | National and subnational | continuous education to all veterinarians done                          | Awareness raised by community                           | N | 6,010,000<br>$(9000 * (60 - 20) * 1 + 20 * 5 * 30000 + 20 * 95000 + 1 * 250000 (True) + 60 * 1 * (15000True + 10000True) + 60 * 2500True) * 1 + 0 + 0$  | 1 Meeting : Per diem = 9000 Participants = 60 Days = 1, Participants away = 20 Days away = 3 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0  | 1  |    |    |    | -           | 6,010,000   | -           | -           | 6,010,000   |               |
|   |                                                                                               | MOHS joint LBVD      | (4) Training on guideline, Tools and materials, training module, simulation exercise for EID, biosafety, private and public veterinarian reporting training for veterinary Staff (50 participants, 30 Away, 3 days, 2 times per Year)       | National and subnational | Number of staff trained, continuous education to all veterinarians done | Awareness raised by community                           | N | 12,515,000<br>$(9000 * (50 - 30) * 3 + 30 * 5 * 30000 + 30 * 95000 + 3 * 250000 (True) + 50 * 3 * (15000True + 10000True) + 50 * 2500True) * 1 + 0 + 0$ | 1 Meeting : Per diem = 9000 Participants = 50 Days = 3, Participants away = 30 Days away = 5 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0  | 2  | 2  | 2  | 2  | 2           | 25,030,000  | 25,030,000  | 25,030,000  | 25,030,000  | 125,150,000   |

## NATIONAL ACTION PLAN FOR HEALTH SECURITY (NAPHS)

[illegible]

| JEE Indicator       | P.4.3                                                                                                                                   | Mechanisms for responding to infectious zoonoses are established and functional |                                               |                                                                                                                                                                                                          |                          |                                                               |                                               |   |             |                                                                                                                                         |                                                                                                                                                                                                                                                                          |   |   |           |            |            |               |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------------------------------------------------|-----------------------------------------------|---|-------------|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|-----------|------------|------------|---------------|
| JEE Scores          | 2                                                                                                                                       |                                                                                 |                                               |                                                                                                                                                                                                          |                          |                                                               |                                               |   |             |                                                                                                                                         |                                                                                                                                                                                                                                                                          |   |   |           |            |            |               |
| JEE recommendations | * Establish information sharing systems, joint simulation exercises and formal coordination mechanisms between LBVD and DoPH            |                                                                                 |                                               |                                                                                                                                                                                                          |                          |                                                               |                                               |   |             |                                                                                                                                         |                                                                                                                                                                                                                                                                          |   |   |           |            |            |               |
| Objective           | To establish effective coordination and information sharing mechanisms among sectors                                                    |                                                                                 |                                               |                                                                                                                                                                                                          |                          |                                                               |                                               |   |             |                                                                                                                                         |                                                                                                                                                                                                                                                                          |   |   |           |            |            |               |
| 1                   | Formal coordination and information sharing mechanism between LBVD and DoPH, other Stakeholders                                         | Joint (LBVD- MoALI, MoHS, MoNREC)                                               | joint outbreak and surveillance report to OIE | (1) Meeting/workshop for Disease specific regular exercise, to develop formal information sharing mechanism and MOU or agreement) among three sectors, (60 participant, 20 away, 2 day, 1 times)         | National/-subnational    | Formalized coordination and reporting and system in place MOU | coordination and collaboration Timely sharing | N | 8,670,000   | (9000* (60 - 20) + 20 * 4 * 30000 + 20 * 95000 + 2 * 250000 ( True) +60 * 2 * (15000True + 10000True) + 60 * 2500True) * 1 + 0 + 0      | 1 Meeting : Per diem = 9000 Participants = 60 Days = 2, Participants away = 20 Days away = 4 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0  | 1 | - | 8,670,000 | -          | 8,670,000  |               |
|                     |                                                                                                                                         | Joint (LBVD- MoALI, MoHS, MoNREC)                                               | joint outbreak and surveillance report to OIE | (2) Regular quarterly Coordination meeting for Disease specific regular exercise and formal information sharing mechanism among three sectors, (30 participant, 10 away, 1 day, 4 times per year)        | National/-subnational    | Formalized coordination and reporting and system in place MOU | coordination and collaboration Timely sharing | N | 3,105,000   | (9000* (30 - 10) + 10 * 3 * 30000 + 10 * 95000 + 1 * 250000 ( True) +30 * 1 * (15000True + 10000True) + 30 * 2500True) * 1 + 0 + 0      | 1 Meeting : Per diem = 9000 Participants = 30 Days = 1, Participants away = 10 Days away = 3 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0  | 4 | 4 | 4         | 12,420,000 | 12,420,000 | 49,680,000    |
| 2                   | Strengthening of emergency response at all level (Table top exercise)                                                                   | Joint (LBVD- MoALI, MoHS, MoNREC)                                               | LBVD, FAO, MoHS                               | (1) Quarterly Meeting on Table Top exercise (50 participants, 30 Away, 2 days, 4 times per year)                                                                                                         | National/-subnational    | Exercises done                                                | regular exercises                             | Y | 9,985,000   | (9000* (50 - 30) + 20 * 30 * 4 * 30000 + 30 * 95000 + 2 * 250000 ( True) +50 * 2 * (15000True + 10000True) + 50 * 2500True) * 1 + 0 + 0 | 1 Meeting : Per diem = 9000 Participants = 50 Days = 2, Participants away = 30 Days away = 4 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0  |   |   |           |            |            | 159,760,000   |
| 3                   | Strengthening Veterinary Sanitary Phytosanitary (SPS) management by establishing quarantine systems in border and airport/seaport (CIQ) | MoALI, MoC, MoR                                                                 | Quarantine programs in limited area           | (1) Upgrading of the quarantine facilities and services in potential border trade, at 5 check points. (50,000,000*1*5)                                                                                   | National and Subnational | Increase no of quarantine stations and installed.             | border area security HR                       | N | 5,000,000   | (50,000,000*1*5) for 5 check points                                                                                                     |                                                                                                                                                                                                                                                                          | 5 | 5 | 5         | 25,000,000 | 25,000,000 | 100,000,000   |
|                     |                                                                                                                                         | MoALI, MoC, MoR                                                                 | Quarantine programs in limited area           | (1) Expansion of the quarantine facilities and services in potential border trade, 6 quarantine facilities will be expanded for every year (100,000,000*1*6, fir 5 year)                                 | National and Subnational | Increase no of quarantine stations and installed.             | border area security HR                       | N | 100,000,000 | (100,000,000*1*6) for 6 stations for every year                                                                                         |                                                                                                                                                                                                                                                                          |   |   |           |            |            | 2,400,000,000 |
|                     |                                                                                                                                         | MoALI, MoC, MoNREC)                                                             | Quarantine programs in limited area           | (2) Training on Veterinary Sanitary Phytosanitary (SPS) management by establishing quarantine systems for Inspector and quarantine for veterinarians (20 participant, 20 Away, 2 days, 6 times per year) | National and Subnational | Number of Staff trained                                       | border area security HR                       | N | 7,200,000   | (9000* (20 - 20) + 3 * 20 * 5 * 30000 + 20 * 95000 + 3 * 250000 ( True) +20 * 3 * (15000True + 10000True) + 20 * 2500True) * 1 + 0 + 0  | 1 Training : Per diem = 9000 Participants = 20 Days = 3, Participants away = 20 Days away = 5 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0 | 6 | 6 | 6         | 43,200,000 | 43,200,000 | 172,800,000   |

| No | Summary of Planned Activities at National Level (Strategic actions) | "Responsible authority(s) for Implementation including budget line holder" | Related existing plan/Programme or ongoing activities | "Detailed activities (Input description for costing)" | Where action to be implemented (National or sub-national) | "Output indicators (Monitoring and Evaluation)" | Comments or Potential challenges | Existing budget (y/n) | Existing budget source (government, donor?) | "Estimated cost (Local currency)" | Year of implementation |      |      |      |      |       |  |  |  |  |  |  | Total Cost Year in Local Currency |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|    |                                                                     |                                                                            |                                                       |                                                       |                                                           |                                                 |                                  |                       |                                             |                                   | Year of implementation |      |      |      |      |       |  |  |  |  |  |  | Total Cost Year in Local Currency |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                       |                                                       |                                                           |                                                 |                                  |                       |                                             |                                   | 2018                   | 2019 | 2020 | 2021 | 2022 | TOTAL |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                       |                                                       |                                                           |                                                 |                                  |                       |                                             |                                   | 2018                   | 2019 | 2020 | 2021 | 2022 | TOTAL |  |  |  |  |  |  |                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



|   |                                                               |                                   |                                              |                                                                                                                                                                                                                                             |                          |                                                                          |                                                                                       |   |                                                                                                                                                       |                                                                                                                                                                                                                                                                          |    |    |    |   |             |             |             |               |               |
|---|---------------------------------------------------------------|-----------------------------------|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|---|-------------|-------------|-------------|---------------|---------------|
|   |                                                               | Joint (LBVD, MOALL, MoHS, MoNREC) | Informal information sharing                 | (4) Meeting/ workshop on development of Guideline/ manual for farmer for their reporting in outbreak or emergencies (For example, Using Insurances System for breeding or business) (30 participants, 10 Away, 2 days, 2 times)             | National, -subnational   | Manual for former (Reporting) developed                                  | reporting from farmers (no compensation mechanism) awareness of private veterinarians | N | 4,585,000<br>$9000^* (30 - 10) + 10^* 20^* 4^* 30000 + 250000 (True) + 30^* 2^* (15000True + 10000True) + 30^* 2500True)^* 1 + 0 + 0$                 | 1 Workshop : Per diem = 9000 Participants = 30 Days = 2, Participants away = 10 Days away = 4 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0 | 2  |    |    |   | -           | 9, 170,000  | -           | 9, 170,000    |               |
|   |                                                               | Joint (LBVD, MOALL, MoHS, MoNREC) | Informal information sharing                 | (5) Hiring of International Consultant for development of Guideline/ manual for Farmer for their reporting in outbreak or emergencies (For example, Using Insurances System for breeding or business) (1 International Consultant, 20 days) | National, -subnational   | Manual for former (Reporting) developed                                  | reporting from farmers (no compensation mechanism) awareness of private veterinarians | N | 19,562,400<br>$1^* 20^* (238920 + 660000) + 1^* 1584000 = 19562400$                                                                                   | Number = 1 ; No of Days: 20, Per diem = 238920 ; Daily rate = 660000 ; Travel = 1584000                                                                                                                                                                                  | 1  |    |    |   | -           | 19,562,400  | -           | 19,562,400    |               |
|   |                                                               | Joint (LBVD, MOALL, MoHS, MoNREC) | Animal Health Biossecurity                   | (3) Dissemination workshop/ meeting on Guideline/manual for Farmer for their reporting in outbreak or emergencies (60 participants, 20 Away, 1 days, 1 times)                                                                               | National and subnational | Manual for former (Reporting) desiminated                                | New System and Practices will take times                                              | N | 6,010,000<br>$9000^* (60 - 20) + 1^* 20^* 3^* 30000 + 20^* 95000 + 1^* 250000 (True) + 60^* 1^* (15000True + 10000True) + 60^* 2500True)^* 1 + 0 + 0$ | 1 Meeting : Per diem = 9000 Participants = 60 Days = 1, Participants away = 20 Days away = 3 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0  | 1  |    |    |   | -           | 6,010,000   | -           | 6,010,000     |               |
| 6 | Prevention of Rabies among Dog community (Imunization in Dog) | LBVD, MoALI                       | Existing Pilot vaccination of dog in country | (1) Procurement of Rabie Vaccination for Mac Dog Vaccination Campaign at Risk areas (500,000 dogs per years will be vaccinated)                                                                                                             | All Level                | Number dog vaccinated in one year, Number of vaccing of vaccing procured | Budget approval and HR for vaccination each risk areas.                               | N | 1,200<br>$500,000^* 600$ per year                                                                                                                     |                                                                                                                                                                                                                                                                          |    | 5  | 5  | 5 | -           | 600,000,000 | 600,000,000 |               | 2,400,000,000 |
|   |                                                               |                                   |                                              | (2) Rabie Vaccination Practical Training on Rabies vaccine for Field Operation/Vaccinators (Total 2500 persons (CAHW/ field operation/vaccinator)- 50 participants, 0 Away, 7 days 50 times per year)                                       | All Level                | Number of vaccinator training and in fuction for vaccination             | Budget approval and finding Vaccinators for vaccination at risk areas                 | N | 13,825,000<br>$97^* + 0^* 9^* 30000 + 0^* 95000 + 7^* 250000 (True) + 50^* 7^* (15000True + 10000True) + 50^* 2500True)^* 1 + 0 + 0$                  | 1 Training : Per diem = 9000 Participants = 50 Days = 7, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0                                                                                                | 50 | 50 | 50 | - | 691,250,000 | 691,250,000 |             | 2,765,000,000 |               |

# MATRIX FOR THE DEVELOPMENT OF NATIONAL ACTION PLAN FOR HEALTH SECURITY 2018 - 2022

## PREVENT

General Objective: To prevent and reduce the likelihood of outbreaks and other public health hazards and events defined by IHR (2005).

| GOAL                | Surveillance system in place for prioritized zoonotic diseases                                                                                                                                                                                                                                                                                                        |                                                                                                                                                |                                                                                |                                                                                                                                                                                                                          |                                                        |                                                       |                                                                                              |                                                 |                                  |                                             |                                   |                                             |           |      |      |             |                                       |                                             |             |            |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------------------------------------------|-------------------------------------------------|----------------------------------|---------------------------------------------|-----------------------------------|---------------------------------------------|-----------|------|------|-------------|---------------------------------------|---------------------------------------------|-------------|------------|
| TECHNICAL AREA      | Prevention 5                                                                                                                                                                                                                                                                                                                                                          | Food Safety                                                                                                                                    |                                                                                |                                                                                                                                                                                                                          |                                                        |                                                       |                                                                                              |                                                 |                                  |                                             |                                   |                                             |           |      |      |             |                                       |                                             |             |            |
| JEE Indicator       | P.5.1                                                                                                                                                                                                                                                                                                                                                                 | Mechanisms for multisectoral collaboration established to ensure rapid response to food safety emergencies and outbreaks of foodborne diseases |                                                                                |                                                                                                                                                                                                                          |                                                        |                                                       |                                                                                              |                                                 |                                  |                                             |                                   |                                             |           |      |      |             |                                       |                                             |             |            |
| JEE Scores          | 2                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                |                                                                                |                                                                                                                                                                                                                          |                                                        |                                                       |                                                                                              |                                                 |                                  |                                             |                                   |                                             |           |      |      |             |                                       |                                             |             |            |
| JEE recommendations | * Establish a multi-sectoral strategy for a national food safety management and surveillance system from farm to fork<br>* Implement food safety control management systems based on multi-sectoral involvement in risk profiling of food safety problems<br>* Activate a transparent communication mechanism between all public and private food safety stakeholders |                                                                                                                                                |                                                                                |                                                                                                                                                                                                                          |                                                        |                                                       |                                                                                              |                                                 |                                  |                                             |                                   |                                             |           |      |      |             |                                       |                                             |             |            |
|                     | Objective                                                                                                                                                                                                                                                                                                                                                             | No                                                                                                                                             | Summary of Planned Activities at National Level (Strategic actions)            | "Responsible authority(s) for implementation including budget line holder"                                                                                                                                               | Related existing plan/Programme or on going activities | "Detailed activities (input description for costing)" | Where action is to be implemented (National or sub-national)                                 | "Output indicators (Monitoring and Evaluation)" | Comments or Potential challenges | Existing budget source (government, donor?) | "Estimated cost (Local currency)" | Year of implementation                      |           |      |      |             | Total cost per year of implementation | Total Estimated cost (Local currency) (Mya) | 535,405,100 |            |
|                     |                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                |                                                                                |                                                                                                                                                                                                                          |                                                        |                                                       |                                                                                              |                                                 |                                  |                                             |                                   | Total Cost Year in Local Currency           |           |      |      |             |                                       |                                             |             |            |
|                     |                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                |                                                                                |                                                                                                                                                                                                                          |                                                        |                                                       |                                                                                              |                                                 |                                  |                                             |                                   | 2018                                        | 2019      | 2020 | 2021 | 2022        |                                       |                                             |             | TOTAL      |
| 1                   | Guidelines for the National Food Safety Emergency and Outbreak Response of food borne diseases                                                                                                                                                                                                                                                                        | CEU, FDA, Laboratory-MoHS, LBVD-MoAU                                                                                                           | Rapid Response Team (RRT) already established, outbreak management guidelines. | (1) Advocacy meeting to develop guideline, training Modules and to organize or form task force for National Food Safety Emergency and Outbreak Response of food borne diseases (20 participants, Away 6, 1 day, 2 time ) | National                                               | Guideline/ manual and task force developed in time    | Multisectoral involvement and communication mechanism, human resources and financial support | N                                               |                                  |                                             | 2,136,000                         | -                                           | 2,136,000 | -    | -    | -           | 2,136,000                             |                                             |             |            |
|                     |                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                |                                                                                | (2) Task force meetings to develop draft guideline, training Modules (15 participants, Away 6, 1 dya, 4 times)                                                                                                           | National                                               | Guideline/ manual drafted                             | Multisectoral involvement and communication mechanism, human resources                       | N                                               |                                  |                                             | 1,903,500                         |                                             |           |      |      |             | 3,807,000                             |                                             |             |            |
|                     |                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                |                                                                                | (3) All stakeholders involvement Workshop on finalization of National Food Safety Emergency and Outbreak Response of food borne diseases Guideline, training Modules (40 participants, Away 20, 2 days, 1 time )         | National                                               | Guideline/ manual Developed                           | Multisectoral involvement and communication mechanism, human resources                       | N                                               |                                  |                                             | 7,360,000                         |                                             |           |      |      |             | 7,360,000                             |                                             |             |            |
|                     |                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                |                                                                                |                                                                                                                                                                                                                          |                                                        |                                                       |                                                                                              |                                                 |                                  |                                             |                                   | Total cost per year of implementation       |           |      |      | 206,080,100 | 109,775,000                           | 109,775,000                                 | 109,775,000 | 343,208,40 |
|                     |                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                |                                                                                |                                                                                                                                                                                                                          |                                                        |                                                       |                                                                                              |                                                 |                                  |                                             |                                   | Total Estimated cost (USD)                  |           |      |      |             |                                       |                                             |             |            |
|                     |                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                |                                                                                |                                                                                                                                                                                                                          |                                                        |                                                       |                                                                                              |                                                 |                                  |                                             |                                   | Total Estimated cost (Local currency) (Mya) |           |      |      |             |                                       |                                             |             |            |

|   |                                                                                        |                                                                                                                                                                                                                                                                                                                                                                 |                                                                          |                                                                                                                                                       |                                                                                                                                                       |   |  |            |                                                                                                                                                                 |                                                                                                                                                                                                                                                                                               |   |   |   |   |            |            |            |             |
|---|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---|--|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|---|------------|------------|------------|-------------|
|   | FDA, NHI-<br>MoHS, LBVD-<br>MoALI                                                      | (4) Dissemination workshop/<br>meeting for Guidelines<br>on National Food Safety<br>Emergency and Outbreak<br>Response of food borne<br>diseases guideline, Training<br>Modules<br>(70 participants per meeting,<br>35 away, for 2 days)                                                                                                                        | National                                                                 | Dissemination<br>meeting<br>conducted                                                                                                                 | technical, interest,<br>commitments,<br>financial support                                                                                             | N |  | 8,085,000  | ( 9000* (70 - 30 )<br>*1 + 30 * 3 * 30000<br>+ 30 * 95000 + 1 *<br>250000 ( True) + 70<br>* 1 * ( 15000True<br>+ 10000True) +<br>70 * 2500True ) * 1<br>+ 0 + 0 | 1 Workshop : Per diem = 9000<br>Participants = 70 Days = 1, Participants<br>away = 30 Days away = 3 Diem away<br>= 30000 Travel costs participants away<br>= 95000, Tea break = 10000, Lunch<br>= 15000, Stationary = 2500, Venue =<br>250000, Printing costs = 0, Disseminating<br>costs = 0 | 1 |   |   | - | 8,085,000  | -          | -          | 8,085,000   |
| 2 | Build up th capacities of<br>persons who are related<br>to food safety and<br>security | Rapid Response<br>Team (RRT)<br>already<br>established,<br>outbreak<br>management<br>guidelines.                                                                                                                                                                                                                                                                | CEU, FDA,<br>Laboratory-<br>MoHS, LBVD-<br>MoALI,<br>YCDC, NCDC,<br>MCDC | National,<br>subnational                                                                                                                              | Total number<br>of Inspector<br>and outbreak<br>investigator<br>for effective<br>and efficient<br>response to<br>food safety<br>control<br>management | N |  | 9,350,000  | ( 9000* (40 - 20 )<br>*3 + 20 * 5 * 30000<br>+ 20 * 95000 + 3 *<br>250000 ( True) + 40<br>* 3 * ( 15000True<br>+ 10000True) +<br>40 * 2500True ) * 1<br>+ 0 + 0 | 1 Training : Per diem = 9000 Participants<br>= 40 Days = 3, Participants away =<br>20 Days away = 5 Diem away = 30000<br>Travel costs participants away = 95000,<br>Tea break = 10000, Lunch = 15000,<br>Stationary = 2500, Venue = 250000,<br>Printing costs = 0, Disseminating<br>costs = 0 | 1 | 1 | 1 | - | 9,350,000  | 9,350,000  | 9,350,000  | 37,400,000  |
|   |                                                                                        | (2) Multiplier Trainings on<br>Food Safety, Emergency<br>Outbreak response for<br>Food Inspectors and Outbreak<br>Investigators upto township<br>level without national<br>consultant<br>For total 200 trainees by<br>separate relevant department<br>by using guidelines and<br>training Modules<br>(50 participant, Away 40, 3<br>days, 4 times, for 5 years) | National,<br>subnational                                                 | Total number<br>of Inspector<br>and outbreak<br>investigator<br>for effective<br>and efficient<br>response to<br>food safety<br>control<br>management | technical, interest,<br>commitments,<br>financial support                                                                                             | N |  | 14,695,000 | ( 9000* (50 - 40 )<br>*3 + 40 * 5 * 30000<br>+ 40 * 95000 + 3 *<br>250000 ( True) + 50<br>* 3 * ( 15000True<br>+ 10000True) +<br>50 * 2500True ) * 1<br>+ 0 + 0 | 1 Training : Per diem = 9000 Participants<br>= 50 Days = 3, Participants away =<br>40 Days away = 5 Diem away = 30000<br>Travel costs participants away = 95000,<br>Tea break = 10000, Lunch = 15000,<br>Stationary = 2500, Venue = 250000,<br>Printing costs = 0, Disseminating<br>costs = 0 | 2 | 2 | 2 | - | 29,390,000 | 29,390,000 | 29,390,000 | 117,560,000 |
|   |                                                                                        | (3) Hiring of National<br>Consultant for training<br>(1 national consultant, 5 days,<br>4 trainings per year, including<br>1st TOT training)                                                                                                                                                                                                                    |                                                                          |                                                                                                                                                       | technical, interest,<br>commitments,<br>financial support                                                                                             | N |  | 1,400,000  | 1 * 5 * ( 80000 +<br>200000 ) + 1 * 0 =<br>1400000                                                                                                              | Number = 1 ; No of Days : 5 , Per diem =<br>80000 ; Daily rate = 200000 : Travel = 0                                                                                                                                                                                                          | 2 | 2 | 2 | - | 2,800,000  | 2,800,000  | 2,800,000  | 11,200,000  |
|   |                                                                                        | (4) Hiring of International<br>Consultant for the first 1 TOT<br>training<br>(1 International consultant, 5<br>days, first 1 TOT training)                                                                                                                                                                                                                      |                                                                          |                                                                                                                                                       | technical, interest,<br>commitments,<br>financial support                                                                                             | N |  | 6,078,600  | 1 * 5 * ( 238920<br>+ 660000 ) + 1 *<br>1584000 = 6078600                                                                                                       | Number = 1 ; No of Days : 5 , Per diem<br>= 238920 ; Daily rate = 660000 : Travel<br>= 1584000                                                                                                                                                                                                | 1 |   |   | - | 6,078,600  | -          | -          | 6,078,600   |
|   |                                                                                        | (5) Workshop on food safety<br>and Emergency Outbreak<br>Response for relevant<br>Stakeholders<br>with assistance of one<br>national consultant<br>(70 participants, Away 50,<br>2days, 2 times per year)                                                                                                                                                       |                                                                          | Number of<br>workshop<br>conducted                                                                                                                    | technical, interest,<br>commitments,<br>financial support                                                                                             | N |  | 15,285,000 | ( 9000* (70 - 50 )<br>*2 + 50 * 4 * 30000<br>+ 50 * 95000 + 2 *<br>250000 ( True) + 70<br>* 2 * ( 15000True<br>+ 10000True) +<br>70 * 2500True ) * 1<br>+ 0 + 0 | 1 Workshop : Per diem = 9000<br>Participants = 70 Days = 2, Participants<br>away = 50 Days away = 4 Diem away<br>= 30000 Travel costs participants away<br>= 95000, Tea break = 10000, Lunch<br>= 15000, Stationary = 2500, Venue =<br>250000, Printing costs = 0, Disseminating<br>costs = 0 | 2 | 2 | 2 | - | 30,570,000 | 30,570,000 | 30,570,000 | 122,280,000 |

# NATIONAL ACTION PLAN FOR HEALTH SECURITY (NAPHS)

| No | Summary of Planned Activities at National Level (Strategic actions)                                                                                               | "Responsible authority(s) for implementation including budget line holder" | Related existing plan/ framework / Programme or on going activities | "Detailed activities (input description for costing)"                                                                                                  | Where is the action to be implemented (National or sub-national) | "Output indicators (Monitoring and Evaluation)"                                         | Comments or Potential challenges                                                             | Existing budget (getty/n) | Existing budget source (government, donor?) | "Estimated cost (Local currency) " |                                                                                                                                         | Total Cost Year in Local Currency                                                                                                                                                                                                                                       |      |            |            |            |            |            |            |            |            |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|---------------------------|---------------------------------------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------|------------|------------|------------|------------|------------|------------|------------|
|    |                                                                                                                                                                   |                                                                            |                                                                     |                                                                                                                                                        |                                                                  |                                                                                         |                                                                                              |                           |                                             |                                    |                                                                                                                                         | Year of implementation                                                                                                                                                                                                                                                  |      |            |            |            |            |            |            |            |            |
|    |                                                                                                                                                                   |                                                                            |                                                                     |                                                                                                                                                        |                                                                  |                                                                                         |                                                                                              |                           |                                             |                                    |                                                                                                                                         | 2018                                                                                                                                                                                                                                                                    | 2019 | 2020       | 2021       | 2022       | TOTAL      |            |            |            |            |
|    |                                                                                                                                                                   |                                                                            |                                                                     |                                                                                                                                                        |                                                                  | 2 2 2 2<br>0 0 0 0<br>1 1 2 2<br>8 9 0 1 2                                              |                                                                                              |                           |                                             |                                    |                                                                                                                                         |                                                                                                                                                                                                                                                                         |      |            |            |            |            |            |            |            |            |
| 3  | To establish the effective communication platform                                                                                                                 | CEU, FDA, Laboratory-MoHS, LBVD-MoALL, YCDC, NCDC, MCDC                    | departmental own data, own analysis and own management and System.  | (1) Coordination meeting to develop national data bank for outbreak of food borne diseases (15 participants, Away 5, 1 day)                            | National, subnational                                            | Effective communication platform, its usage and data analysis software are established. | technical, financial and software engineering support                                        | N                         |                                             | 1,777,500                          | (9000* (15- 5) *1 + 5 * 3 * 30000 + 5 * 95000 + 1* 250000 (True) +15 *1 * ( 15000True + 10000True) + 15 * 2500True) *1 + 0 + 0          | 1 Meeting : Per diem = 9000 Participants = 15 Days = 1, Participants away = 5 Days away = 3 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0  | -    | 1,777,500  | -          | -          | -          | -          | -          | -          | 1,777,500  |
|    |                                                                                                                                                                   |                                                                            |                                                                     | (2) Hiring of IT and Software experts and consultant for database software development and data bank establishment (1 national consultant for 45 days) | National, subnational                                            |                                                                                         | Availability of technical experts                                                            | N                         |                                             | 12,600,000                         | 1 * 45 * (80000 + 200000) + 1 * 0 = 12600000                                                                                            | Number = 1 ; No of Days :45, Per diem = 80000 ; Daily rate = 200000: Travel = 0                                                                                                                                                                                         | -    | 12,600,000 | -          | -          | -          | -          | -          | -          | 12,600,000 |
|    |                                                                                                                                                                   |                                                                            |                                                                     | (3) Development of database/ software, IT equipments, internet facilities for National Data Bank Establishment (estimated lumpsum USD 25,000)          | National, subnational                                            |                                                                                         |                                                                                              | N                         |                                             | 33,000,000                         |                                                                                                                                         |                                                                                                                                                                                                                                                                         | -    | 33,000,000 | -          | -          | -          | -          | -          | -          | 33,000,000 |
|    |                                                                                                                                                                   |                                                                            |                                                                     | (4) Data training for relevant persons and staff from different departments (total 4 times) (40 participants, Away 25, 2 days, 4 times)                | National, subnational                                            |                                                                                         |                                                                                              | N                         |                                             | 8,295,000                          | ( 9000* (40 - 25) *2 + 25 * 4 * 30000 + 25 * 95000 + 2 * 250000 ( True) +40 * 2 * ( 15000True + 10000True) + 40 * 2500True) * 1 + 0 + 0 | 1 Meeting : Per diem = 9000 Participants = 40 Days = 2, Participants away = 25 Days away = 4 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0 | -    | 16,590,000 | 16,590,000 | 16,590,000 | 16,590,000 | 16,590,000 | 16,590,000 | 66,360,000 |            |
|    |                                                                                                                                                                   |                                                                            |                                                                     | (5) Stakeholder Coordination and Review Meeting on effective use of information and dat from communication Platform (15 participants, Away 5, 1 day)   | National, subnational                                            | Number of Meeting conducted with all relevant participants                              | All relevant person participations and commitments                                           | N                         |                                             | 1,777,500                          | (9000* (15- 5) *1 + 5 * 3 * 30000 + 5 * 95000 + 1* 250000 ( True) +15 *1 * ( 15000True + 10000True) + 15 * 2500True) * 1 + 0 + 0        | 1 Meeting : Per diem = 9000 Participants = 15 Days = 1, Participants away = 5 Days away = 3 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0  | -    | 3,555,000  | 3,555,000  | 3,555,000  | 3,555,000  | 3,555,000  | 14,220,000 |            |            |
| 4  | To develop multi-sectoral strategy for National Food Safety Management and Surveillance system in line with strengthening of National Codex structure and process | MoHS (CEU, FDA, Lab) & MoALL, YCDC, NCDC, MCDC                             | departmental own control management                                 | (1) Advocacy meeting to develop Multi-sectoral strategy and to organize or form task force for development (20 participants, Away 6, 1 day, 1 times)   | National                                                         | Strategy and Guideline manual developed                                                 | Multisectoral involvement and communication mechanism, human resources and financial support | N                         |                                             | 2,136,000                          | (9000* (20- 6) *1 + 6 * 3 * 30000 + 6 * 95000 + 1* 250000 ( True) +20 *1 * ( 15000True + 10000True) + 20 * 2500True) * 1 + 0 + 0        | 1 Meeting : Per diem = 9000 Participants = 20 Days = 1, Participants away = 6 Days away = 3 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0  | -    | 2,136,000  | -          | -          | -          | -          | -          | 2,136,000  |            |

|   |                                                                                                                            |                                                |                                     |                                                                                                                                       |                                                                                                                                  |                                                |                                                |                                          |                                          |                                                                                                                                        |                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                        |   |   |   |   |           |            |            |            |            |
|---|----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|------------------------------------------------|------------------------------------------|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|---|-----------|------------|------------|------------|------------|
| 5 | Multi-sectoral collaboration in risk profiling of food safety problems to strengthen food safety control management system | MohS (CEU, FDA, Lab) & MoALI, YCDC, NCDC, MCDC | departmental own control management | (1) Identify and analyze the current food safety problems by each department in their responsible area at their Home Office (no cost) | National                                                                                                                         | risk profiling done by each related department | Interest and Commitments by Stakeholders       | N                                        | 1,940,000                                | ( 9000* (16- 6) *1+ 6 * 3 * 30000 + 6 * 95000 + 1* 250000 ( True) +16 * 1* ( 15000True + 10000True) + 16 * 2500True ) * 1 + 0 + 0      | 1 Meeting : Per diem = 9000 Participants = 16 Days = 1, Participants away = 6 Days away = 3 Diem away = 3000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0   | 2                                                                                                                                                                                                                                                                      |   |   |   | - | 3,880,000 | -          | -          | 3,880,000  |            |
|   |                                                                                                                            |                                                |                                     | (3) All stakeholders involvement workshop to finalize multi-sectoral Strategy (40 participants, Away 20, 2 days, 1 times)             | N                                                                                                                                |                                                |                                                | N                                        | 7,360,000                                | ( 9000* (40- 20) *2 + 20 * 4 * 30000 + 20 * 95000 + 2* 250000 ( True) +40 * 2 * ( 15000True + 10000True) + 40 * 2500True ) * 1 + 0 + 0 | 1 Meeting : Per diem = 9000 Participants = 40 Days = 2, Participants away = 20 Days away = 4 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0 | 1                                                                                                                                                                                                                                                                      |   |   |   | - | 7,360,000 | -          | -          | 7,360,000  |            |
|   |                                                                                                                            |                                                |                                     | (4) Dessemination workshop/ meeting multi-sectoral Strategy (70 participants per meeting, 35 away, for 2 days)                        | N                                                                                                                                | National                                       | Dessemination meeting conducted                | N                                        | 8,085,000                                | ( 9000* (70 - 30) *1 + 30 * 3 * 30000 + 30 * 95000 + 1* 250000 ( True) +70 * 1* ( 15000True + 10000True) + 70 * 2500True ) * 1 + 0 + 0 | 1 Workshop : Per diem = 9000 Participants = 70 Days = 1, Participants away = 30 Days away = 3 Diem away = 3000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0 | 1                                                                                                                                                                                                                                                                      |   |   |   | - | 8,085,000 | -          | -          | 8,085,000  |            |
|   |                                                                                                                            |                                                |                                     |                                                                                                                                       | N                                                                                                                                | National                                       | risk profiling done by each related department | Interest and Commitments by Stakeholders |                                          |                                                                                                                                        |                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                        | 4 | 4 | 4 |   | -         |            | -          | -          |            |
|   |                                                                                                                            |                                                |                                     |                                                                                                                                       | (2) Stakeholders meetings to establish the Risk Profiles of food with safety problems (40 participants, Away 20, 1 day, 4 times) | N                                              | National                                       | Meeting conducted                        | Interest and Commitments by Stakeholders | 7,360,000                                                                                                                              | ( 9000* (40- 20) *2 + 20 * 4 * 30000 + 20 * 95000 + 2* 250000 ( True) +40 * 2 * ( 15000True + 10000True) + 40 * 2500True ) * 1 + 0 + 0                                                                                                                                  | 1 Meeting : Per diem = 9000 Participants = 40 Days = 2, Participants away = 20 Days away = 4 Diem away = 3000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0 | 2 | 2 | 2 |   | -         | 14,720,000 | 14,720,000 | 14,720,000 | 58,880,000 |

# MATRIX FOR THE DEVELOPMENT OF NATIONAL ACTION PLAN FOR HEALTH SECURITY 2018 - 2022

## PREVENT

General Objective: To prevent and reduce the likelihood of outbreaks and other public health hazards and events defined by IHR (2005).

| GOAL                | Surveillance system in place for prioritized zoonotic diseases       |                                                                                                                                                                                                                                                                                                                       |                                                                                                                |                                                                                                                                                                                               |                                                                   |                                                                       |                                                                  |                                                 |                                  |                           |                                                |                                                                                        |                        |      |          |      |                                   |       |   |   |                            |   |   |   |   |   |   |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| TECHNICAL AREA      | Prevention 5                                                         |                                                                                                                                                                                                                                                                                                                       | Biosafety and Biosecurity                                                                                      |                                                                                                                                                                                               |                                                                   |                                                                       |                                                                  |                                                 |                                  |                           |                                                |                                                                                        |                        |      |          |      |                                   |       |   |   |                            |   |   |   |   |   |   |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| JEE Indicator       | P.6.1                                                                |                                                                                                                                                                                                                                                                                                                       | Whole-of-government biosafety and biosecurity system is in place for human, animal, and agriculture facilities |                                                                                                                                                                                               |                                                                   |                                                                       |                                                                  |                                                 |                                  |                           |                                                |                                                                                        |                        |      |          |      |                                   |       |   |   |                            |   |   |   |   |   |   |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| JEE Scores          | 2                                                                    |                                                                                                                                                                                                                                                                                                                       |                                                                                                                |                                                                                                                                                                                               |                                                                   |                                                                       |                                                                  |                                                 |                                  |                           |                                                |                                                                                        |                        |      |          |      |                                   |       |   |   |                            |   |   |   |   |   |   |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| JEE recommendations |                                                                      | * Develop national biosafety and biosafety legislation, regulations or frameworks<br>* Undertake a comprehensive training needs assessment across human, animal and agricultural sectors<br>* Establishing funding and ensuring sustainability for supporting comprehensive national biosafety and biosecurity system |                                                                                                                |                                                                                                                                                                                               |                                                                   |                                                                       |                                                                  |                                                 |                                  |                           |                                                |                                                                                        |                        |      |          |      |                                   |       |   |   |                            |   |   |   |   |   |   |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                     |                                                                      | To strengthen biosafety and biosecurity system in human, animal, and agriculture sectors                                                                                                                                                                                                                              |                                                                                                                |                                                                                                                                                                                               |                                                                   |                                                                       |                                                                  |                                                 |                                  |                           |                                                |                                                                                        |                        |      |          |      |                                   |       |   |   |                            |   |   |   |   |   |   |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                     |                                                                      | No                                                                                                                                                                                                                                                                                                                    | Summary of Planned Activities at National Level (Strategic actions)                                            | "Responsible authority(s) for implementation including budget line holder"                                                                                                                    | Related existing plan/framework/ Programme or on going activities | "Detailed activities (input description for costing)"                 | Where is the action to be implemented (National or sub-national) | "Output indicators (Monitoring and Evaluation)" | Comments or Potential challenges | Existing budget (get/y/n) | Existing budget source (government, donor?)    | "Estimated cost (Local currency)"                                                      | Year of implementation |      |          |      | Total Cost Year in Local Currency |       |   |   | Total Estimated cost (USD) |   |   |   |   |   |   |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                     |                                                                      |                                                                                                                                                                                                                                                                                                                       |                                                                                                                |                                                                                                                                                                                               |                                                                   |                                                                       |                                                                  |                                                 |                                  |                           |                                                |                                                                                        | 2018                   | 2019 | 2020     | 2021 | 2022                              | TOTAL |   |   |                            |   |   |   |   |   |   |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1                   | Develop Comprehensive National Biosafety and Biosecurity Legislation | MoHS                                                                                                                                                                                                                                                                                                                  | Biosafety Guidelines, Myanmar National Policy on Health Laboratories                                           | (1) Hiring Consultant to develop comprehensive national biosafety and biosecurity law/legislation for both human, veterinary and Agriculture Sectors (1 International consultant for 10 days) | National                                                          | Comprehensive national biosafety and biosecurity legislation was done | Weakness in Biosafety & Biorisk management                       | N                                               |                                  | 10573200                  | 1*10* (238920 + 660000) + 1*1584000 = 10573200 | Number = 1; No of Days : 10, Per diem = 238920; Daily rate = 660000 : Travel = 1584000 | 1                      | 0    | 10573200 | 0    | 0                                 | 0     | 0 | 0 | 0                          | 0 | 0 | 0 | 0 | 0 | 0 | 10573200 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                     |                                                                      |                                                                                                                                                                                                                                                                                                                       |                                                                                                                |                                                                                                                                                                                               |                                                                   |                                                                       |                                                                  |                                                 |                                  |                           |                                                |                                                                                        |                        |      |          |      |                                   |       |   |   |                            |   |   |   |   |   |   |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

## NATIONAL ACTION PLAN FOR HEALTH SECURITY (NAPHS)

|   |                                                                                                               |                                                                                                                                          |                        |                                                                                                                                                                                                                                                                                                 |                                         |   |            |                |                                                                                                                                                                             |                                                                                                                                                                                                                                                                            |   |   |   |   |   |                |            |            |                |
|---|---------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|---|------------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|---|---|----------------|------------|------------|----------------|
|   |                                                                                                               | (4) One dissemination and advocacy workshop/meeting for national biosafety and biosecurity legislation (70 participants, 30 away, 1 day) | National               | Comprehensive national biosafety and bio-security legislation was done                                                                                                                                                                                                                          | Multi sectoral Participations           | N |            | 8,085,000      | $(9000 * (70 - 30)) * 1 + 30 * 3 * 30000 + 30 * 95000 + 1 * 250000 (\text{True}) + 70 * 1 * (15000 \text{True} + 10000 \text{True}) + 70 * 25000 (\text{True}) * 1 + 0 + 0$ | 1 Workshop : Per diem = 9000<br>Participants= 70 Days = 1, Participants away = 30 Days away = 3 Dien away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0 | 1 |   | - | - | - | 8,085,000      | -          | -          | 8,085,000      |
| 2 | Strengthen infrastructure of biosafety and biosecurity facilities central and in States/Regional laboratories | MOHS, MOALI Biosafety Guidelines, Myanmar National Policy on Health Laboratories                                                         | National               | BSL3 in NHL established                                                                                                                                                                                                                                                                         | Duration of Construction Time           | Y | Government | 18,153,725,469 |                                                                                                                                                                             |                                                                                                                                                                                                                                                                            |   | 1 |   | - | - | 18,153,725,469 | -          | -          | 18,153,725,469 |
|   |                                                                                                               |                                                                                                                                          | National               | Equipments procured and installed                                                                                                                                                                                                                                                               | Duration of procurement Time            | Y | Government | 2,970,774,044  |                                                                                                                                                                             |                                                                                                                                                                                                                                                                            |   | 1 |   | - | - | 2,970,774,044  | -          | -          | 2,970,774,044  |
|   |                                                                                                               |                                                                                                                                          | National               | Expenditure used per year                                                                                                                                                                                                                                                                       | Duration of waiting for budget          | Y | Government | 825,242,588    |                                                                                                                                                                             |                                                                                                                                                                                                                                                                            |   | 1 |   | - | - | 825,242,588    | -          | -          | 825,242,588    |
|   |                                                                                                               |                                                                                                                                          | National & subnational | Number of HAI cases decreased<br>Number of laboratory at State and Region with Biosafety Cabinet                                                                                                                                                                                                | Financial support                       | N |            | 7,400,000      |                                                                                                                                                                             |                                                                                                                                                                                                                                                                            |   | 8 | 8 | 6 | 6 | 59,200,000     | 44,400,000 | 44,400,000 | 251,600,000    |
|   |                                                                                                               |                                                                                                                                          | National & subnational | Number of HAI cases decreased<br>Number of Autoclaves to States/Regional labs for both human & veterinary sector (1 for each sector)                                                                                                                                                            | Financial support                       | N |            | 4,600,000      |                                                                                                                                                                             |                                                                                                                                                                                                                                                                            |   | 8 | 8 | 6 | 6 | 36,800,000     | 27,600,000 | 27,600,000 | 156,400,000    |
|   |                                                                                                               |                                                                                                                                          | National & subnational | Number of HAI cases decreased<br>three-layer sample packaging boxes to States/Regional labs for both human & veterinary sector (3 each for States/Regions for both human & veterinary) (3 * 34 areas)<br>(Need to check annual stockpile to decide whether it needs to buy in next budget year) | Procurement and Courier contract system | N |            | 5,100,000      |                                                                                                                                                                             |                                                                                                                                                                                                                                                                            |   | 1 | 1 | 1 | 1 | 5,100,000      | 5,100,000  | 5,100,000  | 25,500,000     |



# NATIONAL ACTION PLAN FOR HEALTH SECURITY (NAPHS)

| No | Summary of Planned Activities at National Level (Strategic actions)                                      | "Responsible authority" for implementation including budget line holder" | Related existing plan/ framework/ Programme or on going activities | "Detailed activities (input description for costing)"                                                                                                                                                 | Where is the action to be implemented (National or sub-national) | "Output indicators (Monitoring and Evaluation)"                                                               | Comments or Potential challenges  | Existing budget (y/n) | Existing budget source (government, donor?) | "Estimated cost (Local currency)"                                   | Total Cost Year in Local Currency |            |            |            |            |             |
|----|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|-----------------------------------|-----------------------|---------------------------------------------|---------------------------------------------------------------------|-----------------------------------|------------|------------|------------|------------|-------------|
|    |                                                                                                          |                                                                          |                                                                    |                                                                                                                                                                                                       |                                                                  |                                                                                                               |                                   |                       |                                             |                                                                     | Year of Implementation            |            |            |            |            |             |
|    |                                                                                                          |                                                                          |                                                                    |                                                                                                                                                                                                       |                                                                  |                                                                                                               |                                   |                       |                                             |                                                                     | 2018                              | 2019       | 2020       | 2021       | 2022       | TOTAL       |
|    |                                                                                                          |                                                                          |                                                                    | (7) Transportation costs to states/regions for biosafety & biosecurity equipments (100,000 MMK for each State and Region)                                                                             |                                                                  | Number of laboratory at State and Region with receipts of equipment                                           | Time will take for transportation | N                     |                                             | 1,700,000                                                           | 1,700,000                         | 1,700,000  | 1,700,000  | 1,700,000  | 1,700,000  | 8,500,000   |
|    |                                                                                                          |                                                                          |                                                                    | (8) Regular maintenance and calibration of equipment (34+26 60 cabinets (100,000 MMK per cabinet)                                                                                                     | National & subnational                                           | Number of equipments maintenance and calibration done                                                         | Regular Follow up                 | N                     |                                             | 100,000                                                             | 60,000                            | 60,000     | 60,000     | 60,000     | 60,000     | 30,000,000  |
|    |                                                                                                          |                                                                          |                                                                    | (9) Provided essential laboratory facilities : PPEs to States/Regional labs for both human & veterinary sector (Need to check annual stockpile to decide whether it needs to buy in next budget year) | National & subnational                                           | Number of laboratory with PPE                                                                                 | Time for distribution             | N                     |                                             | 80,000,000                                                          | 80,000,000                        | 80,000,000 | 80,000,000 | 80,000,000 | 80,000,000 | 400,000,000 |
| 3  | Strengthen biosafety & biosecurity system: Operationalise cross-border manual on bio-threat surveillance |                                                                          |                                                                    | (1) Provided essential laboratory facilities : Biosafety cabinets to border area hospitals (12 tsp)                                                                                                   |                                                                  | Number of Laboratory at border 12 township with Biosafety Cabinet Number of HCAI case prevented and decreased | Time for distribution             | N                     |                                             | 7,400,000                                                           | -                                 | 88,800,000 | -          | -          | -          | 88,800,000  |
|    |                                                                                                          |                                                                          |                                                                    | (2) Provided essential laboratory facilities : Waste management including Autoclaves to border area hospitals (12 tsp)                                                                                |                                                                  | Number of Laboratory at border 12 township with Waste Management Number of HCAI case prevented and decreased  | Time for distribution             | N                     |                                             | 4,600,000                                                           | -                                 | 55,200,000 | -          | -          | -          | 55,200,000  |
| 4  | Strengthen biosafety & biosecurity system                                                                |                                                                          |                                                                    | (1) IM & E visits for Biosafety and Biosecurity practices at Laboratories (2 people, 3-day per visit)                                                                                                 | National & Subnational                                           | Number of M & E visit done                                                                                    | Tight Schedules for focal persons | N                     |                                             | 850,000                                                             | 10                                | 8,500,000  | 8,500,000  | 8,500,000  | 8,500,000  | 42,500,000  |
|    |                                                                                                          |                                                                          |                                                                    |                                                                                                                                                                                                       |                                                                  |                                                                                                               |                                   |                       |                                             | 2 * 3 * 31000 + 2 * 95000 + 1 * 132000 * 3 + 3 * 1 * 26000 = 850000 | 10                                | 10         | 10         | 10         | 10         |             |

## NATIONAL ACTION PLAN FOR HEALTH SECURITY (NAPHS)

[illegible]

| EE Indicator       |                                                                                 | P.6.2                                                                                                                                                                                                                                                                                                                   | Biosafety and biosecurity training and practices                    |                                                                                                                                                                    |                                                                  |                                                                               |                                  |                       |                                             |                                   |                                                                                                                                                           |                                                                                                                                                                                                                                                                                         |         |            |            |                                   |            |            |  |       |
|--------------------|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------------|-----------------------|---------------------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------|------------|-----------------------------------|------------|------------|--|-------|
| EE Scores          |                                                                                 | 1                                                                                                                                                                                                                                                                                                                       |                                                                     |                                                                                                                                                                    |                                                                  |                                                                               |                                  |                       |                                             |                                   |                                                                                                                                                           |                                                                                                                                                                                                                                                                                         |         |            |            |                                   |            |            |  |       |
| EE recommendations |                                                                                 | * Develop national biosecurity and biosafety legislation, regulations or frameworks<br>* Undertake a comprehensive training needs assessment across human, animal and agricultural sectors<br>* Establishing funding and ensuring sustainability for supporting comprehensive national biosafety and biosecurity system |                                                                     |                                                                                                                                                                    |                                                                  |                                                                               |                                  |                       |                                             |                                   |                                                                                                                                                           |                                                                                                                                                                                                                                                                                         |         |            |            |                                   |            |            |  |       |
| Objective          |                                                                                 | To develop and promote the capacities person related to Biosafety and Biosecurity                                                                                                                                                                                                                                       |                                                                     |                                                                                                                                                                    |                                                                  |                                                                               |                                  |                       |                                             |                                   |                                                                                                                                                           |                                                                                                                                                                                                                                                                                         |         |            |            |                                   |            |            |  |       |
| No                 | Summary of Planned Activities at National Level (Strategic actions)             | "Responsible authority(s) for implementation including budget line holder"                                                                                                                                                                                                                                              | Related existing plan/ framework / Programme or on going activities | "Detailed activities (Input description for costing)"                                                                                                              | Where is the action to be implemented (National or sub-national) | "Output indicators (Monitoring and Evaluation)"                               | Comments or Potential challenges | Existing budget (y/n) | Existing budget source (government, donor?) | "Estimated cost (Local currency)" | Year of implementation                                                                                                                                    |                                                                                                                                                                                                                                                                                         |         |            |            | Total Cost Year in Local Currency |            |            |  |       |
|                    |                                                                                 |                                                                                                                                                                                                                                                                                                                         |                                                                     |                                                                                                                                                                    |                                                                  | 2 2 2 2<br>0 0 0 0<br>1 1 2 2<br>8 9 0 1 2                                    |                                  |                       |                                             |                                   | 2 2 2 2<br>0 0 0 0<br>1 1 2 2<br>8 9 0 1 2                                                                                                                |                                                                                                                                                                                                                                                                                         |         |            |            |                                   |            |            |  | TOTAL |
| 1                  | Building capacity by provision of Training Program on Biosafety and Biosecurity |                                                                                                                                                                                                                                                                                                                         |                                                                     | (1) Basic training on Biosafety and Biosecurity (TOT) for human and animal sectors (30 participants, Away 25, 2 days, 2 times per year)                            | National                                                         | number of staff trained for biosafety and biosecurity                         | Budget                           | N                     |                                             | 7,540,000                         | (9000* (30 - 25 )<br>+2 + 25 * 4 * 30000<br>+ 25 * 95000 + 2 * 250000 ( True) +30<br>* 2 * (15000True<br>+ 10000True) +<br>30 * 2500True ) * 1<br>+ 0 + 0 | 1 Meeting : Per diem = 9000 Participants<br>= 30 Days = 2, Participants away = 25 Days away = 4 Dien away = 30000<br>Travel costs participants away = 95000,<br>Tea break = 10000, Lunch = 15000,<br>Stationary = 2500, Venue = 250000,<br>Printing costs = 0, Disseminating costs = 0  | 2 2 2 2 | 15,080,000 | 15,080,000 | 15,080,000                        | 15,080,000 | 75,400,000 |  |       |
|                    |                                                                                 |                                                                                                                                                                                                                                                                                                                         |                                                                     | (2) Refresher training Biosafety and Biosecurity for human sector and animal sectors (30 participants, Away 25, 2 days, 2 times per year)                          | National                                                         | number of staff trained (refresher) for biosafety and biosecurity             | Budget                           | N                     |                                             | 7,540,000                         | (9000* (30 - 25 )<br>+2 + 25 * 4 * 30000<br>+ 25 * 95000 + 2 * 250000 ( True) +30<br>* 2 * (15000True<br>+ 10000True) +<br>30 * 2500True ) * 1<br>+ 0 + 0 | 1 Meeting : Per diem = 9000 Participants<br>= 30 Days = 2, Participants away = 25 Days away = 4 Dien away = 30000<br>Travel costs participants away = 95000,<br>Tea break = 10000, Lunch = 15000,<br>Stationary = 2500, Venue = 250000,<br>Printing costs = 0, Disseminating costs = 0  | 2 2 2   | -          | 15,080,000 | 15,080,000                        | 15,080,000 | 45,240,000 |  |       |
|                    |                                                                                 |                                                                                                                                                                                                                                                                                                                         |                                                                     | (3) Multiplier training on Biosafety and Biosecurity for human sector (30 participants, Away 15, 2 days, 2 times per year) (at 17 hospital for each year)          | National                                                         | number of staff trained as multiplier for biosafety and biosecurity           | Budget                           | N                     |                                             | 4,865,000                         | (9000* (20 - 15 )<br>+2 + 15 * 4 * 30000<br>+ 15 * 95000 + 2 * 250000 ( True) +20<br>* 2 * (15000True<br>+ 10000True) +<br>20 * 2500True ) * 1<br>+ 0 + 0 | 1 Training : Per diem = 9000 Participants<br>= 20 Days = 2, Participants away = 15 Days away = 4 Dien away = 30000<br>Travel costs participants away = 95000,<br>Tea break = 10000, Lunch = 15000,<br>Stationary = 2500, Venue = 250000,<br>Printing costs = 0, Disseminating costs = 0 | 2 2 2   | -          | 9,730,000  | 9,730,000                         | 9,730,000  | 29,190,000 |  |       |
|                    |                                                                                 |                                                                                                                                                                                                                                                                                                                         |                                                                     | (4) International fellowship program on Biosafety and Biosecurity 1 weeks Travel cost @ 1000USD Tuition @2,000 Perdiem and accommodation @ 2,800 2 people per year | International                                                    | number of staff trained on international programfor biosafety and biosecurity | Budget                           | N                     |                                             | 7,656,000                         | 1000+ 2000+ 2800                                                                                                                                          |                                                                                                                                                                                                                                                                                         | 2 2 2   | -          | 15,312,000 | 15,312,000                        | 15,312,000 | 61,248,000 |  |       |

## MATRIX FOR THE DEVELOPMENT OF NATIONAL ACTION PLAN FOR HEALTH SECURITY 2018 - 2022

## PREVENT

General Objective: To prevent and reduce the likelihood of outbreaks and other public health hazards and events defined by IHR (2005).

| GOAL                |                                                                                                                                                                                                                                                                                         | Surveillance system in place for prioritized zoonotic diseases                                                                                                                                                                               |                                                                    |                                                                                             |                                                                  |                                                                 |                                  |                          |                                             |                                    |                        |      |      |             |             |                                               |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------|------------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------|--------------------------|---------------------------------------------|------------------------------------|------------------------|------|------|-------------|-------------|-----------------------------------------------|
| TECHNICAL AREA      | 1.7                                                                                                                                                                                                                                                                                     | Immunization                                                                                                                                                                                                                                 |                                                                    |                                                                                             |                                                                  |                                                                 |                                  |                          |                                             |                                    |                        |      |      |             |             |                                               |
| JEE Indicator       | 1.7.1                                                                                                                                                                                                                                                                                   | Vaccine coverage (measles) as part of national program (Score 3 )                                                                                                                                                                            |                                                                    |                                                                                             |                                                                  |                                                                 |                                  |                          |                                             |                                    |                        |      |      |             |             |                                               |
| JEE Scores          | 3                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                              |                                                                    |                                                                                             |                                                                  |                                                                 |                                  |                          |                                             |                                    |                        |      |      |             |             |                                               |
| JEE recommendations |                                                                                                                                                                                                                                                                                         | * Conduct an EPI coverage survey<br>* Develop a strategy/plan to cover the low coverage areas<br>* Strengthen HR capacity for supply, operations and mid-level management/ supervision<br>* Develop communication plan for demand generation |                                                                    |                                                                                             |                                                                  |                                                                 |                                  |                          |                                             |                                    |                        |      |      |             |             |                                               |
| Objective           | To strengthen immunization program management, human resources, financing and service delivery to provide equitable service to all target population including special strategy for peri-urban, slum, migratory population, geographically and socially hard to reach and conflict area |                                                                                                                                                                                                                                              |                                                                    |                                                                                             |                                                                  |                                                                 |                                  |                          |                                             |                                    |                        |      |      |             |             |                                               |
| No                  | Summary of Planned Activities at National Level (Strategic actions)                                                                                                                                                                                                                     | "Responsible authority(s) for Implementation including budget line holder"                                                                                                                                                                   | Related existing plan/ framework/ Programme or on going activities | "Detailed activities (input description for costing)"                                       | Where is the action to be implemented (National or sub-national) | "Output indicators (Monitoring and Evaluation)"                 | Comments or Potential challenges | Existing budget-get(y/n) | Existing budget source (government, donor?) | "Estimated cost (Local currency) " | Year of Implementation |      |      |             |             | Total Estimated cost (Local currency) (Kyats) |
|                     |                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                              |                                                                    |                                                                                             |                                                                  |                                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020 | 2021        | 2022        | TOTAL                                         |
| 1                   | Strengthen leadership management capacity and coordination                                                                                                                                                                                                                              | EPI programme Manager , WHO                                                                                                                                                                                                                  | cMVP (2017 -2021), HS2 proposal                                    | (1) Development and Revision of training package, MLM, IIP, VM, RM, CC, Surveillance and DM | National                                                         |                                                                 |                                  | Y                        | Gavi HSS 2 Grant                            | 84,285,093                         | 1                      | 1    | 1    | 84,285,093  | 84,285,093  | 252,855,280                                   |
|                     |                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                              |                                                                    | (2) Training of master trainers                                                             | National, Sub-Na-tional                                          |                                                                 |                                  | Y                        | Gavi HSS 2 Grant                            | 23,504,880                         | 1                      | 1    | 1    | 23,504,880  | 23,504,880  | 70,514,640                                    |
|                     |                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                              |                                                                    | (3) Improvement of EPI office                                                               | National                                                         |                                                                 |                                  | Y                        | Gavi HSS 2 Grant                            | 523,500,720                        | 1                      |      |      | 523,500,720 | -           | 523,500,720                                   |
|                     |                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                              |                                                                    | (4) Multi level Management training to Township Medical Officer                             | National, Sub-Na-tional                                          |                                                                 |                                  | Y                        | Gavi HSS 2 Grant                            | 96,923,573                         | 1                      | 1    | 1    | 96,923,573  | 96,923,573  | 290,770,720                                   |
|                     |                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                              |                                                                    | (5) Develop capacity building of Basic Health Workers through IIP trainings at all level    | National, Sub-Na-tional                                          |                                                                 |                                  | Y                        | Gavi HSS 2 Grant                            | 660,414,640                        | 1                      | 1    | 1    | 660,414,640 | 660,414,640 | 1,981,243,920                                 |
|                     |                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                              |                                                                    | (6) Review meetings and development of operational plan at township levels                  | Sub-Na-tional                                                    | Number of Townships with annual Immuniza-tion operational plan. |                                  | Y                        | Gavi HSS 2 Grant                            | 749,308,773                        | 1                      | 1    | 1    | 749,308,773 | 749,308,773 | 2,247,926,320                                 |
|                     |                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                              |                                                                    | (7) Review meetings and development of operational plan at SR levels                        | Sub-Na-tional                                                    |                                                                 |                                  | Y                        | Gavi HSS 2 Grant                            | 133,858,000                        | 1                      | 1    | 1    | 133,858,000 | 133,858,000 | 401,574,000                                   |
|                     |                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                              |                                                                    | (8) Review meetings and development of operational plan at Central level                    | National                                                         |                                                                 |                                  | Y                        | Gavi HSS 2 Grant                            | 56,113,147                         | 1                      | 1    | 1    | 56,113,147  | 56,113,147  | 168,339,440                                   |

# NATIONAL ACTION PLAN FOR HEALTH SECURITY (NAPHS)

| No | Summary of Planned Activities at National Level (Strategic actions) | "Responsible authority(s) for implementation including budget line holder" | Related existing plan/ framework / Programme or on going activities | "Detailed activities (input description for costing)"       | Where is the action to be implemented (National or sub-national) | "Output indicators (Monitoring and Evaluation)" | Comments or Potential challenges | Existing budget (y/n) | Existing budget source (government, donor?) | "Estimated cost (Local currency)" |  |  | Total Cost Year in Local Currency |      |      |      |      |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|    |                                                                     |                                                                            |                                                                     |                                                             |                                                                  |                                                 |                                  |                       |                                             |                                   |  |  | Year of implementation            |      |      |      |      |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                                     |                                                             |                                                                  |                                                 |                                  |                       |                                             |                                   |  |  | 2018                              | 2019 | 2020 | 2021 | 2022 |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                                     | (9) Supervision visit for EPI team leader at township level | Sub-National                                                     |                                                 |                                  | Y                     | Gavi HSS 2 Grant                            | 295,199,787                       |  |  |                                   |      |      |      |      |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

|   |                                                                  |                                      |                                                                            |                        |                                                                                                                                                                             |   |                  |               |  |  |  |  |   |   |             |               |   |               |
|---|------------------------------------------------------------------|--------------------------------------|----------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------------------|---------------|--|--|--|--|---|---|-------------|---------------|---|---------------|
|   |                                                                  |                                      | (3) GIS based microplanning to identify hard to reach townships            | National, Sub-National | Proportion of townships using GISbased microplanning map for all immunization microplans                                                                                    | Y | Gavi HSS 2 Grant | 760,519,480   |  |  |  |  |   | - | 760,519,480 | -             | - | 1,521,038,960 |
|   |                                                                  |                                      | (4) Operational support for hard to reach townships                        | Sub-National           | Number of Township having RHCs with Penta3 80% and above and Number of townships reporting drop out rate between Penta 1 and Penta 3 less than 5%                           | Y | Gavi HSS 2 Grant | 1,039,080,347 |  |  |  |  | 1 | 1 | -           | 1,039,080,347 | - | 3,117,241,040 |
|   |                                                                  |                                      | (5) Integration with private sectors ( MMA, MCH )                          | Sub-National           |                                                                                                                                                                             | Y | Gavi HSS 2 Grant | 117,402,000   |  |  |  |  | 1 | 1 | -           | 117,402,000   | - | 234,804,000   |
|   |                                                                  |                                      | (6) Support to hospitals                                                   | Sub-National           | Number of the hospitals providing immunization services in prioritized townships                                                                                            | Y | Gavi HSS 2 Grant | 79,900,000    |  |  |  |  | 1 | 1 | -           | 79,900,000    | - | 239,700,000   |
|   |                                                                  |                                      | (7) Procurement of furniture and computers                                 | Sub-National           |                                                                                                                                                                             | Y | Gavi HSS 2 Grant | 291,649,280   |  |  |  |  | 1 | 1 | -           | 291,649,280   | - | 874,947,840   |
|   |                                                                  |                                      | (8) Support Immunization and social mobilization corner at 1000 RHC        | Sub-National           |                                                                                                                                                                             | Y | Gavi HSS 2 Grant | 920,001       |  |  |  |  | 2 | 4 | -           | 368,000,224   | - | 920,000,560   |
| 3 | Programme management                                             | EPI programme Manager , WHO , unicef | dMYP (2017 -2021) :HSS2 proposal                                           | National, Sub-National |                                                                                                                                                                             | Y | Gavi HSS 2 Grant | 219,299,093   |  |  |  |  | 1 | 1 | -           | 219,299,093   | - | 657,897,280   |
|   |                                                                  |                                      |                                                                            |                        |                                                                                                                                                                             | Y |                  |               |  |  |  |  |   |   | -           |               | - |               |
| 4 | Strengthen EPI data management, Monitoring and Evaluation System | EPI programme Manager , WHO , unicef | dMYP , HSS2 proposal                                                       | Sub-National           |                                                                                                                                                                             | Y | Gavi HSS 2 Grant | 339,766,987   |  |  |  |  | 1 | 1 | -           | 339,766,987   | - | 1,019,300,960 |
|   |                                                                  |                                      | (2) Print and supply MLM, IIP, immunization registers, charts reports, etc | National, Sub-National |                                                                                                                                                                             | Y | Gavi HSS 2 Grant | 360,360,107   |  |  |  |  | 1 | 1 | -           | 360,360,107   | - | 1,081,080,320 |
|   |                                                                  |                                      | (3) VPD outbreak and response                                              | National, Sub-National |                                                                                                                                                                             | Y | Gavi HSS 2 Grant | 135,399,787   |  |  |  |  | 1 | 1 | -           | 135,399,787   | - | 406,199,360   |
|   |                                                                  |                                      | (4) Support VPD Surveillance                                               | National, Sub-National | Percentage of townships reporting discarded non-measles non-rubella rate Z/ 100,000 population and Proportion of township achieved targeted indicators for VPD surveillance | Y | Gavi HSS 2 Grant | 378,148,000   |  |  |  |  | 1 | 1 | -           | 378,148,000   | - | 1,134,444,000 |
|   |                                                                  |                                      | (5) EPI coverage survey/National EPI programme review                      | National, Sub-National |                                                                                                                                                                             | Y | Gavi HSS 2 Grant | 693,147,120   |  |  |  |  | 1 |   | -           | 693,147,120   | - | 693,147,120   |

# NATIONAL ACTION PLAN FOR HEALTH SECURITY (NAPHS)

| No | Summary of Planned Activities at National Level (Strategic actions) | "Responsible authority(s) for implementation including budget line holder" | Related existing plan/ framework / Programme or on going activities | "Detailed activities (input description for costing)"                                                                                                                            | Where is the action to be implemented (National or sub-national) | "Output indicators (Monitoring and Evaluation)" | Comments or Potential challenges | Existing budget (y/n) | Existing budget source (government, donor?) | "Estimated cost (Local currency)" |  | Total Cost Year in Local Currency |               |               |             |      |   | TOTAL         |
|----|---------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------|----------------------------------|-----------------------|---------------------------------------------|-----------------------------------|--|-----------------------------------|---------------|---------------|-------------|------|---|---------------|
|    |                                                                     |                                                                            |                                                                     |                                                                                                                                                                                  |                                                                  |                                                 |                                  |                       |                                             |                                   |  | Year of implementation            |               |               |             |      |   |               |
|    |                                                                     |                                                                            |                                                                     |                                                                                                                                                                                  |                                                                  |                                                 |                                  |                       |                                             |                                   |  | 2018                              | 2019          | 2020          | 2021        | 2022 |   |               |
|    |                                                                     |                                                                            |                                                                     |                                                                                                                                                                                  |                                                                  | 2 2 2 2<br>0 0 0 0<br>1 1 2 2<br>8 9 0 1 2      |                                  |                       |                                             |                                   |  |                                   |               |               |             |      |   |               |
|    |                                                                     |                                                                            |                                                                     | (6) Operational research                                                                                                                                                         | Sub-National                                                     |                                                 |                                  | Y                     | Gavi HSS 2 Grant                            | 107,893,333                       |  | -                                 | 107,899,333   | 107,893,333   |             |      | - | 323,680,000   |
|    |                                                                     |                                                                            |                                                                     | (7) End of grant evaluation                                                                                                                                                      | National, Sub-National                                           |                                                 |                                  | Y                     | Gavi HSS 2 Grant                            | 98,212,400                        |  | -                                 | -             | -             | 98,212,400  |      | - | 98,212,400    |
|    |                                                                     |                                                                            |                                                                     | (8) Management information system development and expansion especially at Central and sub-depots as well as township cold stores (eLIMS)                                         | National, Sub-National                                           | Proportion of townships that introduced eLIMS   |                                  | Y                     | Gavi HSS 2 Grant                            | 682,634,773                       |  | -                                 | 682,634,773   | 682,634,773   |             |      | - | 2,047,904,320 |
|    |                                                                     |                                                                            |                                                                     | (9) Technical support for Health Information System                                                                                                                              | National                                                         |                                                 |                                  | Y                     | Gavi HSS 2 Grant                            | 108,800,000                       |  | -                                 | 108,800,000   | 108,800,000   |             |      | - | 326,400,000   |
|    |                                                                     |                                                                            |                                                                     | (10) Support Midwives to improve immunization supply chain and coverage data management by providing Android tablet to access DHIS2 , eLIMS, other key health messages           | Sub-National                                                     |                                                 |                                  | Y                     | Gavi HSS 2 Grant                            | 2,040,873,120                     |  | -                                 | 2,040,873,120 | 2,040,873,120 |             |      | - | 4,081,746,240 |
|    |                                                                     |                                                                            |                                                                     | (11) Data quality self-assessment                                                                                                                                                | National, Sub-National                                           |                                                 |                                  | Y                     | Gavi HSS 2 Grant                            | 144,706,720                       |  | -                                 | 144,706,720   | -             | 144,706,720 |      | - | 289,413,440   |
|    |                                                                     |                                                                            |                                                                     | (12) Support implementation of data quality improvement plan                                                                                                                     | National, Sub-National                                           |                                                 |                                  | Y                     | Gavi HSS 2 Grant                            | 278,348,027                       |  | -                                 | 278,348,027   | 278,348,027   |             |      | - | 835,044,080   |
| 5  | Strengthen demand for immunization services                         | EPI programme ,UNICEF, WHO                                                 | dMYP (2017 -2021) ,HS2 proposal                                     | (1) Advocacy meeting with State and Region administration and stakeholders (including EMOs, ELCA, religious leaders, etc) to increase support for immunization service delivery. | Sub-National                                                     |                                                 |                                  | Y                     | Gavi HSS 2 Grant                            | 23,800,000                        |  | -                                 | 23,800,000    | 23,800,000    |             |      | - | 71,400,000    |
|    |                                                                     |                                                                            |                                                                     | (2) Support advocacy meeting at Township level with administrators, NGOs and other stakeholders to increase support for immunization service delivery                            | Sub-National                                                     |                                                 |                                  | Y                     | Gavi HSS 2 Grant                            | 74,325,813                        |  | -                                 | 74,325,813    | 74,325,813    |             |      | - | 222,977,440   |
|    |                                                                     |                                                                            |                                                                     | (3) Organize meetings and workshops for review and updating communication plan of action for strengthening routine immunization.                                                 | National                                                         |                                                 |                                  | Y                     | Gavi HSS 2 Grant                            | 7,954,640                         |  | -                                 | 7,954,640     | 7,954,640     |             |      | - | 23,863,920    |
|    |                                                                     |                                                                            |                                                                     | (4) Support MoHS in the development and implementation of new innovations for generating demands on immunization services                                                        | National                                                         |                                                 |                                  | Y                     | Gavi HSS 2 Grant                            | 219,640,000                       |  | -                                 | 219,640,000   | 219,640,000   |             |      | - | 439,280,000   |



## NATIONAL ACTION PLAN FOR HEALTH SECURITY (NAPHS)

|  |  |  |                                                                                                                                                                                                                                         |                        |  |  |  |   |                  |             |  |  |  |  |   |   |   |   |             |             |             |             |             |               |             |
|--|--|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--|--|--|---|------------------|-------------|--|--|--|--|---|---|---|---|-------------|-------------|-------------|-------------|-------------|---------------|-------------|
|  |  |  | (5) Support development, designing, piloting, production and distribution of multi-channel communication materials with harmonized theme at national level                                                                              | National, Sub-National |  |  |  | Y | Gavi HSS 2 Grant | 217,406,880 |  |  |  |  | 1 | 1 | 1 | - | 217,406,880 | 217,406,880 | 217,406,880 | 217,406,880 | -           | 652,220,640   |             |
|  |  |  | (6) Support MOHS in assessment, development, prototyping, implementation, and monitoring of contextualized communication plan of actions in ethnics and socially distanced communities by using human-centered design thinking approach | National, Sub-National |  |  |  | Y | Gavi HSS 2 Grant | 217,406,880 |  |  |  |  | 1 | 1 | 1 | - | 217,406,880 | 217,406,880 | 217,406,880 | 217,406,880 | -           | 652,220,640   |             |
|  |  |  | (7) Development and roll out of Social Media Strategy on demand creation for immunization                                                                                                                                               | National, Sub-National |  |  |  | Y | Gavi HSS 2 Grant | 77,157,333  |  |  |  |  | 1 | 1 | 1 | - | 77,157,333  | 77,157,333  | 77,157,333  | 77,157,333  | -           | 231,472,000   |             |
|  |  |  | (8) Development, piloting and scaling up of school-based communication interventions on immunization                                                                                                                                    | National, Sub-National |  |  |  | Y | Gavi HSS 2 Grant | 558,096,400 |  |  |  |  | 1 |   |   | - | 558,096,400 | -           | -           | -           | -           | 558,096,400   |             |
|  |  |  | (9) Development and Implementation of Risk Communication Strategy                                                                                                                                                                       | National, Sub-National |  |  |  | Y | Gavi HSS 2 Grant | 69,586,667  |  |  |  |  | 1 | 1 | 1 | - | 69,586,667  | 69,586,667  | 69,586,667  | 69,586,667  | -           | 208,760,000   |             |
|  |  |  | (10) Increase awareness among caregivers and BHS on immunization through installation of Minibillboards at RHC and SRHCs.                                                                                                               | Sub-National           |  |  |  | Y | Gavi HSS 2 Grant | 93,330,000  |  |  |  |  |   | 1 | 1 | - | -           | 93,330,000  | 93,330,000  | 93,330,000  | 93,330,000  | -             | 186,660,000 |
|  |  |  | (12) Community mobilization                                                                                                                                                                                                             | Sub-National           |  |  |  | Y | Gavi HSS 2 Grant | 528,000,053 |  |  |  |  | 1 | 1 | 1 | - | 528,000,053 | 528,000,053 | 528,000,053 | 528,000,053 | -           | 1,584,000,160 |             |
|  |  |  | (13) Roll out of communication campaign to strengthen routine immunization through multiple communication channels.                                                                                                                     | National, Sub-National |  |  |  | Y | Gavi HSS 2 Grant | 36,266,667  |  |  |  |  | 1 | 1 | 1 | - | 36,266,667  | 36,266,667  | 36,266,667  | 36,266,667  | -           | 108,800,000   |             |
|  |  |  | (14) Development of IPC/I package, Roll out of IPC/I training and companion package at central and State/Region level and monitoring/supportive supervision to ensure application of IPC/I skills by BHS.                               | National, Sub-National |  |  |  | Y | Gavi HSS 2 Grant | 61,622,053  |  |  |  |  | 1 | 1 | 1 | - | 61,622,053  | 61,622,053  | 61,622,053  | 61,622,053  | -           | 184,866,160   |             |
|  |  |  | (15) Enhance capacity of BHS to dialogue with caregivers on importance of immunization through Interpersonal communication (IPC) skills training.                                                                                       | Sub-National           |  |  |  | Y | Gavi HSS 2 Grant | 124,717,440 |  |  |  |  |   | 1 | 1 | - | -           | 124,717,440 | 124,717,440 | 124,717,440 | 124,717,440 | -             | 249,634,880 |
|  |  |  | (16) Support MoHS in the planning and implementation of KAP assessment                                                                                                                                                                  | National               |  |  |  | Y | Gavi HSS 2 Grant | 64,848,427  |  |  |  |  | 1 | 1 | 1 | - | 64,848,427  | 64,848,427  | 64,848,427  | 64,848,427  | -           | 194,545,280   |             |
|  |  |  | (17) Facilitate Health talk per villages using dance, road show, street theater (every alternate month in selected villages).                                                                                                           | Sub-National           |  |  |  | Y | Gavi HSS 2 Grant | 108,528,000 |  |  |  |  | 1 | 1 | 1 | - | 108,528,000 | 108,528,000 | 108,528,000 | 108,528,000 | -           | 325,584,000   |             |

| No                 | Summary of Planned Activities at National Level (Strategic actions) | "Responsible authority(s) for Implementation including budget line holder" | Related existing plan/ Programme or on going activities | "Detailed activities (Input description for costing)"                                                                                                                                                                                                                                   | Where action to be implemented (National or sub-national) | "Output indicators (Monitoring and Evaluation)"                                  | Comments or Potential challenges | Existing budget get(y/n) | Existing budget source (government, donor?) | "Estimated cost (Local currency)" |            |            | Year of implementation<br>2018<br>2019<br>2020<br>2021<br>2022<br>TOTAL | Total Cost Year in Local Currency |
|--------------------|---------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------|--------------------------|---------------------------------------------|-----------------------------------|------------|------------|-------------------------------------------------------------------------|-----------------------------------|
|                    |                                                                     |                                                                            |                                                         | (18) Assessment on knowledge, attitude and practice (KAP) for different geographic areas and different ethnic groups).                                                                                                                                                                  | Sub-National                                              | Percentage of caregivers knowing about benefit of immunization through KAP study |                                  | Y                        | Gavi HSS 2 Grant                            | 204,000,000                       | -          | -          | -                                                                       | 408,000,000                       |
|                    |                                                                     |                                                                            |                                                         | (19) Monitoring and evaluation of multi-channel communication interventions                                                                                                                                                                                                             | National                                                  |                                                                                  |                                  | Y                        | Gavi HSS 2 Grant                            | 25,785,600                        | -          | -          | -                                                                       | 77,356,800                        |
|                    |                                                                     |                                                                            |                                                         | (20) IPC training on MMCWA volunteers                                                                                                                                                                                                                                                   | Sub-National                                              |                                                                                  |                                  | Y                        | Gavi HSS 2 Grant                            | 110,599,960                       | -          | -          | -                                                                       | 221,199,920                       |
|                    |                                                                     |                                                                            |                                                         | (20) Increase awareness on immunization through commemoration of international immunization days event (including global Immunization week).                                                                                                                                            | National, Sub-National                                    |                                                                                  |                                  | Y                        | Gavi HSS 2 Grant                            | 27,034,080                        | -          | -          | -                                                                       | 81,102,240                        |
|                    |                                                                     |                                                                            |                                                         | (21) Increase support to immunization service delivery through Advocacy Meetings facilitated by cEPI to Government, INGOs /NGOs, professional bodies and special administrative regions and other relevant stakeholders                                                                 | National                                                  |                                                                                  |                                  | Y                        | Gavi HSS 2 Grant                            | 50,704,880                        | -          | -          | -                                                                       | 152,114,640                       |
|                    |                                                                     |                                                                            |                                                         | (22) Facilitation Meeting of school teachers in identification of under vaccinated children at school entry                                                                                                                                                                             | Sub-National                                              |                                                                                  |                                  | Y                        | Gavi HSS 2 Grant                            | 533,045,200                       | -          | -          | -                                                                       | 533,045,200                       |
| EE Indicator       | 1.7.2                                                               |                                                                            |                                                         | National vaccine access and delivery (score 4 )                                                                                                                                                                                                                                         |                                                           |                                                                                  |                                  |                          |                                             |                                   |            |            |                                                                         |                                   |
| EE Scores          | 4                                                                   |                                                                            |                                                         |                                                                                                                                                                                                                                                                                         |                                                           |                                                                                  |                                  |                          |                                             |                                   |            |            |                                                                         |                                   |
| EE recommendations |                                                                     |                                                                            |                                                         | * Conduct an EPI coverage survey<br>* Develop a strategy/plan to cover the low coverage areas<br>* Strengthen HR capacity for supply, operations and mid-level management/ supervision<br>* Develop communication plan for demand generation                                            |                                                           |                                                                                  |                                  |                          |                                             |                                   |            |            |                                                                         |                                   |
| Objective          |                                                                     |                                                                            |                                                         | To strengthen immunization program management, human resources, financing and service delivery to provide equitable service to all target population including special strategy for peri-urban, slum, migratory population, geographically and socially hard to reach and conflict area |                                                           |                                                                                  |                                  |                          |                                             |                                   |            |            |                                                                         |                                   |
| 1                  | Implement Cold Chain Expansion and Improvement Plan                 | EPI programme ,UNICEF, WHO                                                 | EVM Improvement plan, CCEOP , HSS2 , cMPP               | (1) Procurement of Container/Box trucks for CR and 23 Sub-depots                                                                                                                                                                                                                        | Sub-National                                              |                                                                                  |                                  | Y                        | Gavi HSS 2 Grant                            | 40,800,000                        | -          | -          | -                                                                       | 1,020,000,000                     |
|                    |                                                                     |                                                                            |                                                         | (2) Support procurement and installation of cold rooms (40m3 for central cold room and 10/20 m3 for sub-depot                                                                                                                                                                           | National, Sub-National                                    |                                                                                  |                                  | Y                        | Gavi HSS 2 Grant                            | 69,854,545                        | -          | -          | -                                                                       | 768,400,000                       |
|                    |                                                                     |                                                                            |                                                         | (3) Phase Servo Stabilizers (15 KVA) shipped and installed                                                                                                                                                                                                                              | Sub-National                                              |                                                                                  |                                  | Y                        | Gavi HSS 2 Grant                            | 2,720,000                         | 16,320,000 | 13,600,000 | -                                                                       | 29,920,000                        |

## NATIONAL ACTION PLAN FOR HEALTH SECURITY (NAPHS)

|  |  |  |                                                                                                                                                                                          |                        |                                                                                                                                 |  |   |                  |             |  |  |  |                            |        |  |   |             |               |   |   |               |
|--|--|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------------------------------------------------------------------------------------------------------------------------|--|---|------------------|-------------|--|--|--|----------------------------|--------|--|---|-------------|---------------|---|---|---------------|
|  |  |  | (4) Purchase 150 KVA generating set with auto start to provide back up power to 8 cold rooms                                                                                             | Sub-national           |                                                                                                                                 |  | Y | Gavi HSS 2 Grant | 95,200,000  |  |  |  | 1                          |        |  | - | 95,200,000  | -             | - | - | 95,200,000    |
|  |  |  | (5) Support in preventing fire in cold chain store through provision of fire extinguisher.                                                                                               | Sub-National           |                                                                                                                                 |  | Y | Gavi HSS 2 Grant | 272,000     |  |  |  | 3<br>5<br>3                |        |  | - | 96,016,000  | -             | - | - | 96,016,000    |
|  |  |  | (6) Ensure cold chain are protected through procurement and installation of voltage stabilizer.                                                                                          | Sub-National           |                                                                                                                                 |  | Y | Gavi HSS 2 Grant | 136,000     |  |  |  | 8<br>1<br>9<br>9           | 6      |  | - | 11,016,000  | 95,064,000    | - | - | 106,080,000   |
|  |  |  | (7) Procure and install vaccine refrigerators (VLS 200A)                                                                                                                                 | Sub-National           | Proportion of RHC's in hard to reach areas (in printized townships) equipped with at least one refrigerator for vaccine storage |  | Y | Gavi HSS 2 Grant | 2,472,480   |  |  |  | 1<br>5<br>1                | 2      |  | - | 37,087,200  | 51,922,080    | - | - | 89,009,280    |
|  |  |  | (8) Purchase long term passive storage devices (35 days)                                                                                                                                 | Sub-National           |                                                                                                                                 |  | Y | Gavi HSS 2 Grant | 4,138,480   |  |  |  |                            | 5<br>0 |  | - | -           | 206,924,000   | - | - | 206,924,000   |
|  |  |  | (9) Support electrification of health facilities in remote hard to reach areas (including provision of solar power system/minigrid ) to increase access to vaccines throughout the month | Sub-National           |                                                                                                                                 |  | Y | Gavi HSS 2 Grant | 2,720,000   |  |  |  | 4<br>0<br>4<br>0<br>0<br>0 | 4      |  | - | 108,800,000 | 108,800,000   | - | - | 326,400,000   |
|  |  |  | (10) Technical support and facilitation of operations for management of cold chain installation, repair and maintenance, inventory management                                            | National               |                                                                                                                                 |  | Y | Gavi HSS 2 Grant | 850,000,000 |  |  |  | 1<br>1<br>1                | 1      |  | - | 850,000,000 | 850,000,000   | - | - | 2,550,000,000 |
|  |  |  | (11) Additional 7% freight charges                                                                                                                                                       | National               |                                                                                                                                 |  | Y | Gavi HSS 2 Grant | 144,731,200 |  |  |  | 1                          | 1      |  | - | 144,731,200 | 144,731,200   | - | - | 289,462,400   |
|  |  |  | (12) Spareparts for the new and replaced refrigerators (15% of all equipments)                                                                                                           | Sub-National           |                                                                                                                                 |  | Y | Gavi HSS 2 Grant | 337,552,000 |  |  |  |                            | 1      |  | - | -           | 337,552,000   | - | - | 337,552,000   |
|  |  |  | (13) Modernize and expand central vaccine store (CCR ) through construction 840m2 new cold rooms.                                                                                        | National, Sub-National |                                                                                                                                 |  | Y | Gavi HSS 2 Grant | 322,917     |  |  |  | 8<br>4<br>0                |        |  | - | 271,250,640 | -             | - | - | 271,250,640   |
|  |  |  | (14) Create storage space of 1800 m2 building for dry goods (expansion of central vaccine store) and (1040 m2 building for dry goods for sub-depots).                                    | National, Sub-National |                                                                                                                                 |  | Y | Gavi HSS 2 Grant | 322,917     |  |  |  | 1<br>0<br>8<br>4<br>0<br>0 | 1      |  | - | 335,833,841 | 581,250,879   | - | - | 917,084,720   |
|  |  |  | (15) Construction of Structure to house 7 additional cold room in selected sub-depots.                                                                                                   | Sub-National           |                                                                                                                                 |  | Y | Gavi HSS 2 Grant | 484,376,046 |  |  |  | 2<br>3<br>2                |        |  | - | 968,752,091 | 1,453,128,137 | - | - | 3,390,832,320 |
|  |  |  | (16) Utility and equipment pluse services: power management, distribution, etc and fixtures and fitting (30%)                                                                            | National, Sub-National |                                                                                                                                 |  | Y | Gavi HSS 2 Grant | 356,159,973 |  |  |  | 1<br>1<br>1                |        |  | - | 356,159,973 | 356,159,973   | - | - | 1,068,479,920 |

# NATIONAL ACTION PLAN FOR HEALTH SECURITY (NAPHS)

| No | Summary of Planned Activities at National Level (Strategic actions) | "Responsible authority(s) for implementation including budget line holder" | Related existing plan/framework/Programme or on going activities | "Detailed activities (input description for costing)"                                                                                                                                 | Where is the action to be implemented (National or sub-national) | "Output indicators (Monitoring and Evaluation)"                                                                       | Comments or Potential challenges | Existing budget (y/n) | Existing budget source (government, donor?) | "Estimated cost (Local currency)" |  |  | Total Cost Year in Local Currency |             |               |             |      | TOTAL         |  |
|----|---------------------------------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------|---------------------------------------------|-----------------------------------|--|--|-----------------------------------|-------------|---------------|-------------|------|---------------|--|
|    |                                                                     |                                                                            |                                                                  |                                                                                                                                                                                       |                                                                  |                                                                                                                       |                                  |                       |                                             |                                   |  |  | Year of implementation            |             |               |             |      |               |  |
|    |                                                                     |                                                                            |                                                                  |                                                                                                                                                                                       |                                                                  |                                                                                                                       |                                  |                       |                                             |                                   |  |  | 2018                              | 2019        | 2020          | 2021        | 2022 |               |  |
|    |                                                                     |                                                                            |                                                                  | (17) Central store continuous temperature monitoring and alarm system with remote data communication and 3 years licence (1700 USD/MC/y)(smart view cold room temperature monitoring) | Sub-National                                                     |                                                                                                                       |                                  | Y                     | Gavi HSS 2 Grant                            | 6,936,000                         |  |  | 1 1 0 0 0 0 1 2                   | 110,976,000 | 69,360,000    | -           | -    | 180,336,000   |  |
|    |                                                                     |                                                                            |                                                                  | (18) Temperature mapping kit to calibrate new and existing cold rooms (27 sensors per kit, micro router and connect gate)                                                             | Sub-National                                                     |                                                                                                                       |                                  | Y                     | Gavi HSS 2 Grant                            | 4,760,000                         |  |  | 4                                 | 19,040,000  | -             | -           | -    | 19,040,000    |  |
|    |                                                                     |                                                                            |                                                                  | (19) ColdTrace 5 (CTS) (Nexleaf)                                                                                                                                                      | Sub-National                                                     |                                                                                                                       |                                  | Y                     | Gavi HSS 2 Grant                            | 314,160                           |  |  | 6 0 0 0                           | -           | 188,496,000   | -           | -    | 188,496,000   |  |
|    |                                                                     |                                                                            |                                                                  | (20) Freeze indicators                                                                                                                                                                | Sub-National                                                     | Proportion of RHCs in prioritised townships equipped with temperature monitoring devices in all vaccine refrigerators |                                  | Y                     | Gavi HSS 2 Grant                            | 6,800                             |  |  | 5 5 0 0 0 0 0 0                   | 34,000,000  | 34,000,000    | -           | -    | 68,000,000    |  |
|    |                                                                     |                                                                            |                                                                  | (21) Computers, UPS, software updates and IT services                                                                                                                                 | Sub-National                                                     |                                                                                                                       |                                  | Y                     | Gavi HSS 2 Grant                            | 2,222,740                         |  |  | 2 3                               | -           | 51,111,520    | -           | -    | 51,111,520    |  |
|    |                                                                     |                                                                            |                                                                  | (22) Purchase of solar direct drive vaccine refrigerators (TCW 40 SDD)                                                                                                                | Sub-National                                                     |                                                                                                                       |                                  | Y                     | Gavi HSS 2 Grant                            | 9,462,880                         |  |  | 1 5 0 0                           | -           | 1,419,432,000 | -           | -    | 1,419,432,000 |  |
|    |                                                                     |                                                                            |                                                                  | (23) Data communication fees (DTR's with Simm) 3 USD/month and cold rooms                                                                                                             | Sub-National                                                     |                                                                                                                       |                                  | Y                     | Gavi HSS 2 Grant                            | 46,169,733                        |  |  | 1 1 1                             | -           | 46,169,733    | 46,169,733  | -    | 138,509,200   |  |
|    |                                                                     |                                                                            |                                                                  | (24) Develop SOP for the management of shipment follow up and clearance procedures.                                                                                                   | National                                                         |                                                                                                                       |                                  | Y                     | Gavi HSS 2 Grant                            | 86,516,400                        |  |  | 1                                 | -           | -             | -           | -    | 86,516,400    |  |
|    |                                                                     |                                                                            |                                                                  | (25) Technical support and oversight in contract and procurement management by CEPI and Procurement/supply unit in DoPH.                                                              | National                                                         |                                                                                                                       |                                  | Y                     | Gavi HSS 2 Grant                            | 92,285,714                        |  |  | 3 2 2                             | -           | 184,571,429   | 184,571,429 | -    | 646,000,000   |  |
|    |                                                                     |                                                                            |                                                                  | (26) Support distribution of EPI supplies from Sub-depts to townships                                                                                                                 | Sub-National                                                     |                                                                                                                       |                                  | Y                     | Gavi HSS 2 Grant                            | 359,040,000                       |  |  | 1 1 1                             | -           | 359,040,000   | 359,040,000 | -    | 1,077,120,000 |  |
|    |                                                                     |                                                                            |                                                                  | (27) Procurement of cold van                                                                                                                                                          | Sub-National                                                     |                                                                                                                       |                                  | Y                     | Gavi HSS 2 Grant                            | 81,600,000                        |  |  | 2 2 4                             | -           | 163,200,000   | 163,200,000 | -    | 652,800,000   |  |
|    |                                                                     |                                                                            |                                                                  | (28) Operation and maintenance for transport operation (7%) and spareparts for transport equipment (15%)                                                                              | National                                                         |                                                                                                                       |                                  | Y                     | Gavi HSS 2 Grant                            | 26,928,000                        |  |  | 1 1 1                             | -           | 26,928,000    | 26,928,000  | -    | 80,784,000    |  |

## NATIONAL ACTION PLAN FOR HEALTH SECURITY (NAPHS)

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|  |  |  | (29) Procurement of motorcycle | Sub-Na-<br>tional |  |  | Y | Gavi HSS 2<br>Grant | 990,080 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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## NATIONAL ACTION PLAN FOR HEALTH SECURITY (NAPHS)

| No | Summary of Planned Activities at National Level (Strategic actions) | "Responsible authority(s) for implementation including budget line holder" | Related existing plan/ Framework or on going activities | "Detailed activities (input description for costing)"                                                                        | Where is the action to be implemented (National or sub-national) | "Output indicators (Monitoring and Evaluation)" | Comments or Potential challenges | Existing budget (y/n) | Existing budget source (government, donor?) | "Estimated cost (Local currency)" |  |  |  |   | Year of implementation | Total Cost Year in Local Currency       |             |             |             |               |      |      |      |      |       |
|----|---------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------|----------------------------------|-----------------------|---------------------------------------------|-----------------------------------|--|--|--|---|------------------------|-----------------------------------------|-------------|-------------|-------------|---------------|------|------|------|------|-------|
|    |                                                                     |                                                                            |                                                         |                                                                                                                              |                                                                  |                                                 |                                  |                       |                                             |                                   |  |  |  |   |                        | 2018                                    |             |             |             |               | 2019 | 2020 | 2021 | 2022 | TOTAL |
|    |                                                                     |                                                                            |                                                         |                                                                                                                              |                                                                  |                                                 |                                  |                       |                                             |                                   |  |  |  |   |                        | 2 2 2 2 2 2 0 0 0 0 1 1 2 2 2 8 9 0 1 2 | 1 1 1       |             |             |               |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                         | (42) Support vaccine transport from townships to RHCs, Sub Centers through third party logistics provider in pilot townships | Sub-National                                                     |                                                 |                                  | Y                     | Gavi HSS 2 Grant                            | 97,920,000                        |  |  |  | - | 97,920,000             | 97,920,000                              | 97,920,000  | -           | 293,760,000 |               |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                         | (43) Purchase 50-100 KVA generating set with auto start to provide back up power to 6 Sub-depots                             | Sub-National                                                     |                                                 |                                  | Y                     | Gavi HSS 2 Grant                            | 29,920,000                        |  |  |  | - | 5 1                    | 149,600,000                             | 29,920,000  | -           | 179,520,000 |               |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                         | (44) Ensure cold chain are protected through procurement and installation of voltage stabilizer.                             | Sub-National                                                     |                                                 |                                  | Y                     | Gavi HSS 2 Grant                            | 136,000                           |  |  |  | - | 9 7                    | 13,192,000                              | -           | -           | 13,192,000  |               |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                         | (45) Procure and install vaccine refrigerators (VLS 200A)                                                                    | Sub-National                                                     |                                                 |                                  | Y                     | Gavi HSS 2 Grant                            | 1,632,000                         |  |  |  | - | 5 2 0 5 0              | -                                       | 81,600,000  | 408,000,000 | -           | 489,600,000   |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                         | (46) Procure and install vaccine refrigerators (VLS 400A)                                                                    | Sub-National                                                     |                                                 |                                  | Y                     | Gavi HSS 2 Grant                            | 2,040,000                         |  |  |  | - | 5 4 0 2                | -                                       | 102,000,000 | 85,680,000  | -           | 187,680,000   |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                         | (47) Procure and install vaccine refrigerators (VLS 400A)                                                                    | Sub-National                                                     |                                                 |                                  | Y                     | Gavi HSS 2 Grant                            | 2,964,800                         |  |  |  | - | 5 2                    | -                                       | 154,169,600 | -           | -           | 154,169,600   |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                         | (50) Freeze protected vaccine carriers                                                                                       | Sub-National                                                     |                                                 |                                  | Y                     | Gavi HSS 2 Grant                            | 81,600                            |  |  |  | - | 1 2 5 0 0 0 0          | 122,400,000                             | 163,200,000 | -           | 285,600,000 |               |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                         | (51) Purchase solar direct drive vaccine refrigerators (TCW 2043 SDD)                                                        | Sub-National                                                     |                                                 |                                  | Y                     | Gavi HSS 2 Grant                            | 14,022,960                        |  |  |  | - | 1 7                    | 14,022,960                              | 98,160,720  | -           | -           | 112,183,680   |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                         | (52) Purchase solar direct drive vaccine refrigerators (TCW 2043 SDD)                                                        | Sub-National                                                     |                                                 |                                  | Y                     | Gavi HSS 2 Grant                            | 12,240,000                        |  |  |  | - | 2 0                    | -                                       | 244,800,000 | -           | -           | 244,800,000   |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                         | (53) Purchase solar direct drive vaccine refrigerators (TCW 40 SDD)                                                          | Sub-National                                                     |                                                 |                                  | Y                     | Gavi HSS 2 Grant                            | 9,793,360                         |  |  |  | - | 1 3 6 8 0              | 1,566,937,600                           | 372,147,680 | -           | -           | 1,939,085,280 |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                         | (54) Spareparts for the new and replaced refrigerators                                                                       | Sub-National                                                     |                                                 |                                  | Y                     | Gavi HSS 2 Grant                            | 279,412,000                       |  |  |  | - | 1                      | -                                       | 279,412,000 | -           | -           | 279,412,000   |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                         | (55) Freeze protected vaccine carriers                                                                                       | Sub-National                                                     |                                                 |                                  | Y                     | Gavi HSS 2 Grant                            | 81,600                            |  |  |  | - | 5 7 5 0                | -                                       | 469,200,000 | -           | -           | 469,200,000   |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                         | (56) Freeze protected Cold Box                                                                                               | Sub-National                                                     |                                                 |                                  | Y                     | Gavi HSS 2 Grant                            | 544,000                           |  |  |  | - | 1 3 4 8                | -                                       | 733,312,000 | -           | -           | 733,312,000   |      |      |      |      |       |

## DETECT

General Objective: To do promptly detect threats (due to all hazards) to save lives and ensure proper control measures.

| GOAL                | National Laboratory System                                                                                                                                                           |                                                                                                                                                                                                                              |                                                                   |                                                                                                                                                                                               |                                                                  |                                                                                 |                                                                        |                      |                                             |                                   |                        |           |      |      |      | Total<br>Estimated<br>cost<br>(USD)                       |                                   |       |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------------------------|------------------------------------------------------------------------|----------------------|---------------------------------------------|-----------------------------------|------------------------|-----------|------|------|------|-----------------------------------------------------------|-----------------------------------|-------|
| TECHNICAL AREA      | Detect 1                                                                                                                                                                             | Vaccine coverage (measles) as part of national program (Score 3)                                                                                                                                                             |                                                                   |                                                                                                                                                                                               |                                                                  |                                                                                 |                                                                        |                      |                                             |                                   |                        |           |      |      |      |                                                           |                                   |       |
| JEE Indicator       | D 1.1                                                                                                                                                                                |                                                                                                                                                                                                                              |                                                                   |                                                                                                                                                                                               |                                                                  |                                                                                 |                                                                        |                      |                                             |                                   |                        |           |      |      |      |                                                           |                                   |       |
| JEE Scores          | 3                                                                                                                                                                                    |                                                                                                                                                                                                                              |                                                                   |                                                                                                                                                                                               |                                                                  |                                                                                 |                                                                        |                      |                                             |                                   |                        |           |      |      |      | 32,333,141.93                                             |                                   |       |
| JEE recommendations | *                                                                                                                                                                                    | Establish and maintain systematic collaboration between human and animal health laboratories, the national laboratory system should be considered one entity                                                                 |                                                                   |                                                                                                                                                                                               |                                                                  |                                                                                 |                                                                        |                      |                                             |                                   |                        |           |      |      |      | Total<br>Estimated cost<br>(Local<br>currency)<br>(Kyats) |                                   |       |
|                     | *                                                                                                                                                                                    | Endorse and implement the National Strategic Plan for Health Laboratories (currently drafted)                                                                                                                                |                                                                   |                                                                                                                                                                                               |                                                                  |                                                                                 |                                                                        |                      |                                             |                                   |                        |           |      |      |      |                                                           |                                   |       |
|                     | *                                                                                                                                                                                    | Developing national testing guidelines for clinicians and veterinarians based on financial and practical/factual constraints to maximize the capacity for case diagnosis, indicative surveillance and outbreak contexts      |                                                                   |                                                                                                                                                                                               |                                                                  |                                                                                 |                                                                        |                      |                                             |                                   |                        |           |      |      |      |                                                           |                                   |       |
|                     | *                                                                                                                                                                                    | Improve simple testing capability in remote areas, including point of care diagnostics and harvesting the flora of new combined lateral flow tests on the market, but under tight quality control by the central laboratory. |                                                                   |                                                                                                                                                                                               |                                                                  |                                                                                 |                                                                        |                      |                                             |                                   |                        |           |      |      |      |                                                           |                                   |       |
| Objective           | To strengthen the organizational & management structures for coordination & integration of laboratory services to support clinical & public health objectives                        |                                                                                                                                                                                                                              |                                                                   |                                                                                                                                                                                               |                                                                  |                                                                                 |                                                                        |                      |                                             |                                   |                        |           |      |      |      |                                                           |                                   |       |
| No                  | Summary of Planned Activities at National Level (Strategic actions)                                                                                                                  | "Responsible authority(s) for implementation including budget line holder"                                                                                                                                                   | Related existing plan/framework / Programme or ongoing activities | "Detailed activities (input description for costing)"                                                                                                                                         | Where is the action to be implemented (National or sub-national) | "Output indicators (Monitoring and Evaluation)"                                 | Comments or Potential challenges                                       | Existing budget(y/n) | Existing budget source (government, donor?) | "Estimated cost (Local currency)" | Year of implementation |           |      |      |      |                                                           | Total Cost Year in Local Currency | TOTAL |
|                     |                                                                                                                                                                                      |                                                                                                                                                                                                                              |                                                                   |                                                                                                                                                                                               |                                                                  |                                                                                 |                                                                        |                      |                                             |                                   | 2018                   | 2019      | 2020 | 2021 | 2022 |                                                           |                                   |       |
| 1                   | Formation of National Laboratory Coordination Committee (NLCC) according to Myanmar National Policy on Health Laboratories (MNPHL) which has been already endorsed in September 2016 | NHL, MOHS                                                                                                                                                                                                                    | Myanmar National Policy on Health Laboratories                    | (1) First Stakeholders meeting on advocacy/awareness to focal person at central level for processing the establishment of NLCC according to MNPHL (20 participants, 15 Away, 1 days, 1 times) | National                                                         | NLCC was established Number of stakeholder Meetings done                        | Advocacy for stakeholder to Understand importance of formation of NLCC | Y                    | Development partners                        | 3,620,000                         | -                      | 3,620,000 | -    | -    | -    | -                                                         | 3,620,000                         |       |
|                     |                                                                                                                                                                                      |                                                                                                                                                                                                                              |                                                                   | (2) 2nd Stakeholders meeting at central level for processing the finalization of establishment of NLCC according to MNPHL (20 participants, 15 Away, 1 days, 1 times)                         | National                                                         | NLCC committee was finalized and established Number of stakeholder Meeting done | Advocacy for stakeholder to Understand importance of formation of NLCC | Y                    | Development partners                        | 3,620,000                         | -                      | 3,620,000 | -    | -    | -    | -                                                         | 3,620,000                         |       |



# NATIONAL ACTION PLAN FOR HEALTH SECURITY (NAPHS)

| No | Summary of Planned Activities at National Level (Strategic actions)                                                     | "Responsible authority(s) for implementation including budget line holder" | Related existing plan/ framework/ Programme or on going activities                                                                      | "Detailed activities (input description for costing)"                                                                                                           | Where is the action to be implemented (National or sub-national) | "Output indicators (Monitoring and Evaluation)"                                                                                                                                                                                                                         | Comments or Potential challenges | Existing budget get(y/n) | Existing budget source (government, donor?)         | "Estimated cost (Local currency)" | Year of implementation | Total Cost Year in Local Currency |      |      |      |             |       |
|----|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------|-----------------------------------------------------|-----------------------------------|------------------------|-----------------------------------|------|------|------|-------------|-------|
|    |                                                                                                                         |                                                                            |                                                                                                                                         |                                                                                                                                                                 |                                                                  |                                                                                                                                                                                                                                                                         |                                  |                          |                                                     |                                   |                        |                                   |      |      |      |             |       |
|    |                                                                                                                         |                                                                            |                                                                                                                                         |                                                                                                                                                                 |                                                                  |                                                                                                                                                                                                                                                                         |                                  |                          |                                                     |                                   |                        | 2018                              | 2019 | 2020 | 2021 | 2022        | TOTAL |
|    |                                                                                                                         | NHL, MOHS                                                                  | Myanmar National Policy on Health Laboratories                                                                                          | (3) Quarterly Coordination meeting of NLCC (20 participants, 15 Away, 1 days, 4times/year)                                                                      | National                                                         | Number of stakeholder Quarterly Meetings                                                                                                                                                                                                                                | Multi task and duties of Members | Y                        | Government                                          | 3,620,000                         | 2                      | 2                                 | 2    | 2    | 2    | 50,680,000  |       |
|    |                                                                                                                         |                                                                            |                                                                                                                                         |                                                                                                                                                                 |                                                                  |                                                                                                                                                                                                                                                                         |                                  |                          |                                                     |                                   | 0                      | 0                                 | 0    | 0    | 0    |             |       |
|    |                                                                                                                         |                                                                            |                                                                                                                                         |                                                                                                                                                                 |                                                                  |                                                                                                                                                                                                                                                                         |                                  |                          |                                                     |                                   | 1                      | 1                                 | 1    | 1    | 1    |             |       |
|    |                                                                                                                         |                                                                            |                                                                                                                                         |                                                                                                                                                                 |                                                                  |                                                                                                                                                                                                                                                                         |                                  |                          |                                                     |                                   | 8                      | 9                                 | 0    | 1    | 2    |             |       |
|    |                                                                                                                         |                                                                            |                                                                                                                                         |                                                                                                                                                                 |                                                                  | 1 Meeting : Per diem = 9000 Participants = 20 Days = 1, Participants away = 15 Days away = 3 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0 |                                  |                          |                                                     |                                   |                        |                                   |      |      |      |             |       |
| 2  | Finalization on development of the Drafted National Strategic Plan for Health Laboratories (NSPHL) ( currently drafted) | MOHS/ MOALU/ MODefence                                                     | Drafting of Myanmar National Policy on Health Laboratories                                                                              | (1) Stakeholder meeting to finalize the National Strategic Plan for Health Laboratories ( currently drafted) (50 participants, 40 Away, 1 days, 1 times)        | National                                                         | NSP for health laboratories finalized                                                                                                                                                                                                                                   | Timely Endorsement               | Y                        | Development partners                                | 9,115,000                         | 1                      |                                   |      |      |      | 9,115,000   |       |
|    |                                                                                                                         |                                                                            |                                                                                                                                         |                                                                                                                                                                 |                                                                  |                                                                                                                                                                                                                                                                         |                                  |                          |                                                     |                                   |                        |                                   |      |      |      |             |       |
|    |                                                                                                                         |                                                                            |                                                                                                                                         |                                                                                                                                                                 |                                                                  |                                                                                                                                                                                                                                                                         |                                  |                          |                                                     |                                   |                        |                                   |      |      |      |             |       |
|    |                                                                                                                         |                                                                            |                                                                                                                                         |                                                                                                                                                                 |                                                                  |                                                                                                                                                                                                                                                                         |                                  |                          |                                                     |                                   |                        |                                   |      |      |      |             |       |
|    |                                                                                                                         |                                                                            |                                                                                                                                         |                                                                                                                                                                 |                                                                  | 1 Meeting : Per diem = 9000 Participants = 50 Days = 1, Participants away = 40 Days away = 3 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0 |                                  |                          |                                                     |                                   |                        |                                   |      |      |      |             |       |
|    |                                                                                                                         | NHL, MOHS                                                                  | MOHS                                                                                                                                    | (2) Launching and dissemination workshop/Meetings for NSPHL (60 participants, 50 Away, 1 days, 1 times)                                                         | National & sub-national                                          | Awareness and dissemination of NSP for health laboratories was done                                                                                                                                                                                                     |                                  | Y                        | Development partners                                | 11,240,000                        | 1                      |                                   |      |      |      | 11,240,000  |       |
|    |                                                                                                                         |                                                                            |                                                                                                                                         |                                                                                                                                                                 |                                                                  |                                                                                                                                                                                                                                                                         |                                  |                          |                                                     |                                   |                        |                                   |      |      |      |             |       |
|    |                                                                                                                         |                                                                            |                                                                                                                                         |                                                                                                                                                                 |                                                                  |                                                                                                                                                                                                                                                                         |                                  |                          |                                                     |                                   |                        |                                   |      |      |      |             |       |
|    |                                                                                                                         |                                                                            |                                                                                                                                         |                                                                                                                                                                 |                                                                  |                                                                                                                                                                                                                                                                         |                                  |                          |                                                     |                                   |                        |                                   |      |      |      |             |       |
| 3  | Develop, Review and revise of laboratory related guidelines and instructions.                                           | NHL, MOHS                                                                  | Existing laboratory guidelines and instructions (Infection control guideline, waste management instruction, bio-safety guideline, etc.) | (1) Meetings/Workshops for review and revise of existing guidelines on each areas (40 participants- away 34, 2 days at Yangon, 1 times per year for every year) | National                                                         | Number of laboratory related guidelines and instructions reviewed, revised and developed                                                                                                                                                                                | Multisectoral Participation      | N                        |                                                     | 10,018,000                        | 1                      | 1                                 | 1    | 1    | 1    | 40,072,000  |       |
|    |                                                                                                                         |                                                                            |                                                                                                                                         |                                                                                                                                                                 |                                                                  |                                                                                                                                                                                                                                                                         |                                  |                          |                                                     |                                   |                        |                                   |      |      |      |             |       |
|    |                                                                                                                         |                                                                            |                                                                                                                                         |                                                                                                                                                                 |                                                                  |                                                                                                                                                                                                                                                                         |                                  |                          |                                                     |                                   |                        |                                   |      |      |      |             |       |
|    |                                                                                                                         |                                                                            |                                                                                                                                         |                                                                                                                                                                 |                                                                  |                                                                                                                                                                                                                                                                         |                                  |                          |                                                     |                                   |                        |                                   |      |      |      |             |       |
| 4  | Strengthening of EQAS for medical laboratories at all levels                                                            | NHL, MOHS                                                                  | Myanmar National Policy on Health Laboratories                                                                                          | (1) Training of participants for EQAS (30 participants, Away 30, 2 days, 6 times/year) (2 times each for HIV, Syphilis, CD4 by diffent trainers)                | National & sub-national                                          | Number of Trainings conducted, Number of participating laboratories for EQAS                                                                                                                                                                                            | Infrastructure, Human Resource   | Y                        | Multiple development Partner (E.g UNOPS, JICA, WHO) | 6,410,000                         | 6                      | 6                                 | 6    | 6    | 6    | 192,300,000 |       |
|    |                                                                                                                         |                                                                            |                                                                                                                                         |                                                                                                                                                                 |                                                                  |                                                                                                                                                                                                                                                                         |                                  |                          |                                                     |                                   |                        |                                   |      |      |      |             |       |
|    |                                                                                                                         |                                                                            |                                                                                                                                         |                                                                                                                                                                 |                                                                  |                                                                                                                                                                                                                                                                         |                                  |                          |                                                     |                                   |                        |                                   |      |      |      |             |       |
|    |                                                                                                                         |                                                                            |                                                                                                                                         |                                                                                                                                                                 |                                                                  |                                                                                                                                                                                                                                                                         |                                  |                          |                                                     |                                   |                        |                                   |      |      |      |             |       |

## NATIONAL ACTION PLAN FOR HEALTH SECURITY (NAPHS)

|   |                                                                                            |      |      | (2) Transportation, costs of specimen collection packages, supplies and participation fees related to EQAS (Virology, Bacteriology, Fungal, Parasitology, Immunology and Clinical Pathology departments at NHL)                  | International, National & sub-national | Number of participating laboratories for EQAS<br><br>Number of sample sent for EQAS                             | Human Resource, Lab facilities, Coordination | N |            | 81,450,000                                                                                                                                          |  |  | 1  | 1  | 1  | 1  | 1  | 81,450,000    | 81,450,000    | 81,450,000    | 81,450,000    | 81,450,000    | 407,250,000    |
|---|--------------------------------------------------------------------------------------------|------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------|---|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--|--|----|----|----|----|----|---------------|---------------|---------------|---------------|---------------|----------------|
|   |                                                                                            |      |      | (3) Monitoring & Evaluation visits to follow up hospitals and laboratories under EQAS (2 persons for 3 days, 3 State/ Region per year)                                                                                           | Sub-national                           | Number of participating laboratories with good scores in EQAS<br><br>Number of M & E and Supervision visit done | Budget                                       | N |            | 850,000<br>2 * 3 * 31000 + 2 * 95000 + 1 * 132000 * 3 + 3 * 1 * 26000 = 850000                                                                      |  |  | 3  | 3  | 3  | 3  | 3  | 2,550,000     | 2,550,000     | 2,550,000     | 2,550,000     | 2,550,000     | 12,750,000     |
|   |                                                                                            |      |      |                                                                                                                                                                                                                                  |                                        |                                                                                                                 |                                              |   |            |                                                                                                                                                     |  |  |    |    |    |    |    |               |               |               |               |               |                |
| 5 | Capacity building of laboratory staffs for diagnosis of emerging and re-emerging diseases. | MOHS | MOHS | (1) International training on updated technology upon diagnosis of emerging and re-emerging diseases for laboratory staffs<br>(Total 5200 USD x 2 persons x every years )                                                        | National & sub-national                | Numer of staff trained                                                                                          | Budget                                       | N |            | 6,864,000                                                                                                                                           |  |  | 2  | 2  | 2  | 2  | 2  | 13,728,000    | 13,728,000    | 13,728,000    | 13,728,000    | 13,728,000    | 68,640,000     |
|   |                                                                                            |      |      | (2) Trainings and refresher trainings for <b>diagnosis of EIDs</b> at national level (20 participants, Away 15, 2 days, 2 times/year)                                                                                            | National & sub-national                | Number of training conducted and Number of staff trained                                                        | Budget                                       | N |            | 4,865,000<br>(9000* (20 - 15) * 2 + 15 * 4 * 30000 + 15 * 95000 + 2 * 250000 ( Tue) + 20 * 2 * ( 15000Tue + 10000Tue) + 20 * 25000Tue ) * 1 + 0 + 0 |  |  | 2  | 2  | 2  | 2  | 2  | 9,730,000     | 9,730,000     | 9,730,000     | 9,730,000     | 9,730,000     | 48,650,000     |
|   |                                                                                            |      |      | (3) Training and refresher training of laboratory technician for <b>sample collection and trasporation according to Internation Air Transport Association (IATA)</b> guidelines (20 participants, Away 15, 2 days, 2 times/year) | National & sub-national                | Number of training conducted and Numer of staff trained                                                         | Budget                                       | N |            | 4,865,000<br>(9000* (20 - 15) * 2 + 15 * 4 * 30000 + 15 * 95000 + 2 * 250000 ( Tue) + 20 * 2 * ( 15000Tue + 10000Tue) + 20 * 25000Tue ) * 1 + 0 + 0 |  |  | 2  | 2  | 2  | 2  | 2  | 9,730,000     | 9,730,000     | 9,730,000     | 9,730,000     | 9,730,000     | 48,650,000     |
| 6 | Regular supply and maintenance of laboratory equipment and reagents.                       | MOHS | MOHS | (1) procurement of equipment, supplies and test kits related to diagnosis of emerging and reemerging diseases                                                                                                                    | National & sub-national                | Number and type of equipment, supplies and test kits procured                                                   | Budget                                       | Y | Government | 9,401,553, 183                                                                                                                                      |  |  | 1  | 1  | 1  | 1  | 1  | 9,401,553,183 | 9,401,553,183 | 9,401,553,183 | 9,401,553,183 | 9,401,553,183 | 47,007,765,915 |
|   |                                                                                            | MOHS | MOHS | (2) Maintenance & calibration of equipment (70 equipments/year, 1000 USD/ equipment                                                                                                                                              | National & sub-national                | number of Maintenance and calibration of equipment done                                                         | Budget                                       | N |            | 1,320,000                                                                                                                                           |  |  | 70 | 70 | 70 | 70 | 70 | 92,400,000    | 92,400,000    | 92,400,000    | 92,400,000    | 92,400,000    | 462,000,000    |

| EE Indicator       | D.1.2                                                                                                                                                                                                                          | Specimen referral and transport system                                     |                                                                   |                                                                                                                                                              |                                                           |                                                                                         |                                                                         |                      |                                             |                                                                                                                                                     |                                                                                                                                                                                                                                                                       |                        |   |   |   |   |            |                                   |            |            |             |           |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---|---|---|---|------------|-----------------------------------|------------|------------|-------------|-----------|
| EE Scores          | 3                                                                                                                                                                                                                              |                                                                            |                                                                   |                                                                                                                                                              |                                                           |                                                                                         |                                                                         |                      |                                             |                                                                                                                                                     |                                                                                                                                                                                                                                                                       |                        |   |   |   |   |            |                                   |            |            |             |           |
| EE recommendations | * Establish and maintain systematic collaboration between human and animal health laboratories, the national laboratory system should be considered one entity                                                                 |                                                                            |                                                                   |                                                                                                                                                              |                                                           |                                                                                         |                                                                         |                      |                                             |                                                                                                                                                     |                                                                                                                                                                                                                                                                       |                        |   |   |   |   |            |                                   |            |            |             |           |
|                    | * Endorse and implement the National Strategic Plan for Health Laboratories (currently drafted)                                                                                                                                |                                                                            |                                                                   |                                                                                                                                                              |                                                           |                                                                                         |                                                                         |                      |                                             |                                                                                                                                                     |                                                                                                                                                                                                                                                                       |                        |   |   |   |   |            |                                   |            |            |             |           |
|                    | * Developing national testing guidelines for clinicians and veterinarians based on financial and practical factual constraints to maximize the capacity for case diagnosis, indicative surveillance and outbreak contexts      |                                                                            |                                                                   |                                                                                                                                                              |                                                           |                                                                                         |                                                                         |                      |                                             |                                                                                                                                                     |                                                                                                                                                                                                                                                                       |                        |   |   |   |   |            |                                   |            |            |             |           |
|                    | * Improve simple testing capability in remote areas, including point of care diagnostics and harvesting the flora of new combined lateral flow tests on the market, but under tight quality control by the central laboratory. |                                                                            |                                                                   |                                                                                                                                                              |                                                           |                                                                                         |                                                                         |                      |                                             |                                                                                                                                                     |                                                                                                                                                                                                                                                                       |                        |   |   |   |   |            |                                   |            |            |             |           |
| Objective          | To establish & manage quality management system in all laboratories                                                                                                                                                            |                                                                            |                                                                   |                                                                                                                                                              |                                                           |                                                                                         |                                                                         |                      |                                             |                                                                                                                                                     |                                                                                                                                                                                                                                                                       |                        |   |   |   |   |            |                                   |            |            |             |           |
| No                 | Summary of Planned Activities at National Level(Strategic actions)                                                                                                                                                             | "Responsible authority(s) for Implementation including budget line holder" | Related existing plan/ framework / Programs or ongoing activities | "Detailed activities (Input description for costing)"                                                                                                        | Where action to be implemented (National or sub-national) | "Output Indicators (Monitoring and Evaluation)"                                         | Comments or Potential challenges                                        | Existing budget(y/n) | Existing budget source (government, donor?) | "Estimated cost (Local currency)"                                                                                                                   |                                                                                                                                                                                                                                                                       | Year of implementation |   |   |   |   |            | Total Cost Year in Local Currency |            |            |             |           |
|                    |                                                                                                                                                                                                                                |                                                                            |                                                                   |                                                                                                                                                              |                                                           |                                                                                         |                                                                         |                      |                                             |                                                                                                                                                     |                                                                                                                                                                                                                                                                       | 2                      | 2 | 2 | 2 | 2 | 2018       | 2019                              | 2020       | 2021       | 2022        | TOTAL     |
| 1                  | Development of guidelines for specimen collection, packaging and transport system                                                                                                                                              | MoHS, MoALI                                                                | Biosafety Guidelines                                              | (1) Hiring International consultant for the development of Guidelines (1 person, 5 days)                                                                     | National                                                  | Consultant Hired for Developed of guidelines for specimen referral and transport system | Budget                                                                  | N                    |                                             | 1* 5 * (238920 + 660000) + 1* 1584000 = 6078600                                                                                                     | Number = 1; No of Days : 5 , Per diem = 238920 , Daily rate = 660000 : Travel = 1584000                                                                                                                                                                               | 1                      |   |   |   |   | 6,078,600  | -                                 | -          | -          | -           | 6,078,600 |
|                    |                                                                                                                                                                                                                                | MoHS, MoALI                                                                | Biosafety Guidelines                                              | (2) Consensus meeting/workshop to develop comprehensive guidelines for specimen collection, packaging and transport system (50 participants, Away 40, 1 day) | National                                                  | Comprehensive guidelines for specimen referral and transport system developed           | Budget                                                                  | N                    |                                             | 9,115,000<br>+ 40 * 95000 + 1 * 250000 ( True) + 50 * 1 * (15000True + 10000True) + 50 * 2500True ) * 1 + 0 + 0                                     | 1 Meeting : Per diem = 9000 Participants = 50 Days = 1, Participants away = 40 Days away = 3 Diem away = 30000 Travel costs participants away= 95000, Tea break = 10000, Lunch = 15000, Stationary= 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0 | 1                      |   |   |   |   | -          | 9,115,000                         | -          | -          | -           | 9,115,000 |
| EE Indicator       | D.1.3                                                                                                                                                                                                                          | Effective modern point of care and laboratory based diagnostics            |                                                                   |                                                                                                                                                              |                                                           |                                                                                         |                                                                         |                      |                                             |                                                                                                                                                     |                                                                                                                                                                                                                                                                       |                        |   |   |   |   |            |                                   |            |            |             |           |
| EE Scores          | 2                                                                                                                                                                                                                              |                                                                            |                                                                   |                                                                                                                                                              |                                                           |                                                                                         |                                                                         |                      |                                             |                                                                                                                                                     |                                                                                                                                                                                                                                                                       |                        |   |   |   |   |            |                                   |            |            |             |           |
| EE recommendations | * Establish and maintain systematic collaboration between human and animal health laboratories, the national laboratory system should be considered one entity                                                                 |                                                                            |                                                                   |                                                                                                                                                              |                                                           |                                                                                         |                                                                         |                      |                                             |                                                                                                                                                     |                                                                                                                                                                                                                                                                       |                        |   |   |   |   |            |                                   |            |            |             |           |
|                    | * Endorse and implement the National Strategic Plan for Health Laboratories (currently drafted)                                                                                                                                |                                                                            |                                                                   |                                                                                                                                                              |                                                           |                                                                                         |                                                                         |                      |                                             |                                                                                                                                                     |                                                                                                                                                                                                                                                                       |                        |   |   |   |   |            |                                   |            |            |             |           |
|                    | * Developing national testing guidelines for clinicians and veterinarians based on financial and practical factual constraints to maximize the capacity for case diagnosis, indicative surveillance and outbreak contexts      |                                                                            |                                                                   |                                                                                                                                                              |                                                           |                                                                                         |                                                                         |                      |                                             |                                                                                                                                                     |                                                                                                                                                                                                                                                                       |                        |   |   |   |   |            |                                   |            |            |             |           |
|                    | * Improve simple testing capability in remote areas, including point of care diagnostics and harvesting the flora of new combined lateral flow tests on the market, but under tight quality control by the central laboratory. |                                                                            |                                                                   |                                                                                                                                                              |                                                           |                                                                                         |                                                                         |                      |                                             |                                                                                                                                                     |                                                                                                                                                                                                                                                                       |                        |   |   |   |   |            |                                   |            |            |             |           |
| Objective          | To establish & manage quality management system in all laboratories                                                                                                                                                            |                                                                            |                                                                   |                                                                                                                                                              |                                                           |                                                                                         |                                                                         |                      |                                             |                                                                                                                                                     |                                                                                                                                                                                                                                                                       |                        |   |   |   |   |            |                                   |            |            |             |           |
| 1                  | Expanding Point of Care (POC) testing sites at decentralized sites                                                                                                                                                             | MOHS                                                                       | Myanmar National Policy on Health Laboratories                    | (1) Training of POC testing on HIV, TB and Malaria (30 participants, Away 30, 2 days, 2 times/year)                                                          | National and sub-national                                 | Number of POC sites expansion with POC testing and staff trained                        | Assess and monitor the quality of point of care laboratory test results | N                    |                                             | 6,410,000<br>( 9000* (0 - 30) * 2 + 30 * 4 * 30000 + 30 * 95000 + 2 * 250000 ( True) +0 * 2 * (15000True + 10000True) + 0 * 2500 True ) * 1 + 0 + 0 | 1 Training : Per diem = 9000 Participants = 0 Days = 2, Participants away = 30 Days away = 4 Diem away = 30000 Travel costs participants away= 95000, Tea break = 10000, Lunch = 15000, Stationary= 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0 | 6                      | 6 | 6 | 6 | 6 | 38,460,000 | 38,460,000                        | 38,460,000 | 38,460,000 | 192,300,000 |           |

|                    |                                                                                                                                                                                                                                |                           | (2) Supervisory visits to oversee the point of care testing sites (3 persons for 3 days, 3 times per year) | subnational                                                                                                                                                                                     | Number of POC sites under M & E visit | Tight schedules for M & E visit                                                           | N                        |   | 1,038,000 95000 + 1* 132000 * 3 + 3 * 1* 26000 = 1038000 | 3* 3* 31000 + 3* 3* 3* 3                                                                                                           | 3,114,000                                                                                                                                                                                                                                                                | 3,114,000 | 3,114,000 | 3,114,000 | 15,570,000 |            |           |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------------|--------------------------|---|----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|-----------|------------|------------|-----------|
| EE Indicator       | D.1.4                                                                                                                                                                                                                          | Laboratory Quality System |                                                                                                            |                                                                                                                                                                                                 |                                       |                                                                                           |                          |   |                                                          |                                                                                                                                    |                                                                                                                                                                                                                                                                          |           |           |           |            |            |           |
| EE Scores          | 3                                                                                                                                                                                                                              |                           |                                                                                                            |                                                                                                                                                                                                 |                                       |                                                                                           |                          |   |                                                          |                                                                                                                                    |                                                                                                                                                                                                                                                                          |           |           |           |            |            |           |
| EE recommendations | * Establish and maintain systematic collaboration between human and animal health laboratories, the national laboratory system should be considered one entity                                                                 |                           |                                                                                                            |                                                                                                                                                                                                 |                                       |                                                                                           |                          |   |                                                          |                                                                                                                                    |                                                                                                                                                                                                                                                                          |           |           |           |            |            |           |
|                    | * Endorse and implement the National Strategic Plan for Health Laboratories (currently drafted)                                                                                                                                |                           |                                                                                                            |                                                                                                                                                                                                 |                                       |                                                                                           |                          |   |                                                          |                                                                                                                                    |                                                                                                                                                                                                                                                                          |           |           |           |            |            |           |
|                    | * Developing national testing guidelines for clinicians and veterinarians based on financial and practical factual constraints to maximize the capacity for case diagnosis, indicative surveillance and outbreak contexts      |                           |                                                                                                            |                                                                                                                                                                                                 |                                       |                                                                                           |                          |   |                                                          |                                                                                                                                    |                                                                                                                                                                                                                                                                          |           |           |           |            |            |           |
| Objective          | * Improve simple testing capability in remote areas, including point of care diagnostics and harvesting the flora of new combined lateral flow tests on the market, but under tight quality control by the central laboratory. |                           |                                                                                                            |                                                                                                                                                                                                 |                                       |                                                                                           |                          |   |                                                          |                                                                                                                                    |                                                                                                                                                                                                                                                                          |           |           |           |            |            |           |
|                    | To establish & manage quality management system in all laboratories                                                                                                                                                            |                           |                                                                                                            |                                                                                                                                                                                                 |                                       |                                                                                           |                          |   |                                                          |                                                                                                                                    |                                                                                                                                                                                                                                                                          |           |           |           |            |            |           |
|                    | To strengthen biosafety/biosecurity in laboratory and health system                                                                                                                                                            |                           |                                                                                                            |                                                                                                                                                                                                 |                                       |                                                                                           |                          |   |                                                          |                                                                                                                                    |                                                                                                                                                                                                                                                                          |           |           |           |            |            |           |
| 1                  | Develop (improvement or) <b>National Quality Standard</b> for Laboratories                                                                                                                                                     | NHL- MOHS, LBVD- MOALI    | Myanmar National Policy on Health Laboratories                                                             | (1) Hiring International Consultant for Training on Development of <b>Quality Manual for laboratories</b> that do not have manual Accreditation (1 international Consultant, 5 days)            | National                              | Number of Lab trained with development of own Quality manual for Laboratory Accreditation | International Consultant | N | 6,078,600                                                | 1* 5* (238920 + 660000) + 1* 1584000 = 6078600                                                                                     | Number = 1; No of Days: 5, Per diem = 238920; Daily rate = 660000; Travel = 1584000                                                                                                                                                                                      | 2         | 2         | 2         | 2          | 48,628,800 |           |
|                    |                                                                                                                                                                                                                                |                           |                                                                                                            | (2) Training on Development of <b>Quality Manual for laboratories</b> that do not have manual Accreditation (20 participants from 20 laboratories, Away 20, 3 days trainings, 2 times per year) | National                              | Number of Lab trained with development of own Quality manual for Laboratory Accreditation | International Consultant | N | 7,200,000                                                | (9000* (20 - 20) + 20* 5* 30000 + 20* 95000 + 3* 250000 ( True) + 20* 3* (15000 True + 10000 True) + 20* 2500 True) * 1 + 0 + 0    | 1 Training : Per diem = 9000 Participants = 20 Days = 3, Participants away = 20 Days away = 5 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0 | 2         | 2         | 2         | 2          | 57,600,000 |           |
|                    |                                                                                                                                                                                                                                |                           |                                                                                                            | (3) Hiring of International Consultant for Review and Revise on Quality Manual for NHL (1 international Consultant, 5 days)                                                                     | National                              | NHL Quality Manual reviewed and revised for Laboratory Accreditation                      | International Consultant | Y | 6,078,600                                                | 1* 5* (238920 + 660000) + 1* 1584000 = 6078600                                                                                     | Number = 1; No of Days: 5, Per diem = 238920; Daily rate = 660000; Travel = 1584000                                                                                                                                                                                      | 1         |           |           |            | 6,078,600  |           |
|                    |                                                                                                                                                                                                                                |                           |                                                                                                            | (4) Workshop/Meeting on Review and Revise on Quality Manual for NHL (15 participant, Away 10, 2 days, 1 times)                                                                                  | National                              | NHL Quality Manual reviewed and revised for Laboratory Accreditation                      | International Consultant | Y | 3,527,500                                                | (9000* (15 - 10) + 2* 10* 4* 30000 + 10* 95000 + 2* 250000 ( True) + 15* 2* (15000 True + 10000 True) + 15* 2500 True) * 1 + 0 + 0 | 1 Meeting : Per diem = 9000 Participants = 15 Days = 2, Participants away = 10 Days away = 4 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0  | 1         |           |           |            | 3,527,500  | 3,527,500 |

# NATIONAL ACTION PLAN FOR HEALTH SECURITY (NAPHS)

| No | Summary of Planned Activities at National Level (Strategic actions)                                                                                                                                         | "Responsible authority(s) for Implementation including budget line holder" | Related existing plan/ Programme or on going activities | "Detailed activities (input description for costing)"                                                                                                                                                                                                                                                                  | Where is the action to be implemented (National or sub-national) | "Output indicators (Monitoring and Evaluation)"                        | Comments or Potential challenges                                      | Existing budget (y/n) | Existing budget source (government, donor?) | "Estimated cost (Local currency)"                                                                                                                      |                                                                                                                                                                                                                                                                          | Year of implementation                |   |   |   |                 | Total Cost Year in Local Currency |           |           |           |               |            |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---|---|---|-----------------|-----------------------------------|-----------|-----------|-----------|---------------|------------|
|    |                                                                                                                                                                                                             |                                                                            |                                                         |                                                                                                                                                                                                                                                                                                                        |                                                                  |                                                                        |                                                                       |                       |                                             |                                                                                                                                                        |                                                                                                                                                                                                                                                                          | 2 2 2 2 2 0 0 0 0 1 1 2 2 2 8 9 0 1 2 |   |   |   |                 | 2018                              | 2019      | 2020      | 2021      | 2022          | TOTAL      |
|    |                                                                                                                                                                                                             |                                                                            |                                                         |                                                                                                                                                                                                                                                                                                                        |                                                                  |                                                                        |                                                                       |                       |                                             |                                                                                                                                                        |                                                                                                                                                                                                                                                                          | 2                                     | 2 | 2 | 2 | 2               |                                   |           |           |           |               |            |
|    |                                                                                                                                                                                                             |                                                                            |                                                         | (5) Training for Quality Management System (QMS) (20 participants, Away 15, 2 days, 2 times/year)                                                                                                                                                                                                                      | National & Sub-national                                          | Number of Laboratory staff trained on QMS for Laboratory Accreditation |                                                                       | N                     |                                             | 4,865,000<br>*2 + 15 * 4 * 30000<br>+ 15 * 95000 + 2 * 250000 (True) + 20 * 2 * (15000True + 10000True) + 20 * 25000True ) * 1 + 0 + 0                 | 1 Training : Per diem = 9000 Participants = 20 Days = 2, Participants away = 15 Days away = 4 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0 |                                       |   |   |   | 4,865,000       | 9,730,000                         | 9,730,000 | 9,730,000 | 9,730,000 | 43,785,000    |            |
|    |                                                                                                                                                                                                             |                                                                            |                                                         | (6) Laboratory accreditation for NHL (USD 400,000 for 3 labs)                                                                                                                                                                                                                                                          | National                                                         | Number of Laboratory Accredited                                        |                                                                       | N                     |                                             | 528,000,000                                                                                                                                            |                                                                                                                                                                                                                                                                          |                                       | 3 |   |   | - 1,584,000,000 | -                                 | -         | -         | -         | 1,584,000,000 |            |
| 2  | Develop National Comprehensive Electronic Health Laboratory Information System through Upgrading Laboratory Information Management System for NHL and development of LIMS for other laboratories in country | NHL- MOHS, LBVD- MOALI                                                     | National Health Laboratory LIMS                         | (1) Hiring local experts (software/database) for development of National Comprehensive Electronic Health Laboratory Information System<br>- Upgrading Laboratory Information Management System for NHL and development of LIMS for other laboratories in country - Developing Laboratory Information Management System | NHL                                                              | Expert hired for development                                           | findings of technical experts for software development                | N                     |                                             | 12,600,000<br>1 * 45 * (80000 + 200000) + 1 * 0 = 12600000                                                                                             | Number = 1; No of Days: 45, Per diem = 80000; Daily rate = 200000 : Travel = 0                                                                                                                                                                                           |                                       | 1 |   |   | - 12,600,000    | -                                 | -         | -         | -         | 12,600,000    |            |
|    |                                                                                                                                                                                                             | NHL- MOHS, LBVD- MOALI                                                     | National Health Laboratory LIMS                         | (2) Workshop on development of National Comprehensive Laboratory Information System with local (software/ database) experts (40 participants, 20 Away, 2 days, 2 times)                                                                                                                                                | NHL                                                              | Database established Number of workshop conducted                      | findings of technical experts for software development                | N                     |                                             | 7,260,000<br>(9000* (40 - 20 ) * 2 + 20 * 4 * 30000 + 20 * 95000 + 2 * 250000 (True) + 40 * 2 * (15000True + 10000True) + 40 * 25000True ) * 1 + 0 + 0 | 1 Meeting : Per diem = 9000 Participants = 40 Days = 2, Participants away = 20 Days away = 4 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0  |                                       | 2 |   |   | - 14,520,000    | -                                 | -         | -         | -         | 14,520,000    |            |
|    |                                                                                                                                                                                                             | NHL- MOHS, LBVD- MOALI                                                     | National Health Laboratory LIMS                         | (3) Development of database/ software, IT equipments, internet facilities for Laboratory Information System at NHL (USD 25,000)                                                                                                                                                                                        | NHL                                                              | A Laboratory Information System developed and functioning              | Procurement of specification of IT equipments which are really needed | N                     |                                             | 33,000,000                                                                                                                                             |                                                                                                                                                                                                                                                                          |                                       | 1 |   |   | - 33,000,000    | -                                 | -         | -         | -         | 33,000,000    |            |
|    |                                                                                                                                                                                                             | NHL- MOHS, LBVD- MOALI                                                     | National Health Laboratory LIMS                         | (4) Training of NHL Staff on Laboratory Information System (30 participants, 10 Away, 2 days, 2 times)                                                                                                                                                                                                                 | NHL                                                              | Number of staff trained                                                | retaining of trained staff                                            | N                     |                                             | 4,585,000<br>(9000* (30 - 10 ) * 2 + 10 * 4 * 30000 + 10 * 95000 + 2 * 250000 (True) + 30 * 2 * (15000True + 10000True) + 30 * 25000True ) * 1 + 0 + 0 | 1 Training : Per diem = 9000 Participants = 30 Days = 2, Participants away = 10 Days away = 4 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0 |                                       | 1 | 2 | 2 | 2               | 4,585,000                         | 9,170,000 | 9,170,000 | 9,170,000 | 9,170,000     | 41,265,000 |
|    |                                                                                                                                                                                                             | NHL- MOHS, LBVD- MOALI                                                     | National Health Laboratory LIMS                         | (5) Annual Maintenance and operation cost of Laboratory Information System (USD 1000)                                                                                                                                                                                                                                  | CEU, SCOUS, LBVD, NHL, Animal Lab                                | Function data base                                                     | Inclusion of maintenance cost to MOHS budget                          | N                     |                                             | 1,320,000                                                                                                                                              |                                                                                                                                                                                                                                                                          |                                       | 1 | 1 | 1 | 1               | -                                 | 1,320,000 | 1,320,000 | 1,320,000 | 1,320,000     | 5,280,000  |

## DETECT

General Objective: To do promptly detect threats (due to all hazards) to save lives and ensure proper control measures.

| GOAL                | Real Time Surveillance                                                                                                                       |                                                                            |                                                                     |                                                                                                                                                                                                                                         |                                                                  |                                                                               |                                                     |                          |                                             |                                                                                                                      |                        |    |    |    |                                   | Total Estimated cost (USD)                    |            |            |             |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------|--------------------------|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------|------------------------|----|----|----|-----------------------------------|-----------------------------------------------|------------|------------|-------------|
| TECHNICAL AREA      | Detect 2                                                                                                                                     | Indicator and event based surveillance systems                             |                                                                     |                                                                                                                                                                                                                                         |                                                                  |                                                                               |                                                     |                          |                                             |                                                                                                                      |                        |    |    |    |                                   |                                               |            |            |             |
| JEE Indicator       | D.2.1                                                                                                                                        |                                                                            |                                                                     |                                                                                                                                                                                                                                         |                                                                  |                                                                               |                                                     |                          |                                             |                                                                                                                      |                        |    |    |    |                                   |                                               |            |            |             |
| JEE Scores          | 4                                                                                                                                            |                                                                            |                                                                     |                                                                                                                                                                                                                                         |                                                                  |                                                                               |                                                     |                          |                                             |                                                                                                                      |                        |    |    |    |                                   | 2,575,316.60                                  |            |            |             |
| JEE recommendations | * Indicator based surveillance needs to include capacity building among primary responders and provide education and follow-up of adherence. |                                                                            |                                                                     |                                                                                                                                                                                                                                         |                                                                  |                                                                               |                                                     |                          |                                             |                                                                                                                      |                        |    |    |    |                                   | Total Estimated cost (Local currency) (Kyats) |            |            |             |
| Objective           | To strengthen Indicator- and event based surveillance System                                                                                 |                                                                            |                                                                     |                                                                                                                                                                                                                                         |                                                                  |                                                                               |                                                     |                          |                                             |                                                                                                                      |                        |    |    |    |                                   |                                               |            |            |             |
| No                  | Summary of Planned Activities at National Level (Strategic actions)                                                                          | "Responsible authority(s) for implementation including budget line holder" | Related existing plan/ framework / Programme or on going activities | "Detailed activities (Input description for costing)"                                                                                                                                                                                   | Where is the action to be implemented (National or sub-national) | "Output indicators (Monitoring and Evaluation)"                               | Comments or Potential challenges                    | Existing budget-get(y/n) | Existing budget source (government, donor?) | " Estimated cost (Local currency)"                                                                                   | Year of implementation |    |    |    | Total Cost Year in Local Currency |                                               |            |            | TOTAL       |
|                     |                                                                                                                                              |                                                                            |                                                                     |                                                                                                                                                                                                                                         |                                                                  |                                                                               |                                                     |                          |                                             |                                                                                                                      | 2                      | 2  | 2  | 2  | 2                                 | 2                                             | 2          | 2          | 2           |
|                     |                                                                                                                                              |                                                                            |                                                                     |                                                                                                                                                                                                                                         |                                                                  |                                                                               |                                                     |                          |                                             |                                                                                                                      | 0                      | 0  | 0  | 0  | 0                                 | 0                                             | 0          | 0          | 0           |
|                     |                                                                                                                                              |                                                                            |                                                                     |                                                                                                                                                                                                                                         |                                                                  |                                                                               |                                                     |                          |                                             |                                                                                                                      | 1                      | 1  | 2  | 2  | 2                                 | 2                                             | 2          | 2          | 2           |
|                     |                                                                                                                                              |                                                                            |                                                                     |                                                                                                                                                                                                                                         |                                                                  |                                                                               |                                                     |                          |                                             |                                                                                                                      | 8                      | 9  | 0  | 1  | 2                                 |                                               |            |            |             |
| 1                   | Capacity building on <b>surveillance activities</b> under <b>one health</b> strategic plan including Rapid Response team (RRT) Training      | CEU, LVRD                                                                  | FEIP training and courses                                           | (1) Secretariat Meeting to support One Health Committee every 3 months for overseeing the activities (20 participants, 15 Away, 1 day, 4 times per year)                                                                                | Naypyitaw or yangon                                              | Number of Meetings done Meeting minutes and recommendations                   | Availability of committee member for meetings       | Y                        |                                             | 3,620,000                                                                                                            | 4                      | 4  | 4  | 4  | 4                                 | 14,480,000                                    | 14,480,000 | 14,480,000 | 72,400,000  |
|                     |                                                                                                                                              | CEU                                                                        |                                                                     | (2) Bi-Monthly Meeting on Surveillance review by one health team (5 participants, 3 days, 1 day, 1 times per month)                                                                                                                     | Naypyitaw or yangon                                              | Number of Monthly Meeting conducted and Surveillance review reports developed | Establishment of one health secretariat team        | Y                        |                                             | 710,500 + 3* 3* 30000 + 3* 95000 + 1* 250000 ( False ) +5 * 1* ( 15000True + 10000True ) + 5* 2500True ) * 1 + 0 + 0 | 6                      | 6  | 6  | 6  | 6                                 | 4,263,000                                     | 4,263,000  | 4,263,000  | 21,315,000  |
|                     |                                                                                                                                              |                                                                            |                                                                     | (3) Conduct Joint surveillance and outbreak activities with LVRD and wildlife (10 members, 7 day visit, for estimated of 10-15 outbreaks) <b>2 times of this activity are included in activity Pa.2.1.5 under Zoonotic Disease area</b> | States and Regions                                               | Outbreak investigations and control reports                                   | Well trained staff for joint outbreak investigation | N                        |                                             | 4,226,000 + 10* 7* 31000 + 10* 95000 + 1* 132000* 7 + 7* 1* 26000 = 4226000                                          | 15                     | 15 | 15 | 15 | 15                                | 63,390,000                                    | 63,390,000 | 63,390,000 | 316,950,000 |

# NATIONAL ACTION PLAN FOR HEALTH SECURITY (NAPHS)

| No | Summary of Planned Activities at National Level (Strategic actions) | "Responsible authority(s) for Implementation including budget line holder" | Related existing plan/ Framework or on going activities | "Detailed activities (input description for costing)" | Where is the action to be implemented (National or sub-national) | "Output indicators (Monitoring and Evaluation)" | Comments or Potential challenges | Existing budget (government, donor?) | "Estimated cost (Local currency)" | Total Cost Year in Local Currency |         |         |         |         |       |  |  |  |  |  |  |
|----|---------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------|-------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------|----------------------------------|--------------------------------------|-----------------------------------|-----------------------------------|---------|---------|---------|---------|-------|--|--|--|--|--|--|
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | Year of implementation            |         |         |         |         |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2018                              | 2019    | 2020    | 2021    | 2022    | TOTAL |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 | 2 2 0 0 | 2 2 0 1 | 2 2 0 2 |       |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                         |                                                       |                                                                  |                                                 |                                  |                                      |                                   | 2 0 1 8                           | 2 0 1 9 |         |         |         |       |  |  |  |  |  |  |



|                                                                                   |                                                                                                    |                                                                                   |                                                                                                                                                                                                       |                                  |                                                               |                                                                       |             |                                                                                                                                                       |                                                                                                                                                                                                                                                                                              |   |    |    |    |    |             |             |            |             |             |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------------------------------------|-----------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----|----|----|----|-------------|-------------|------------|-------------|-------------|
|                                                                                   |                                                                                                    |                                                                                   | (2) Meeting on technical working group to review and finalize guidelines and SOPs with technical assistant (20 participants, 5 away, 1 day, 2 times)                                                  | Naypyitaw                        | Guidelines printed                                            | Y                                                                     | Word Bank   | 1,860,000<br>*1 + 5 * 3 * 30000<br>+ 5 * 95000 + 1 * 250000 ( True) + 20<br>* 1 * ( 15000True<br>+ 10000True) +<br>20 * 25000True) * 1<br>+ 0 + 0     | 1 Meeting : Per diem = 9000 Participants<br>= 20 Days = 1, Participants away = 5<br>Days away = 3 Diem away = 30000 Travel<br>costs participants away = 95000, Tea<br>break = 10000, Lunch = 15000, Station-<br>ary = 2500, Venue = 250000, Printing<br>costs = 0, Disseminating costs = 0   | 2 |    |    |    |    | -           | 3,720,000   | -          | 3,720,000   |             |
|                                                                                   |                                                                                                    |                                                                                   | (3) Print and disseminate the guidelines and SOPs (5000 copies each)                                                                                                                                  | States and Regions               | Guidelines printed                                            | Y                                                                     | Word Bank   | 10,000,000<br>5000*                                                                                                                                   |                                                                                                                                                                                                                                                                                              | 1 |    |    |    |    | -           | 10,000,000  | -          | 10,000,000  |             |
|                                                                                   |                                                                                                    |                                                                                   | (4) Central Training to SDU teams and TOT to 2 staff at every township focal point (50 participants, 40 Away, 3 days, 15 times)<br>(40 participants from central and 660 participants from townships) | States and Regions: Townships    | Number of staff who got training                              | Y                                                                     | Donor (WHO) | 14,695,000<br>*3 + 40 * 5 * 30000<br>+ 40 * 95000 + 3 * 250000 ( True) + 50<br>* 3 * ( 15000True<br>+ 10000True) +<br>50 * 25000True ) * 1<br>+ 0 + 0 | 1 Training : Per diem = 9000 Participants<br>= 40 Days = 3, Participants away = 40<br>Days away = 5 Diem away = 30000 Travel<br>costs participants away = 95000, Tea<br>break = 10000, Lunch = 15000, Station-<br>ary = 2500, Venue = 250000, Printing<br>costs = 0, Disseminating costs = 0 | 3 | 4  | 4  | 4  |    | -           | 44,885,000  | 58,780,000 | 58,780,000  | 220,425,000 |
| HEE Indicator                                                                     | D.2.2                                                                                              | Interoperable, interconnected, electronic real-time reporting system              |                                                                                                                                                                                                       |                                  |                                                               |                                                                       |             |                                                                                                                                                       |                                                                                                                                                                                                                                                                                              |   |    |    |    |    |             |             |            |             |             |
| HEE Scores                                                                        | 2                                                                                                  |                                                                                   |                                                                                                                                                                                                       |                                  |                                                               |                                                                       |             |                                                                                                                                                       |                                                                                                                                                                                                                                                                                              |   |    |    |    |    |             |             |            |             |             |
| HEE recommendations                                                               | * A one-health approach encompassing human, animal and wildlife surveillance should be considered. |                                                                                   |                                                                                                                                                                                                       |                                  |                                                               |                                                                       |             |                                                                                                                                                       |                                                                                                                                                                                                                                                                                              |   |    |    |    |    |             |             |            |             |             |
| Objective                                                                         | To develop real-time reporting system                                                              |                                                                                   |                                                                                                                                                                                                       |                                  |                                                               |                                                                       |             |                                                                                                                                                       |                                                                                                                                                                                                                                                                                              |   |    |    |    |    |             |             |            |             |             |
| 1 Development of data-base and data sharing mechanism among MOHS, MOAI and others | CEU                                                                                                | Data Assistant for AFP, ILI/SARI, VPD using Information for action (IFA) software | (1) Workshop on development of Database and data sharing Mechanism with experts for database software (40 participants, 30 Away, 2 days, 2 times)                                                     | Naypyitaw                        | Number of workshop conducted Database and Mechanism developed | findings of technical experts                                         | N           | 9,230,000<br>*2 + 30 * 4 * 30000<br>+ 30 * 95000 + 2 * 250000 ( True) + 40<br>* 2 * ( 15000True<br>+ 10000True) +<br>40 * 25000True ) * 1<br>+ 0 + 0  | 1 Workshop - Per diem = 9000 Participants = 40 Days = 2, Participants away = 30 Days away = 4 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0                     | 2 |    |    |    |    | 18,460,000  | -           | -          | 18,460,000  |             |
|                                                                                   |                                                                                                    |                                                                                   | (2) Hiring International Consultant for development of database and training Modules (1 International Consultant, 20 days)                                                                            | Naypyitaw                        | Number of workshop conducted Database and Mechanism developed | findings of technical experts                                         | N           | 19,562,400<br>1 * 20 * (238920 + 660000) +<br>1 * 1584000 =<br>19562400                                                                               | Number = 1; No of Days: 20, Per diem = 238920 ; Daily rate = 660000 ; Travel = 1584000                                                                                                                                                                                                       | 1 |    |    |    |    | 19,562,400  | -           | -          | 19,562,400  |             |
|                                                                                   |                                                                                                    |                                                                                   | (3) Procurement and installation of IT equipments, internet facilities for database and set up data base at CEU (2), SDU, LBVD, NHL and LBVD lab (20,000 USD per unit, total 22 units)                | CEU, SDUx, LBVD, NHL, Animal Lab | Establishment of database and functions                       | Procurement of specification of IT equipments which are really needed | N           | 26,400,000<br>20000*1320                                                                                                                              |                                                                                                                                                                                                                                                                                              | 6 | 6  | 5  | 5  |    | 158,400,000 | 132,000,000 | -          | 580,800,000 |             |
|                                                                                   |                                                                                                    |                                                                                   | (4) Recruitment of staff for operation of database (1 staff per unit, 120,000 MMK per month)<br><b>Same staff hiring in activity line D.2.3.1.2 for data management</b>                               | CEU, SDUx, LBVD, NHL, Animal Lab | Number of staff recruited and trained                         | retaining of trained staff                                            | Y           | 1,440,000<br>( 9000* (25 - 20 ) * 5<br>+ 20 * 7 * 30000 + 5<br>* 100000 ( True) + 25<br>* 5 * ( 10000True<br>+ 0True ) + 25 *<br>20000True ) * 1      | 1 Admin - 120000 ; 12 Months                                                                                                                                                                                                                                                                 | 6 | 12 | 17 | 22 | 22 |             |             |            | -           |             |



| No | Summary of Planned Activities at National Level (Strategic actions) | "Responsible authority(s) for implementation including budget line holder" | Related existing plan/ framework/ Programme or on going activities | "Detailed activities (input description for costing)"                                                                               | Where is the action to be implemented (National or sub-national) | "Output Indicators (Monitoring and Evaluation)" | Comments or Potential challenges | Existing budget (get(y/n)) | Existing budget source (government, donor?) | "Estimated cost (Local currency)"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Year of implementation | Total Cost Year in Local Currency |  |  |  |  |
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|    |                                                                     |                                                                            |                                                                    | (5) Training of staff for database and its operation (15 participants, 10 Away, 5 days, 1 time/year) (about 2 staff from each unit) | CEU, SDCUs, LBVD, NHL, Animal Lab                                | Number of staff trained                         | retaining of trained staff       | N                          |                                             | 6,437,500<br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br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|                        |                                   |  |  |  |  |

| JEE Indicator       | D.2.4                                                                                                                                       | Syndromic surveillance systems |                |                                                                                                                                                                                                                                                                                  |           |                 |                                                                         |   |            |                                                                                                                                              |                                                                                                                                                                                                                                                                                               |    |   |  |  |  |  |  |  |             |             |            |             |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------|-------------------------------------------------------------------------|---|------------|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|--|--|--|--|--|--|-------------|-------------|------------|-------------|
| JEE Scores          | 3                                                                                                                                           |                                |                |                                                                                                                                                                                                                                                                                  |           |                 |                                                                         |   |            |                                                                                                                                              |                                                                                                                                                                                                                                                                                               |    |   |  |  |  |  |  |  |             |             |            |             |
| JEE recommendations | * Review CD laws for IHR, review surveillance systems (indicative and event triggered), including list of notifiable diseases and syndromes |                                |                |                                                                                                                                                                                                                                                                                  |           |                 |                                                                         |   |            |                                                                                                                                              |                                                                                                                                                                                                                                                                                               |    |   |  |  |  |  |  |  |             |             |            |             |
| Objective           | To strengthen Indicator- and event based surveillance System                                                                                |                                |                |                                                                                                                                                                                                                                                                                  |           |                 |                                                                         |   |            |                                                                                                                                              |                                                                                                                                                                                                                                                                                               |    |   |  |  |  |  |  |  |             |             |            |             |
| 1                   | Approval of CD laws dissemination to stakeholders and public                                                                                | CEU                            | CD Law drafted | (1) Meetings with responsible persons from Parliament, Union Attorney General Office and other stakeholders for CD laws<br><br>(20 participants, 1 day, 5 Away, 2 times)<br><b>Costing is included in Activity P.1.2.1.1 under National legislation area as similar activity</b> | Naypyitaw | CD law approved | Commitment from government and stakeholders to implementation of CD law | N | 1,370,000  | (9000* (20- 5) *1+ 5* 3* 30000 + 5* 95000 + 1* 250000 ( False) +20 *1* (15000)False + 10000True) + 20 * 2500True) *1 + 0 + 0                 | 1 Meeting : Per diem = 9000 Participants = 20 Days = 1, Participants away = 5 Days away = 3 Dien away = 30000 Travel costs participants away = 95000, Tea break = 10000, Stationary = 2500, Print Dis = 60000, Printing costs = 0, Disseminating costs = 0                                    | 2  | 2 |  |  |  |  |  |  |             |             |            |             |
|                     |                                                                                                                                             |                                |                | (2) Disseminate Workshop CD laws to stakeholders, private sectors and public at Central level (printing of CD Laws about 10,000 copies and Pamphlet 50,000 copies (70 participant, 34 away, 1 days 1 time)                                                                       | Naypyitaw | print CD laws   | Private sectors involvement in CD laws implementation                   | N | 23,789,000 | (9000* (70- 34 ) *1+ 34 * 3* 30000 + 34 * 95000 + 1* 250000 ( True) +70 *1* (15000True + 10000True) + 70 * 2500True) * 1+ 13500000 + 1500000 | 1 Meeting : Per diem = 9000 Participants = 70 Days = 1, Participants away = 34 Days away = 3 Dien away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 13500000, Disseminating costs = 1500000          | 1  |   |  |  |  |  |  |  | 23,789,000  | -           | 23,789,000 |             |
|                     |                                                                                                                                             |                                |                | (3) Disseminate Workshop CD laws to stakeholders, private sectors and public at States at Regions (printing of CD Laws about 10,000 copies and Pappmihlet 50,000 copies (50 participant, 10 away, 1 days 1 time)                                                                 | Naypyitaw | print CD laws   | Private sectors involvement in CD laws implementation                   | N | 18,835,000 | (9000* (50- 10 ) *1+ 10 * 3* 30000 + 10 * 95000 + 1* 250000 ( True) +50 *1* (15000True + 10000True) + 50 * 2500True ) *1 + 0 + 0             | 1 Meeting : Per diem = 9000 Participants = 50 Days = 1, Participants away = 10 Days away = 3 Dien away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Print Dis = 15000000, Printing costs = 0, Disseminating costs = 0 | 10 | 7 |  |  |  |  |  |  | 188,350,000 | 131,845,000 | -          | 320,195,000 |
|                     |                                                                                                                                             |                                |                | (4) Hiring of National Consultant to develop bylaw for CD (1 National consultant, 80 days)                                                                                                                                                                                       | Naypyitaw | bylaw developed | Commitment from stakeholders                                            | N | 22,400,000 | 1* 80 * (80000 + 200000) + 1* 0 = 22400000                                                                                                   | Number = 1 ; No of Days: 80, Per diem = 80000 ; Daily rate = 200000 : Travel = 0                                                                                                                                                                                                              | 1  |   |  |  |  |  |  |  | 22,400,000  | -           | 22,400,000 |             |
|                     |                                                                                                                                             |                                |                | (5) Dissemination Meeting/ Workshop on by Law and disseminate -printing by law for CD about 10,000 copies (30 participants, 20 Away, 1 day, 3 times)                                                                                                                             | Naypyitaw | bylaw developed | Commitment from stakeholders                                            | N | 19,865,000 | (9000* (30- 20 ) *1+ 20 * 3* 30000 + 20 * 95000 + 1* 250000 ( True) +30 *1* (15000True + 10000True) + 30 * 2500True) *1 + 0 + 0              | 1 Meeting : Per diem = 9000 Participants = 30 Days = 1, Participants away = 20 Days away = 3 Dien away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Print Dis = 15000000, Printing costs = 0, Disseminating costs = 0 | 3  |   |  |  |  |  |  |  | 59,595,000  | -           | 59,595,000 |             |

[illegible]

# DETECT

General Objective: To do promptly detect threats (due to all hazards) to save lives and ensure proper control measures.

| GOAL                | Reporting                                                                                                                                                                                                                                                                                                 |                                                                            |                                                                                                                |                                                                                                                                                                                                                       |                                                                  |                                                         |                                                                     |                      |                                             |                                                                                                                                  |                        |            |            |            |            | Total Estimated cost (USD)                    |            |  |  |       |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------------------|----------------------|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|------------------------|------------|------------|------------|------------|-----------------------------------------------|------------|--|--|-------|
| TECHNICAL AREA      | Detect 3                                                                                                                                                                                                                                                                                                  | System for efficient reporting to WHO, FAO and OIE                         |                                                                                                                |                                                                                                                                                                                                                       |                                                                  |                                                         |                                                                     |                      |                                             |                                                                                                                                  |                        |            |            |            |            |                                               |            |  |  |       |
| JEE Indicator       | D.3.1                                                                                                                                                                                                                                                                                                     |                                                                            |                                                                                                                |                                                                                                                                                                                                                       |                                                                  |                                                         |                                                                     |                      |                                             |                                                                                                                                  |                        |            |            |            |            |                                               |            |  |  |       |
| JEE Scores          | 3                                                                                                                                                                                                                                                                                                         |                                                                            |                                                                                                                |                                                                                                                                                                                                                       |                                                                  |                                                         |                                                                     |                      |                                             |                                                                                                                                  |                        |            |            |            |            | 181,497.88                                    |            |  |  |       |
| JEE recommendations | * Improve workforce capability and awareness, including IHR responsibilities, risk assessment and reporting of a potential PHEIC, for human and animal health sectors (at national and subnational levels)<br>* Improve Information Communications technology (ICT) for reporting and information sharing |                                                                            |                                                                                                                |                                                                                                                                                                                                                       |                                                                  |                                                         |                                                                     |                      |                                             |                                                                                                                                  |                        |            |            |            |            | Total Estimated cost (Local currency) (Kyats) |            |  |  |       |
| Objective           | To strengthen communication Mechanism for information sharing in and out Country                                                                                                                                                                                                                          |                                                                            |                                                                                                                |                                                                                                                                                                                                                       |                                                                  |                                                         |                                                                     |                      |                                             |                                                                                                                                  |                        |            |            |            |            | 283,136,700                                   |            |  |  |       |
| No                  | Summary of Planned Activities at National Level (Strategic actions)                                                                                                                                                                                                                                       | "Responsible authority(s) for Implementation including budget line holder" | Related existing plan/framework/ Programme or on going activities                                              | "Detailed activities (input description for costing)"                                                                                                                                                                 | Where is the action to be implemented (National or sub-national) | "Output indicators (Monitor-Evaluation)"                | Comments or Potential challenges                                    | Existing budget(y/n) | Existing budget source (government, donor?) | "Estimated cost (Local currency)"                                                                                                | Year of implementation |            |            |            |            | Total Cost Year in Local Currency             |            |  |  | TOTAL |
|                     |                                                                                                                                                                                                                                                                                                           |                                                                            |                                                                                                                |                                                                                                                                                                                                                       |                                                                  |                                                         |                                                                     |                      |                                             |                                                                                                                                  | 2018                   | 2019       | 2020       | 2021       | 2022       |                                               |            |  |  |       |
| 1                   | Development of Capacity for relevant person through training on reporting, risk assessment, IHR responsibilities in animal and human health sectors at Central, State and Region                                                                                                                          | MOHS/MOALI                                                                 | Existing activities on preparedness, surveillance and Emergency response Process among sector and Stakeholders | (1) Annual Joint Training on reporting, risk assessment, IHR responsibilities in animal and human health sectors at Central, State and Region (50 participants, 40 Away, 2days, 1 times per year)                     | Naypyitaw/ Subnational (State/ Region)                           | number of training conducted<br>Number of Staff Trained | Involvement of all stakeholders                                     | N                    |                                             | (9000* (50- 40) *2 + 40 * 4* 30000 + 40 * 95000 + 2* 250000 ( True) +50 * 2* (15000True + 10000True) + 50 * 2500True) *1 + 0 + 0 | 11,905,000             | 11,905,000 | 11,905,000 | 11,905,000 | 11,905,000 | 11,905,000                                    | 59,525,000 |  |  |       |
| 2                   | Development of Training Manual on IHR and Health security                                                                                                                                                                                                                                                 | MOHS/MOALI                                                                 | Existing activities on preparedness, surveillance and Emergency response Process among sector and Stakeholders | (2) Hiring International Consultant to Develop Training manual (Modules) for IHR and health security by CEU with technical supports from WHO, USDOC (1 International consultant, 60 days- 3 months)                   | Naypyitaw                                                        | Manual developed and published for trainings            | Experts with technical capacity with understanding of local context | N                    |                                             | 1 * 60 * (238920 + 660000) + 1 * 1584000 = 55519200                                                                              | 55,519,200             | -          | -          | -          | -          | 55,519,200                                    | 55,519,200 |  |  |       |
|                     |                                                                                                                                                                                                                                                                                                           | MOHS/MOALI                                                                 |                                                                                                                | (3) Disseminate Workshop/ Meeting on Training manual for IHR and health security to stakeholders from Central, States and Regions (60 participants, 50 Away, 1 days, 1 times, 5,000 copies printing and distribution) | Naypyitaw and SR                                                 | Workshop done and Manual published                      | Involvement of all stakeholders in training program                 | N                    |                                             | (9000* (60- 50) *1 + 50 * 3* 30000 + 50 * 95000 + 1* 250000 ( True) +60 * 1* (15000True + 10000True) + 60 * 2500True) *1 + 0 + 0 | 21,240,000             | -          | -          | -          | -          | 21,240,000                                    | 21,240,000 |  |  |       |

| No | Summary of Planned Activities at National Level (Strategic actions)                     | "Responsible authority(s) for Implementation including budget line holder" | Related existing plan/ framework or on going activities | "Detailed activities (input description for costing)"                                                                                 | Where action to be implemented (National or sub-national) | "Output indicators (Monitoring and Evaluation)" | Comments or Potential challenges                     | Existing budget-ty(n) | Existing budget (government, donor?) | "Estimated cost (Local currency)"                                                                                                        | Year of implementation                                                                                                                           |   |   |   |   |   |      |   |           |   |   |   | Total Cost Year in Local Currency |   |   |   |   |      |   |      |      |      |      |      |  |  |  |      |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|    |                                                                                         |                                                                            |                                                         |                                                                                                                                       |                                                           |                                                 |                                                      |                       |                                      |                                                                                                                                          | 2017                                                                                                                                             |   |   |   |   |   | 2018 |   |           |   |   |   | 2019                              |   |   |   |   | 2020 |   |      |      |      | 2021 |      |  |  |  | 2022 |  |  |  |  | TOTAL |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|    |                                                                                         |                                                                            |                                                         |                                                                                                                                       |                                                           |                                                 |                                                      |                       |                                      |                                                                                                                                          | 2                                                                                                                                                | 2 | 2 | 2 | 2 | 2 | 0    | 0 | 0         | 0 | 1 | 1 | 2                                 | 2 | 8 | 9 | 0 | 1    | 2 | 2018 | 2019 | 2020 | 2021 | 2022 |  |  |  |      |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3  | Establish <b>Electronic single information platform</b> among MOHS, MOAL, WHO, FAO, OIE | MOHS/MOALI                                                                 | Exsting surveillance and Reporting System and Practices | (1) Consultative workshop on development of <b>Database</b> with experts and stakeholders (40 participants, 30 Away, 2 days, 1 times) | Naypyitaw                                                 | Workshop conducted                              | involvement and technical inputs of all stakeholders | N                     |                                      | 9,230,000<br>*2 + 30 * 4 * 30000<br>+ 30 * 95000 + 2 * 250000 ( True) + 40 * 2 * (15000True + 10000True) + 40 * 2500True) * 1<br>+ 0 + 0 | (9000* (40 - 30 )<br>*2 + 30 * 4 * 30000<br>+ 30 * 95000 + 2 * 250000 ( True) + 40 * 2 * (15000True + 10000True) + 40 * 2500True) * 1<br>+ 0 + 0 | 1 |   |   |   |   |      |   | 9,230,000 |   |   |   |                                   |   |   |   |   |      |   |      |      |      |      |      |  |  |  |      |  |  |  |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| JEE Indicator                                                                                                                                                                                                                         | D.3.2                                                                                                                                                             | Reporting network and protocols in country |                                                           |           |                                                                                                                                                                                                                                           |                                                                                                         |                                                                                  |   |            |                                                                                                                                        |                                                                                                                                                                                                                                                                           |   |   |   |   |  |            |           |           |           |            |            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-----------------------------------------------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|---|------------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|---|--|------------|-----------|-----------|-----------|------------|------------|
| JEE Scores                                                                                                                                                                                                                            | 2                                                                                                                                                                 |                                            |                                                           |           |                                                                                                                                                                                                                                           |                                                                                                         |                                                                                  |   |            |                                                                                                                                        |                                                                                                                                                                                                                                                                           |   |   |   |   |  |            |           |           |           |            |            |
| * Establish written processes and protocols for identifying and reporting potential PHEIC up to central level MOHS / National Foca Point.<br>* Ensure regular, systematic information sharing between human and animal health sectors |                                                                                                                                                                   |                                            |                                                           |           |                                                                                                                                                                                                                                           |                                                                                                         |                                                                                  |   |            |                                                                                                                                        |                                                                                                                                                                                                                                                                           |   |   |   |   |  |            |           |           |           |            |            |
| Objective                                                                                                                                                                                                                             | To Strengthen information sharing and practices in Country                                                                                                        |                                            |                                                           |           |                                                                                                                                                                                                                                           |                                                                                                         |                                                                                  |   |            |                                                                                                                                        |                                                                                                                                                                                                                                                                           |   |   |   |   |  |            |           |           |           |            |            |
| 1                                                                                                                                                                                                                                     | Develop <b>Protocols and SOPs</b> for regular Public Health Emergency International Concerns<br><b>PHEIC Reporting Mechanism</b> between animal and human sectors | MOHS, MOALI                                | Existing Reporting Process among sector and Stake-holders | Naypyitaw | (1) Hiring of National Consultant to <b>Develop Protocols and SOPs for PHEIC Reporting Mechanism</b> by focal points from CEU, LBVD, WHO and OIE with supports from technical experts (1 National Expert/Consultant, 40 days or 2 months) | SOPs and Protocol developed                                                                             | Involvement of stakeholders in development of SOPs<br><br>Finding Expert Persons | N | 11,200,000 | 1 * 40 * (80000 + 200000) + 1 * 0 = 11200000                                                                                           | Number = 1; No of Days : 40, Per diem = 80000 ; Daily rate = 200000 ; Travel = 0                                                                                                                                                                                          | 1 |   |   |   |  | 11,200,000 | -         | -         | -         | -          | 11,200,000 |
|                                                                                                                                                                                                                                       |                                                                                                                                                                   |                                            |                                                           | Naypyitaw | (2) <b>Dissemination and Awareness</b> workshop on <b>SOPs and protocol of Reporting Mechanism</b> to stakeholders from Central, State and Region level (60 participants, Away SO, 2 days, 2 times)                                       | dissemination of SOPs and protocol                                                                      | Difficulties in actual implementation of protocol among stakeholders             | N | 14,580,000 | (9000* (60 - 50 ) *2 + 50 * 4 * 30000 + 50 * 95000 + 2 * 250000 ( True) +60 * 2 * (15000True + 10000True) + 60 * 2500True) * 1 + 0 + 0 | 1 Workshop : Per diem = 9000 Participants = 60 Days = 2, Participants away = 50 Days away = 4 Diem away = 30000, Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0 | 1 | 1 |   |   |  | 14,580,000 | -         | -         | -         | 29,160,000 |            |
|                                                                                                                                                                                                                                       |                                                                                                                                                                   |                                            |                                                           | Naypyitaw | (3) Printing and Distribution of SOPs and protocols to all stakeholders (5000 copies)                                                                                                                                                     | Number of copies of SOPs and SOPs and protocols distributed to all stakeholders printed and distributed | Involvement and Commitments of stakeholders                                      | N | 10,000,000 |                                                                                                                                        |                                                                                                                                                                                                                                                                           | 1 |   |   |   |  | 10,000,000 | -         | -         | -         | -          | 10,000,000 |
| 2                                                                                                                                                                                                                                     | <b>Simulation exercises</b> of test the protocols and SOPs Reporting Mechanism to be active                                                                       | MOHS, MOALI                                | Existing Reporting Process among sector and Stake-holders | Naypyitaw | (1) Conduct <b>Simulation Exercises to test</b> the protocols and SOPs by every six months (30 participants, 20 Away, 1 day, 2 times per year)                                                                                            | number of simulation exercises conducted                                                                | Availability and interest of all sectors in simulation exercises                 | N | 4,865,000  | (9000* (30 - 20 ) *1 + 20 * 3 * 30000 + 20 * 95000 + 1 * 250000 (True) +30 * 1 * (15000True + 10000True) + 30 * 2500True) * 1 + 0 + 0  | 1 Workshop : Per diem = 9000 Participants = 30 Days = 1, Participants away = 20 Days away = 3 Diem away = 30000, Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0 | 2 | 2 | 2 | 2 |  | 9,730,000  | 9,730,000 | 9,730,000 | 9,730,000 | 48,650,000 |            |

**General Objective: To do promptly detect threats (due to all hazards) to save lives and ensure proper control measures.**

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## NATIONAL ACTION PLAN FOR HEALTH SECURITY (NAPHS)

[illegible]

| D.4.2                                              |                                                                                                            | Field Epidemiology Training Program or other applied epidemiology training program in place                                                                                                       |                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                  |                                                                                                       |                                                                                                                    |                       |                                                            |                                                                                                                                         |                                            |           |            |            |           |            |                                   |  |  |  |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-----------|------------|------------|-----------|------------|-----------------------------------|--|--|--|
| JEE Scores                                         |                                                                                                            | 3                                                                                                                                                                                                 |                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                  |                                                                                                       |                                                                                                                    |                       |                                                            |                                                                                                                                         |                                            |           |            |            |           |            |                                   |  |  |  |
| JEE recommendations                                |                                                                                                            | * To train more epidemiologists, biostatisticians and social scientists abroad or set up in-country training for those specialties which facilitate further strengthening of IHR core capacities. |                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                  |                                                                                                       |                                                                                                                    |                       |                                                            |                                                                                                                                         |                                            |           |            |            |           |            |                                   |  |  |  |
| To strengthen the capacity for workforce developed |                                                                                                            |                                                                                                                                                                                                   |                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                  |                                                                                                       |                                                                                                                    |                       |                                                            |                                                                                                                                         |                                            |           |            |            |           |            |                                   |  |  |  |
| No                                                 | Summary of Planned Activities at National Level (Strategic actions)                                        | "Responsible authority for Implementation including budget line holder"                                                                                                                           | Related existing plan/Programme or ongoing activities                                                                                             | "Detailed activities (Input description for costing)"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Where is the action to be implemented (National or sub-national) | "Output indicators (Monitoring and Evaluation)"                                                       | Comments or Potential challenges                                                                                   | Existing budget (y/n) | Existing budget source (government, donor?)                | "Estimated cost (Local currency)"                                                                                                       | Year of implementation                     |           |            |            |           |            | Total Cost Year in Local Currency |  |  |  |
|                                                    |                                                                                                            |                                                                                                                                                                                                   |                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                  |                                                                                                       |                                                                                                                    |                       |                                                            |                                                                                                                                         | 2018                                       | 2019      | 2020       | 2021       | 2022      | TOTAL      |                                   |  |  |  |
| 1                                                  | Finalize and approve the draft curriculum for national FETP basic course and intermediate course (9-month) | CEU, DPH, Livestock Breeding and Veterinary Department, Medical and allied Universities, other related Ministries                                                                                 | Draft curriculum for FETP basic and intermediate courses                                                                                          | (1) Workshop on finalization of FETP basic and intermediate course (30 participants, 20 Away, 2-day, 2 times per year)<br><br>Review and revise the contents of curriculum to be comprehensive and in line with international courses,<br><br>(2) Review and revise teaching methodology and assessment methods; need to be tailored with objectives of the courses,<br><br>(3) Participants inclusiveness (Medical doctors, BHS, Veterinarians, other members who worked for RRT),<br>(4) Certificate (Career Pathway),<br>(5) Appoint focal person or permanent staff for FETP training in CEU,<br>(6) Invite visiting lecturers from related universities to FETP Training Program (30 participants, 2-day workshop, 2 times per year) | Sub-national                                                     | Training curriculum for FETP Basic developed, 9-month FETP-Intermediate training curriculum developed | (1) Inter and intra-departmental collaboration, (2) Dual responsibilities of trainers and mentors will be a burden | Y                     | Government, President's Malawi Initiative, WHO, World Bank | (9000* (30 - 20) * 2 + 20 * 4 * 30000 + 20 * 95000 + 2 * 250000 (True) + 30 * 2 * (15000True + 10000True) + 30 * 25000True) * 1 + 0 + 0 | 1 2 2<br>0 0 0 0<br>1 1 2 2 2<br>8 9 0 1 2 | 6,555,000 | 13,110,000 | 13,110,000 | -         | -          | 32,775,000                        |  |  |  |
| 2                                                  | Mentorship program for FETP                                                                                | CEU, DoPH, Medical and allied Universities, (LBVD)                                                                                                                                                | To utilize graduates from international FETP programs and MOHS/LBVD officials with strong background of field epidemiology experiences as Mentors | (1) Provide Mentorship facilitation workshops to equip necessary skills to trained FETP graduates and potential Mentors to become competent mentors<br><br>(15 potential mentors, 8 Away, 3 days workshop, 1 times per year)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | National                                                         | Number of competent mentors, Limited Mentor-mentee ratio                                              | Restrictive number of competent mentors, Limited budgets for the training                                          | Y                     | President's Malawi Initiative, WHO, World Bank, ADB        | (9000* (15 - 8) * 3 + 8 * 5 * 30000 + 8 * 95000 + 3 * 250000 (True) + 15 * 3 * (15000True + 10000True) + 15 * 25000True) * 1 + 0 + 0    | 1 1 1<br>0 0 0 0<br>1 1 2 2 2<br>8 9 0 1 2 | 4,061,500 | 4,061,500  | 4,061,500  | 4,061,500 | 20,307,500 |                                   |  |  |  |

# NATIONAL ACTION PLAN FOR HEALTH SECURITY (NAPHS)

|   |                                                                                                                                                                               |  |  |                                                                                                                                                                                                                           |                           |                                                                                                |                                                                                                                                                                |   |                                                      |             |  |  |  |  |                                                   |   |   |   |   |   |             |             |             |             |             |
|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------------------------------------------------------|-------------|--|--|--|--|---------------------------------------------------|---|---|---|---|---|-------------|-------------|-------------|-------------|-------------|
| 3 | Train more field epidemiologists to strengthen health security interventions and IHR related activities through FETP courses and other applied epidemiology training programs |  |  | (1) Train basic level field epidemiologists by providing FETP basic course (Estimated cost for one-week workshop with 35 participants: 7,600 USD, 2 workshops for basic course, one course per year)                      | National and Sub national | Number of persons trained by FETP basic course                                                 |                                                                                                                                                                | Y | President's Malania Initiative, WHO, World Bank, ADB | 20,064,000  |  |  |  |  | one-week workshop with 35 participants: 7,600 USD | 1 | 1 | 1 | 1 | 1 | 20,064,000  | 20,064,000  | 20,064,000  | 20,064,000  | 100,320,000 |
|   |                                                                                                                                                                               |  |  | (2) Train mid level field epidemiologists by providing FETP Intermediate 9 month course (20 participants per year)                                                                                                        | National and Sub national | Number of persons trained by FETP intermediate course                                          | Total cost of a 9-month course includes costs for 5 workshops, field projects, supervisory visits, operation costs, computer, IT, facilities, references, etc. | Y | President's Malania Initiative, WHO, World Bank, ADB | 198,000,000 |  |  |  |  |                                                   |   | 1 | 1 | 1 | 1 | 198,000,000 | 198,000,000 | 198,000,000 | 198,000,000 | 990,000,000 |
|   |                                                                                                                                                                               |  |  | (3) Train expert level field epidemiologists by providing FETP advanced 2-year program (2 international FETP fellows per year, 75,000 USD for one fellow for a 2-year program)                                            | National and Sub national | Number of persons trained by FETP advanced course                                              | Currently, PMI is supporting sponsorship for 2 fellows annually to join International 2-yr FETP-Advanced program in Thailand.                                  | Y | President's Malania Initiative                       | 99,000,000  |  |  |  |  | 75,000 USD for one fellow for a 2-year program    |   | 2 | 2 | 2 | 1 | 198,000,000 | 99,000,000  | 198,000,000 | 99,000,000  | 792,000,000 |
|   |                                                                                                                                                                               |  |  | (4) Provide FETP basic equivalent short courses or other applied epidemiology trainings for frontline public health workforce (Estimated cost: 6,300 USD per workshop (35 participants for 1 week), 3 workshops per year) | National and Sub national | Number of persons trained by FETP basic equivalent or other applied epidemiology short courses | Rapid Response Training and others                                                                                                                             | Y | WHO, ADB                                             | 8,316,000   |  |  |  |  |                                                   |   | 2 | 2 | 2 | 2 | 16,632,000  | 16,632,000  | 16,632,000  | 16,632,000  | 83,160,000  |
|   |                                                                                                                                                                               |  |  | (5) Participate in other international FETP equivalent training programs (such as FETP India, FETP China, etc.)                                                                                                           | National and Sub national | Number of persons trained by other international FETP equivalent training programs             | To double check the cost with WHO                                                                                                                              | Y | WHO                                                  | 6,600,000   |  |  |  |  |                                                   |   | 2 | 2 | 2 | 2 | 13,200,000  | 13,200,000  | 13,200,000  | 13,200,000  | 66,000,000  |

| EE Indicator                                                                                                                                                      |                                                                                                                                                         | D.4.3                                                                      | Workforce strategy                                                                                                    |                                                                                                                                                                        |                                                                  |                                                    |                                                          |                       |                                             |                                   |                                                                                                                                                     |                        |                                   |            |      |      |      |            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------|----------------------------------------------------------|-----------------------|---------------------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------------------|------------|------|------|------|------------|
| EE Scores                                                                                                                                                         |                                                                                                                                                         | 3                                                                          |                                                                                                                       |                                                                                                                                                                        |                                                                  |                                                    |                                                          |                       |                                             |                                   |                                                                                                                                                     |                        |                                   |            |      |      |      |            |
| * To develop a HR strategic plan for next 5 years after evaluating existing HR strategic plan. This includes development of HR data base with tracking facilities |                                                                                                                                                         |                                                                            |                                                                                                                       |                                                                                                                                                                        |                                                                  |                                                    |                                                          |                       |                                             |                                   |                                                                                                                                                     |                        |                                   |            |      |      |      |            |
| * To increase health personnel stock level in line with SDG targets                                                                                               |                                                                                                                                                         |                                                                            |                                                                                                                       |                                                                                                                                                                        |                                                                  |                                                    |                                                          |                       |                                             |                                   |                                                                                                                                                     |                        |                                   |            |      |      |      |            |
| To increase availability of HR interm of quantity and quality                                                                                                     |                                                                                                                                                         |                                                                            |                                                                                                                       |                                                                                                                                                                        |                                                                  |                                                    |                                                          |                       |                                             |                                   |                                                                                                                                                     |                        |                                   |            |      |      |      |            |
| Objective                                                                                                                                                         |                                                                                                                                                         |                                                                            |                                                                                                                       |                                                                                                                                                                        |                                                                  |                                                    |                                                          |                       |                                             |                                   |                                                                                                                                                     |                        |                                   |            |      |      |      |            |
| No                                                                                                                                                                | Summary of Planned Activities at National Level (Strategic actions)                                                                                     | "Responsible authority(s) for implementation including budget line holder" | Related existing plan/ framework or on going activities                                                               | "Detailed activities (input description for costing)"                                                                                                                  | Where is the action to be implemented (National or sub-national) | "Output Indicators (Monitoring and Evaluation)"    | Comments or Potential challenges                         | Existing budget (y/n) | Existing budget source (government, donor?) | "Estimated cost (Local currency)" |                                                                                                                                                     | Year of implementation | Total Cost Year in Local Currency |            |      |      |      |            |
|                                                                                                                                                                   |                                                                                                                                                         |                                                                            |                                                                                                                       |                                                                                                                                                                        |                                                                  |                                                    |                                                          |                       |                                             |                                   |                                                                                                                                                     |                        | 2018                              | 2019       | 2020 | 2021 | 2022 | TOTAL      |
| 1                                                                                                                                                                 | Develop public health workforce strategy in line with HRH Strategic Plan (2018-2021) (Public Health workforce Planning, Quality, Governance, Financing) | All departments of MoHS (DPH and DHRH focal)                               | DHRH is developing Human Resource for Health Strategic Plan (2018-2021) in line with National Health Plan (2017-2021) | (1) Consultative workshops to develop public health workforce strategy (40 participants, 30 Away, 3 day, 3 times)                                                      | National                                                         | drafted Public health workforce strategy developed | Inter- and intra-departmental collaboration and supports | N                     |                                             | 11,470,000                        | (9000* (40- 30) +3 + 30 * 5* 30000 + 30 * 95000 + 3 * 250000 ( True) + 40 * 3 * (15000True + 10000True) + 40 * 2500True ) * 1 + 0 + 0               | 3                      | 34,410,000                        | -          | -    | -    | -    | 34,410,000 |
|                                                                                                                                                                   |                                                                                                                                                         | DHRH, DPH                                                                  |                                                                                                                       | (2) Hire a national consultant to support the development of Public Health Workforce strategy (1 National Consultant, 40 days- 2 months)                               | National                                                         | Public health workforce strategy developed         | Inter- and intra-departmental collaboration and supports | N                     |                                             | 11,200,000                        | 1* 40* (80000 + 200000) + 1* 0 = 1120000                                                                                                            | 1                      | 11,200,000                        | -          | -    | -    | -    | 11,200,000 |
|                                                                                                                                                                   |                                                                                                                                                         | DHRH, DPH                                                                  |                                                                                                                       | (3) Review and Revised Meetings on Finalization of Drafted Public Health Workforce Strategy by TWG (15 participants, 0 Away, 1 day, 4 times, at DHRH office)           | National                                                         | Number of TWG meetings                             |                                                          | N                     |                                             | 797,500                           | (9000* (15- 0) +1 + 0 * 3 * 30000 + 0 * 95000 + 1 * 250000 ( True) + 15 * 1* (15000True + 10000True) + 15 * 2500True) * 1 + 0 + 0                   | 2                      | 1,595,000                         | 1,595,000  | -    | -    | -    | 3,190,000  |
|                                                                                                                                                                   |                                                                                                                                                         | DHRH, DPH                                                                  |                                                                                                                       | (4) Advocacy and Awareness Workshop/Meeting on Public Health Workforce Strategy (100 participants, 35 away, 1 day, 1 time, printing and distribution of Strategy book) | National                                                         | Workshop done and Number of SoP booklet            |                                                          | N                     |                                             | 10,860,000                        | (9000* (100 - 35) +1 + 35 * 3 * 30000 + 35 * 95000 + 1 * 250000 ( True) + 100 * 1 * (15000True + 10000True) + 100 * 2500True) * 1 + 700000 + 100000 | 1                      | -                                 | 10,860,000 | -    | -    | -    | 10,860,000 |

## MATRIX FOR THE DEVELOPMENT OF NATIONAL ACTION PLAN FOR HEALTH SECURITY 2018 - 2022

## RESPONSE

General Objective: To establish a functional system and mechanism for effective multi-sectoral national and international response to all public health events.

| GOAL                | Preparedness                                                            |                                                                                                                                                                                   |                                                                   |                                                                                                                                                                               |                                                                  |                                                 |                                    |                        |                                             |                                                                                                                                                   |                        |      |            |      |      | Total Estimated cost (USD)                    |                                   |
|---------------------|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------|------------------------------------|------------------------|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------|------------|------|------|-----------------------------------------------|-----------------------------------|
| TECHNICAL AREA      | Respond 1                                                               | Multi-hazard National Public Health Emergency Preparedness and Response Plan is developed and Implemented                                                                         |                                                                   |                                                                                                                                                                               |                                                                  |                                                 |                                    |                        |                                             |                                                                                                                                                   |                        |      |            |      |      | Total Estimated cost (USD)                    |                                   |
| JEE Indicator       | R.1.1                                                                   | Multi-hazard National Public Health Emergency Preparedness and Response Plan is developed and Implemented                                                                         |                                                                   |                                                                                                                                                                               |                                                                  |                                                 |                                    |                        |                                             |                                                                                                                                                   |                        |      |            |      |      |                                               |                                   |
| JEE Scores          | 1                                                                       | Multi-hazard National Public Health Emergency Preparedness and Response Plan is developed and Implemented                                                                         |                                                                   |                                                                                                                                                                               |                                                                  |                                                 |                                    |                        |                                             |                                                                                                                                                   |                        |      |            |      |      | 498,907.05                                    |                                   |
| JEE recommendations | *                                                                       | Develop a national multi-hazard public health emergency preparedness and response plan, which should include processes for funding, managing, and mobilizing emergency resources. |                                                                   |                                                                                                                                                                               |                                                                  |                                                 |                                    |                        |                                             |                                                                                                                                                   |                        |      |            |      |      | Total Estimated cost (Local currency) (Kyats) |                                   |
| Objective           | To Strengthen Preparedness and Response again Public Health Emergencies | To Strengthen Preparedness and Response again Public Health Emergencies                                                                                                           |                                                                   |                                                                                                                                                                               |                                                                  |                                                 |                                    |                        |                                             |                                                                                                                                                   |                        |      |            |      |      | Total cost per year of Implementation         |                                   |
| No                  | Summary of Planned Activities at National Level (Strategic actions)     | "Responsible authority(s) for Implementation including budget line holder"                                                                                                        | Related existing plan/framework / Programe or on going activities | "Detailed activities (Input description for costing)"                                                                                                                         | Where is the action to be implemented (National or sub-national) | "Output Indicators (Monitoring and Evaluation)" | Comments or Potential challenges   | Existing bud- get(y/n) | Existing budget source (government, donor?) | "Estimated cost (Local currency)"                                                                                                                 | Year of implementation |      |            |      |      |                                               | Total Cost Year in Local Currency |
|                     |                                                                         |                                                                                                                                                                                   |                                                                   |                                                                                                                                                                               |                                                                  |                                                 |                                    |                        |                                             |                                                                                                                                                   | 2018                   | 2019 | 2020       | 2021 | 2022 | TOTAL                                         |                                   |
| 1                   | National Multi-hazard Health emergency Preparedness and Response plan   | MoHS                                                                                                                                                                              | Process of development of the plan is ongoing<br>Existing plans   | (1) Hire National Consultant (1 National Consultant, 60 days)                                                                                                                 | National                                                         | Draft plan and finalized plan developed         |                                    | Y                      | UNICEF                                      | 16,800,000<br>1* 60 * (80000 + 200000) + 1* 0 = 16800000                                                                                          | 1                      | -    | 16,800,000 | -    | -    | -                                             | 16,800,000                        |
|                     |                                                                         | MoHS                                                                                                                                                                              | Process of development of the plan is ongoing<br>Existing plans   | (2) Meeting on Organizing a task force group for National Multi-Hazard Health Emergency Preparedness and Response plan development (50 participants, 20 Away, 1 day, 2 times) | National                                                         | Draft plan and finalized plan developed         | Tight Schedule of the stakeholders | Y                      |                                             | 5,795,000<br>9000* (50- 20 )<br>*1 + 20 * 3* 30000 + 20 * 95000 + 1* 250000 ( True) + 50 *1* (15000True + 10000True) + 50 * 2500True) * 1 + 0 + 0 | 1                      | -    | 5,795,000  | -    | -    | -                                             | 5,795,000                         |
|                     |                                                                         | MoHS                                                                                                                                                                              | Process of development of the plan is ongoing<br>Existing plans   | (3) Workshop to get input for development of Multi-Hazard Health Emergency Preparedness and Response plan (50 participants, 20 Away, 1 day, 2 times)                          | National                                                         | Draft plan developed                            |                                    | Y                      |                                             | 5,795,000<br>9000* (50- 20 )<br>*1 + 20 * 3* 30000 + 20 * 95000 + 1* 250000 ( True) + 50 *1* (15000True + 10000True) + 50 * 2500True) * 1 + 0 + 0 | 1                      | -    | 5,795,000  | -    | -    | -                                             | 5,795,000                         |

# NATIONAL ACTION PLAN FOR HEALTH SECURITY (NAPHS)

| No | Summary of Planned Activities at National Level (Strategic actions)               | "Responsible authority(s) for implementation including budget line holder" | Related existing plan/framework/Programme or on going activities | "Detailed activities (input description for costing)"                                                                                                                                                                  | Where is the action to be implemented (National or sub-national) | "Output indicators (Monitoring and Evaluation)" | Comments or Potential challenges         | Existing budget (get/y/n) | Existing budget source (government, donor?) | "Estimated cost (Local currency)"                                                                                                                       | Year of Implementation | Total Cost Year in Local Currency |            |      |      |             |
|----|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------|------------------------------------------|---------------------------|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------------------|------------|------|------|-------------|
|    |                                                                                   |                                                                            |                                                                  |                                                                                                                                                                                                                        |                                                                  |                                                 |                                          |                           |                                             |                                                                                                                                                         | 2018                   | 2019                              | 2020       | 2021 | 2022 | TOTAL       |
|    |                                                                                   |                                                                            |                                                                  |                                                                                                                                                                                                                        |                                                                  |                                                 |                                          |                           |                                             |                                                                                                                                                         | 2018                   | 2019                              | 2020       | 2021 | 2022 |             |
| 2  | Advocacy on National Multi-hazard Health emergency Preparedness and Response plan | MoHS                                                                       | Process of development of the plan is ongoing Existing plans     | (4) Conduct Simulation exercise to get inputs for development of National Multi-Hazard Health Emergency Preparedness and Response plan (40 Participant, 30 Away, 2 days, 1 times, at each Central, States and Regions) | National/ Sub-national                                           | Draft plan developed                            | Tight Schedule of the stakeholders       | Y                         |                                             | 9,430,000<br>(9000* (40 - 30) *2 + 30 * 4 * 30000 + 30 * 95000 + 2 * 250000) (True) +40 * 2 * (15000)True + 10000True) + 40 * 2500True) * 1 + 0 + 0     | 11                     | 7                                 | 66,010,000 | -    | -    | 169,740,000 |
|    |                                                                                   |                                                                            |                                                                  |                                                                                                                                                                                                                        |                                                                  |                                                 |                                          |                           |                                             |                                                                                                                                                         | 1                      | 8,165,000                         | -          | -    | -    | 8,165,000   |
|    |                                                                                   | MoHS                                                                       |                                                                  | (5) Workshop to finalize draft plan (50 Participants, 20 Away, 2 days)                                                                                                                                                 | National                                                         | Finalized plan developed                        | Tight Schedule of the stakeholders       | Y                         |                                             | 8,165,000<br>(9000* (50 - 20) *2 + 20 * 4 * 30000 + 20 * 95000 + 2 * 250000) (True) +50 * 2 * (15000)True + 10000True) + 50 * 2500True) * 1 + 0 + 0     | 1                      | -                                 | -          | -    | -    | 8,165,000   |
|    |                                                                                   |                                                                            |                                                                  |                                                                                                                                                                                                                        |                                                                  |                                                 |                                          |                           |                                             |                                                                                                                                                         | 1                      | 11,140,000                        | -          | -    | -    | 11,140,000  |
|    |                                                                                   | MoHS                                                                       |                                                                  | (6) Dissemination workshop (or) Launching Ceremony National Multi Hazard Health Emergency Preparedness Plan (100 participant, 40 Away, 1 day, 1 times)                                                                 | National                                                         | Finalized plan developed                        | Tight Schedule of the stakeholders       | Y                         |                                             | 11,140,000<br>(9000* (100 - 40) *1 + 40 * 3 * 30000 + 40 * 95000 + 1 * 250000) (True) +100 * 1 * (15000)True + 10000True) + 100 * 2500True) * 1 + 0 + 0 | 1                      | -                                 | -          | -    | -    | 11,140,000  |
|    |                                                                                   |                                                                            |                                                                  |                                                                                                                                                                                                                        |                                                                  |                                                 |                                          |                           |                                             |                                                                                                                                                         | 1                      | 10,000,000                        | -          | -    | -    | 10,000,000  |
| 2  | Advocacy on National Multi-hazard Health emergency Preparedness and Response plan | MoHS                                                                       |                                                                  | (7) Printing, publishing and distribution of developed plan (2000 set of copies, 5000MMK/set)                                                                                                                          | National                                                         | Number of book of Plan printed and distributed. | Duration of printing of book             | Y                         |                                             | 10,000,000<br>(2000* 5000 MMK/set)                                                                                                                      | 1                      | -                                 | -          | -    | -    | 10,000,000  |
|    |                                                                                   |                                                                            |                                                                  |                                                                                                                                                                                                                        |                                                                  |                                                 |                                          |                           |                                             |                                                                                                                                                         | 1                      | 5,795,000                         | -          | -    | -    | 5,795,000   |
|    |                                                                                   | MoHS                                                                       |                                                                  | (1) Advocacy and awareness Meeting to stakeholders at Central level (50 participant, 20 Away, 1 day, 1 times at Naypyitaw)                                                                                             | National                                                         | Number of advocacy meetings                     | Multi-Sectoral awareness and Commitments | N                         |                                             | 5,795,000<br>(9000* (50 - 20) *1 + 20 * 3 * 30000 + 20 * 95000 + 1 * 250000) (True) +50 * 1 * (15000)True + 10000True) + 50 * 2500True) * 1 + 0 + 0     | 1                      | -                                 | 5,795,000  | -    | -    | 5,795,000   |
|    |                                                                                   |                                                                            |                                                                  |                                                                                                                                                                                                                        |                                                                  |                                                 |                                          |                           |                                             |                                                                                                                                                         | 17                     | -                                 | 98,515,000 | -    | -    | 98,515,000  |
|    |                                                                                   | MoHS                                                                       |                                                                  | (2) Advocacy and awareness Meeting to stakeholders at S/R level (50 participant, 20 Away, 1 day, 1 times at 17 States and Regions)                                                                                     | Subnational (States/ Regions)                                    | Number of advocacy meetings                     | Timely finalization of modules           | N                         |                                             | 5,795,000<br>(9000* (50 - 20) *1 + 20 * 3 * 30000 + 20 * 95000 + 1 * 250000) (True) +50 * 1 * (15000)True + 10000True) + 50 * 2500True) * 1 + 0 + 0     | 17                     | -                                 | 98,515,000 | -    | -    | 98,515,000  |
|    |                                                                                   |                                                                            |                                                                  |                                                                                                                                                                                                                        |                                                                  |                                                 |                                          |                           |                                             |                                                                                                                                                         | 17                     | -                                 | 98,515,000 | -    | -    | 98,515,000  |

|                                                                                                         |                                                                                             |      |                                                                                                                                                                                              |                            |                                                                                                                                                                                  |                                                                  |   |            |                                                                                                                                        |                                                                                                                                                                                                                                                                                              |    |   |   |             |            |             |
|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|---|------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|---|-------------|------------|-------------|
| 3                                                                                                       | Exercise on National Multi-hazard Health emergency Preparedness and Response plan           | MoHS | (1) Hire international consultant to develop exercise modules of National Multi Hazard Health Emergency preparedness and response Plan (1 International, 40 days)                            | National                   | Exercise modules developed                                                                                                                                                       | Interest and understanding of exercises                          | N | 37,540,800 | 1 * 40 * (238920 + 660000) + 1 * 1584000 = 37540800                                                                                    | Number = 1 ; No of Days: 40, Per diem = 238920 ; Daily rate = 660000 ; Travel = 1584000                                                                                                                                                                                                      | 1  | - | - | 37,540,800  | -          | 37,540,800  |
|                                                                                                         |                                                                                             | MoHS | (2) Table Top Exercise or simulation exercise on Multi Hazard preparedness and response Plan at Central level (50 participants, 20 Away, 2 days, 2 times)                                    | National                   | Number of Simulation exercises done                                                                                                                                              | Interest and understanding of exercises                          | N | 8,165,000  | (9000* (50 - 20) * 2 + 20 * 4 * 30000 + 20 * 95000 + 2 * 250000 (True) + 50 * 2 * (15000True + 10000True) + 50 * 2500True) * 1 + 0 + 0 | 1 Training : Per diem = 9000 Participants = 50 Days = 2, Participants away = 20 Days away = 4 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Print Dis = 100000, Printing costs = 0, Disseminating costs = 0 | 1  | - | - | 8,165,000   | 8,165,000  | 16,330,000  |
|                                                                                                         |                                                                                             | MoHS | (3) Table Top Exercise or simulation exercise on Multi Hazard preparedness and response Plan at State and Region level (50 participants, 20 Away, 2 days, 1 times, at 17 States and Regions) | Subnational (State/Region) | Workshop conducted                                                                                                                                                               | Accurate Lessons, Learnt is essential                            | N | 8,165,000  | (9000* (50 - 20) * 2 + 20 * 4 * 30000 + 20 * 95000 + 2 * 250000 (True) + 50 * 2 * (15000True + 10000True) + 50 * 2500True) * 1 + 0 + 0 | 1 Meeting : Per diem = 9000 Participants = 50 Days = 2, Participants away = 20 Days away = 4 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Print Dis = 100000, Printing costs = 0, Disseminating costs = 0  | 9  | 8 | - | 73,485,000  | 65,320,000 | 138,805,000 |
| 4                                                                                                       | Review and Revise the National Multi-Hazard Health emergency Preparedness and Response plan | MoHS | (4) Workshop to review National Multi Hazard Health Emergency preparedness and response Plan for adaption of national content and context (50 participants, 20 Away, 2 days, 1 times)        | National                   | Workshop conducted                                                                                                                                                               | Accurate Lessons, Learnt is essential                            | N | 8,165,000  | (9000* (50 - 20) * 2 + 20 * 4 * 30000 + 20 * 95000 + 2 * 250000 (True) + 50 * 2 * (15000True + 10000True) + 50 * 2500True) * 1 + 0 + 0 | 1 Meeting : Per diem = 9000 Participants = 50 Days = 2, Participants away = 20 Days away = 4 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Print Dis = 100000, Printing costs = 0, Disseminating costs = 0  | 1  | - | - | -           | 8,165,000  | 8,165,000   |
| <b>Priority public health risks and resources are mapped and utilized</b>                               |                                                                                             |      |                                                                                                                                                                                              |                            |                                                                                                                                                                                  |                                                                  |   |            |                                                                                                                                        |                                                                                                                                                                                                                                                                                              |    |   |   |             |            |             |
| <b>JEE Indicator R.1.2</b>                                                                              |                                                                                             |      |                                                                                                                                                                                              |                            |                                                                                                                                                                                  |                                                                  |   |            |                                                                                                                                        |                                                                                                                                                                                                                                                                                              |    |   |   |             |            |             |
| <b>JEE Scores 1</b>                                                                                     |                                                                                             |      |                                                                                                                                                                                              |                            |                                                                                                                                                                                  |                                                                  |   |            |                                                                                                                                        |                                                                                                                                                                                                                                                                                              |    |   |   |             |            |             |
| <b>JEE recommendations *</b>                                                                            |                                                                                             |      |                                                                                                                                                                                              |                            |                                                                                                                                                                                  |                                                                  |   |            |                                                                                                                                        |                                                                                                                                                                                                                                                                                              |    |   |   |             |            |             |
| <b>Objective *</b>                                                                                      |                                                                                             |      |                                                                                                                                                                                              |                            |                                                                                                                                                                                  |                                                                  |   |            |                                                                                                                                        |                                                                                                                                                                                                                                                                                              |    |   |   |             |            |             |
| <b>To strengthen National Public Health Assessment to Identify and Prioritise Public Health Threats</b> |                                                                                             |      |                                                                                                                                                                                              |                            |                                                                                                                                                                                  |                                                                  |   |            |                                                                                                                                        |                                                                                                                                                                                                                                                                                              |    |   |   |             |            |             |
| 1                                                                                                       | Conduct Mapping of Public Health Risk and Health Resource                                   | MoHS | MIMU, information sharing practices among stakeholder                                                                                                                                        | National                   | Development of different maps                                                                                                                                                    | Multi-Sectoral involvement for accurate and relevant information | N | 55,519,200 | 1 * 60 * (238920 + 660000) + 1 * 1584000 = 55519200                                                                                    | Number = 1 ; No of Days: 60, Per diem = 238920 ; Daily rate = 660000 ; Travel = 1584000                                                                                                                                                                                                      | 1  | - | - | 55,519,200  | -          | 55,519,200  |
|                                                                                                         |                                                                                             | MoHS | MIMU, information sharing practices among stakeholder                                                                                                                                        | National                   | Workshop to develop risk and resources mapping within State and Region. (50 participants, 30 Away, 2 days 1 times at each from 17 States and Regions, during 3 months in a year) |                                                                  | N | 9,985,000  | (9000* (50 - 30) * 2 + 30 * 4 * 30000 + 30 * 95000 + 2 * 250000 (True) + 50 * 2 * (15000True + 10000True) + 50 * 2500True) * 1 + 0 + 0 | 1 Workshop : Per diem = 9000 Participants = 50 Days = 2, Participants away = 30 Days away = 4 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0                     | 17 | - | - | 169,745,000 | -          | 169,745,000 |



| No | Summary of Planned Activities at National Level (Strategic actions)                      | "Responsible authority(s) for implementation including budget line holder" | Related existing plan/ framework / Programme or ongoing activities | "Detailed activities (input description for costing)"                                                                        | Where is the action to be implemented (National or sub-national) | "Output Indicators (Monitoring and Evaluation)" | Comments or Potential challenges | Existing budget (y/n) | Existing budget source (government, donor?) | "Estimated cost (Local currency)"                                                                                                                                                     | Year of implementation |      | Total Cost Year in Local Currency |      |            |   |         | TOTAL   |         |  |  |  |           |            |
|----|------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------|----------------------------------|-----------------------|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------|-----------------------------------|------|------------|---|---------|---------|---------|--|--|--|-----------|------------|
|    |                                                                                          |                                                                            |                                                                    |                                                                                                                              |                                                                  |                                                 |                                  |                       |                                             |                                                                                                                                                                                       | 2018                   | 2019 | 2020                              | 2021 | 2022       |   |         |         |         |  |  |  |           |            |
|    |                                                                                          |                                                                            |                                                                    |                                                                                                                              |                                                                  |                                                 |                                  |                       |                                             |                                                                                                                                                                                       | 2                      | 2    | 2                                 | 2    | 2          |   |         |         |         |  |  |  |           |            |
|    |                                                                                          |                                                                            |                                                                    |                                                                                                                              |                                                                  |                                                 |                                  |                       |                                             |                                                                                                                                                                                       | 0                      | 0    | 0                                 | 0    | 0          |   |         |         |         |  |  |  |           |            |
|    |                                                                                          |                                                                            |                                                                    |                                                                                                                              |                                                                  |                                                 |                                  |                       |                                             |                                                                                                                                                                                       | 1                      | 1    | 2                                 | 2    | 2          |   |         |         |         |  |  |  |           |            |
|    |                                                                                          |                                                                            |                                                                    |                                                                                                                              |                                                                  |                                                 |                                  |                       |                                             |                                                                                                                                                                                       | 8                      | 9    | 0                                 | 1    | 2          |   |         |         |         |  |  |  |           |            |
|    |                                                                                          | MohS                                                                       | MIMU, information sharing practices among stakeholder              | (3) Printing, publishing and distribution of the set Map and Mapping for 17 States and Regions (1 set, 30000MMK/map-set)     | National                                                         | Number of different types of maps               |                                  | N                     |                                             | 30,000                                                                                                                                                                                | 17                     | 17   |                                   |      |            | - | 510,000 | 510,000 | 510,000 |  |  |  | 1,530,000 |            |
| 2. | Capacity building to increase capacity on Public Health Risk and Health Resource Mapping | MohS                                                                       | Basic GIS Training is ongoing<br>To check "Name" of training       | (1) Training on Public Health Risk and Health Resource Mapping for relevant staff (50 participants, 34 Away, 5 day, 1 times) | National                                                         | Training conducted                              |                                  | N                     |                                             | 18,915,000<br>(9000* 50- 34 )<br>*5 + 34 * 7 * 30000<br>+ 34 * 95000 + 5 * 250000 ( True ) +50<br>* 5 * ( 15000True<br>+ 10000True ) +<br>50 * 2500True ) * 1<br>+ 0 + 0<br>costs = 0 | 1                      |      |                                   | -    | 18,915,000 | - | -       |         |         |  |  |  |           | 18,915,000 |

**General Objective:** To establish a functional system and mechanism for effective multi-sectoral national and international response to all public health events.

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| No                                                                                                                                                                                                                                                                                                 | Summary of Planned Activities at National Level (Strategic actions) | "Responsible authority(s) for implementation including budget line holder" | Related existing plan/framework / Programme or on going activities | "Detailed activities (input description for costing)"                                                                                                                     | Where is the action to be implemented (National or sub-national) | "Output indicators (Monitoring and Evaluation)"                  | Comments or Potential challenges     | Existing budget (get/y/n) | Existing budget source (government, donor?) | "Estimated cost (Local currency)"                                                                           | Year of Implementation | Total Cost Year in Local Currency |             |             |             |             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|--------------------------------------|---------------------------|---------------------------------------------|-------------------------------------------------------------------------------------------------------------|------------------------|-----------------------------------|-------------|-------------|-------------|-------------|
|                                                                                                                                                                                                                                                                                                    |                                                                     |                                                                            |                                                                    |                                                                                                                                                                           |                                                                  |                                                                  |                                      |                           |                                             |                                                                                                             |                        | 2018                              | 2019        | 2020        | 2021        | 2022        |
|                                                                                                                                                                                                                                                                                                    |                                                                     |                                                                            |                                                                    |                                                                                                                                                                           |                                                                  |                                                                  |                                      |                           |                                             |                                                                                                             | 2 0 1 8                |                                   |             |             |             |             |
| 2                                                                                                                                                                                                                                                                                                  | Upgrading the facility of PHEOC                                     | MoHS                                                                       | Currently working Unit for preparedness and response               | (1) Upgrading the facility of PHEOC of DoH Procurement equipment, commodities, supplies for Central (Lampsum, 1*15000 USD * 1320 MMK per year)                            | National                                                         | Set up PHEOC facility according to Checklist of PHEOC facilities | Budget Approval                      | N                         |                                             | 19,800,000 1*15000*1320 = 19800000                                                                          | 1 1 1                  | -                                 | 19,800,000  | 19,800,000  | 19,800,000  | 79,200,000  |
|                                                                                                                                                                                                                                                                                                    |                                                                     | MoHS                                                                       | Currently working Unit for preparedness and response               | (2) Upgrading the facility of PHEOC of DoH Procurement equipment, commodities, supplies for 17 States and Regions (Lampsum, 17*5000 USD * 1320 MMK per facility per year) | S/R                                                              |                                                                  |                                      | N                         |                                             | 6,600,000 1*5000*1320 = 11220000                                                                            | 17 17 17               | -                                 | 112,200,000 | 112,200,000 | 112,200,000 | 448,800,000 |
| <b>Emergency Operations Centre Operating Procedures and Plan</b>                                                                                                                                                                                                                                   |                                                                     |                                                                            |                                                                    |                                                                                                                                                                           |                                                                  |                                                                  |                                      |                           |                                             |                                                                                                             |                        |                                   |             |             |             |             |
| <b>JEE Indicator R.2.2</b>                                                                                                                                                                                                                                                                         |                                                                     |                                                                            |                                                                    |                                                                                                                                                                           |                                                                  |                                                                  |                                      |                           |                                             |                                                                                                             |                        |                                   |             |             |             |             |
| <b>JEE Scores 1</b>                                                                                                                                                                                                                                                                                |                                                                     |                                                                            |                                                                    |                                                                                                                                                                           |                                                                  |                                                                  |                                      |                           |                                             |                                                                                                             |                        |                                   |             |             |             |             |
| <b>JEE recommendations</b>                                                                                                                                                                                                                                                                         |                                                                     |                                                                            |                                                                    |                                                                                                                                                                           |                                                                  |                                                                  |                                      |                           |                                             |                                                                                                             |                        |                                   |             |             |             |             |
| * Identify and assign permanent staff for the PH EOC within an IMS structure, along with job descriptions and appropriate training                                                                                                                                                                 |                                                                     |                                                                            |                                                                    |                                                                                                                                                                           |                                                                  |                                                                  |                                      |                           |                                             |                                                                                                             |                        |                                   |             |             |             |             |
| * Develop a PHEOC plan / handbook with associated SOPs Initiate an exercise and continuous improvement programme for emergency preparedness and response by conducting at least one table-top and one functional exercise per year to reinforce IMS personnel training, skills and EOC operations. |                                                                     |                                                                            |                                                                    |                                                                                                                                                                           |                                                                  |                                                                  |                                      |                           |                                             |                                                                                                             |                        |                                   |             |             |             |             |
| * Develop SOPs for response operations, daily functions, managing cases of infectious patients, including at the points of entry                                                                                                                                                                   |                                                                     |                                                                            |                                                                    |                                                                                                                                                                           |                                                                  |                                                                  |                                      |                           |                                             |                                                                                                             |                        |                                   |             |             |             |             |
| <b>Objective</b>                                                                                                                                                                                                                                                                                   |                                                                     |                                                                            |                                                                    |                                                                                                                                                                           |                                                                  |                                                                  |                                      |                           |                                             |                                                                                                             |                        |                                   |             |             |             |             |
| 1                                                                                                                                                                                                                                                                                                  | PHEOC Plan and SOPs development                                     | MoHS                                                                       | Currently working Unit for preparedness and response               | (1) Hire National consultant to develop SOPs/necessary plans for PHEOCs (1 National Consultant, 120 days)                                                                 | National                                                         | Plan/ SOPs developed                                             | Multi-Sectoral Inputs and Interest   | N                         |                                             | 33,600,000 1*120*(80000+200000)+1*0=33600000                                                                | 1                      | -                                 | 33,600,000  | -           | -           | 33,600,000  |
|                                                                                                                                                                                                                                                                                                    |                                                                     |                                                                            | Currently working Unit for preparedness and response               | (2) Meeting/ workshop to develop SOPs/necessary plans (50 participants, 20 Away, 2 days, 2 times)                                                                         | National                                                         | Plan/ SOPs developed                                             | Multi-Sectoral Inputs and Interest   | N                         |                                             | 8,165,000 (9000*(50-20)+2*20*4*30000+20*95000+2*250000*(True)+50*2*(15000True+10000True)+50*2500True)*1+0+0 | 2                      | -                                 | 16,330,000  | -           | -           | 16,330,000  |
|                                                                                                                                                                                                                                                                                                    |                                                                     | MoHS                                                                       | Currently working Unit for preparedness and response               | (3) Meeting/ workshop to review and revise SOPs / necessary plans (50 participants, 20 Away, 2 days, 2 times)                                                             | National                                                         | Meeting/ workshop conducted                                      | Accurate Lessons, teams is essential | N                         |                                             | 8,165,000 (9000*(50-20)+2*20*4*30000+20*95000+2*250000*(True)+50*2*(15000True+10000True)+50*2500True)*1+0+0 | 1                      | -                                 | 8,165,000   | -           | 8,165,000   | 16,330,000  |

| JEE Indicator                                                                                                    | R.2.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Emergency Operations Program                                        |                                                                                                                                                      |                                    |                                                                |                                                 |   |            |                                                                                                                                           |                                                                                                                                                                                                                                                                                              |    |    |    |   |  |  |  |  |            |             |             |             |             |
|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|----------------------------------------------------------------|-------------------------------------------------|---|------------|-------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|---|--|--|--|--|------------|-------------|-------------|-------------|-------------|
| JEE Scores                                                                                                       | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                     |                                                                                                                                                      |                                    |                                                                |                                                 |   |            |                                                                                                                                           |                                                                                                                                                                                                                                                                                              |    |    |    |   |  |  |  |  |            |             |             |             |             |
| JEE recommendations                                                                                              | * Identify and assign permanent staff for the PH EOC within an IMS structure, along with job descriptions and appropriate training<br>* Develop a PHEOC plan / handbook with associated SOPs<br>* Initiate an exercise and continuous improvement programme for emergency preparedness and response by conducting at least one table-top and one functional exercise per year to reinforce IMS personnel training, skills and EOC operations.<br>* Develop SOPs for response operations, daily functions, managing cases of infectious patients, including at the points of entry |                                                                     |                                                                                                                                                      |                                    |                                                                |                                                 |   |            |                                                                                                                                           |                                                                                                                                                                                                                                                                                              |    |    |    |   |  |  |  |  |            |             |             |             |             |
| Objective                                                                                                        | * To strengthen effective functioning of Public Health Emergency Operation Center against Public Health Emergencies                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                     |                                                                                                                                                      |                                    |                                                                |                                                 |   |            |                                                                                                                                           |                                                                                                                                                                                                                                                                                              |    |    |    |   |  |  |  |  |            |             |             |             |             |
| 1<br>Strengthening of PHEOC functions effectively                                                                | MoHS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Currently working Unit for preparedness and response                | (1) Hire National consultant to develop exercise modules for PHEOC. (1 National Consultant, 60 days)                                                 | National                           | Exercise module developed                                      | Technical Expert Person for this                | N | 16,800,000 | $1 * 60 * (80000 + 200000) + 1 * 0 = 16800000$                                                                                            | Number = 1; No of Days: 60, Per diem = 80000; Daily rate = 200000; Travel = 0                                                                                                                                                                                                                | 1  |    |    |   |  |  |  |  | 16,800,000 | -           | -           | 16,800,000  |             |
|                                                                                                                  | MoHS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Currently working Unit for preparedness and response                | (2) Conduct Simulation Exercise or drills at Central level (50 participants, 30 Away, 2 days, 1 times per year at Central level)                     | National                           | Number of exercise conducted                                   | Interest and practicing by participants         | N | 10,435,000 | $(9000 * (50 - 30) * 2 + 30 * 4 * 30000 + 30 * 95000 + 2 * 250000 (True) + 50 * 2 * (15000True + 10000True) + 50 * 2500True) * 1 + 0 + 0$ | 1 Training : Per diem = 9000 Participants = 50 Days = 2, Participants away = 30 Days away = 4 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Print Dis = 500000, Printing costs = 0, Disseminating costs = 0 | 1  | 1  | 1  |   |  |  |  |  |            | 10,435,000  | 10,435,000  | 10,435,000  | 31,305,000  |
|                                                                                                                  | MoHS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Currently working Unit for preparedness and response                | (3) Conduct Simulation Exercise or drills at State and Regional level (50 participants, 20 Away, 2 days, 1 times per year at each State and Region)  | Subnational Level (State / Region) | Number of exercise conducted                                   | Interest and practicing by participants         | N | 8,265,000  | $(9000 * (50 - 20) * 2 + 20 * 4 * 30000 + 20 * 95000 + 2 * 250000 (True) + 50 * 2 * (15000True + 10000True) + 50 * 2500True) * 1 + 0 + 0$ | 1 Training : Per diem = 9000 Participants = 50 Days = 2, Participants away = 20 Days away = 4 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Print Dis = 300000, Printing costs = 0, Disseminating costs = 0 | 17 | 17 | 17 |   |  |  |  |  |            | 140,505,000 | 140,505,000 | 140,505,000 | 421,515,000 |
| JEE Indicator                                                                                                    | R.2.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Case management procedures are implemented for IHR relevant hazards |                                                                                                                                                      |                                    |                                                                |                                                 |   |            |                                                                                                                                           |                                                                                                                                                                                                                                                                                              |    |    |    |   |  |  |  |  |            |             |             |             |             |
| JEE Scores                                                                                                       | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                     |                                                                                                                                                      |                                    |                                                                |                                                 |   |            |                                                                                                                                           |                                                                                                                                                                                                                                                                                              |    |    |    |   |  |  |  |  |            |             |             |             |             |
| JEE recommendations                                                                                              | * Identify and assign permanent staff for the PH EOC within an IMS structure, along with job descriptions and appropriate training<br>* Develop a PHEOC plan / handbook with associated SOPs<br>* Initiate an exercise and continuous improvement programme for emergency preparedness and response by conducting at least one table-top and one functional exercise per year to reinforce IMS personnel training, skills and EOC operations.<br>* Develop SOPs for response operations, daily functions, managing cases of infectious patients, including at the points of entry |                                                                     |                                                                                                                                                      |                                    |                                                                |                                                 |   |            |                                                                                                                                           |                                                                                                                                                                                                                                                                                              |    |    |    |   |  |  |  |  |            |             |             |             |             |
| Objective                                                                                                        | * To strengthen effective functioning of Public Health Emergency Operation Center against Public Health Emergencies                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                     |                                                                                                                                                      |                                    |                                                                |                                                 |   |            |                                                                                                                                           |                                                                                                                                                                                                                                                                                              |    |    |    |   |  |  |  |  |            |             |             |             |             |
| 1<br>To update after review/ revise or develop guidelines / SOPs for prioritized diseases and health emergencies | MoHS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -                                                                   | (1) Workshop/ meeting to update or develop necessary guidelines or SOPs for prioritized diseases (50 participant, 20 Away, 3 days, 1 times per year) | National                           | Guidelines/ SOPs developed or updated                          | Technical inputs by multi-sectoral stakeholders | N | 10,535,000 | $(9000 * (50 - 20) * 3 + 20 * 5 * 30000 + 20 * 95000 + 3 * 250000 (True) + 50 * 3 * (15000True + 10000True) + 50 * 2500True) * 1 + 0 + 0$ | 1 Workshop: Per diem = 9000 Participants = 50 Days = 3, Participants away = 20 Days away = 5 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Print Dis = 200000, Printing costs = 0, Disseminating costs = 0  | 1  | 1  | 1  |   |  |  |  |  |            | 10,535,000  | 10,535,000  | 10,535,000  | 42,140,000  |
|                                                                                                                  | MoHS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -                                                                   | (2) Printing, publishing and distribution of the developed guidelines and SOPs (2000 set, 5000MMK per set)                                           | National                           | Number of each type of Guidelines/ SOPs printed or distributed | Budget                                          | N | 10,000,000 |                                                                                                                                           |                                                                                                                                                                                                                                                                                              |    | 1  | 1  | 1 |  |  |  |  |            |             | -           | 10,000,000  | 10,000,000  |

## NATIONAL ACTION PLAN FOR HEALTH SECURITY (NAPHS)

| No | Summary of Planned Activities at National Level (Strategic actions)                                                              | "Responsible authority(s) for implementation including budget line holder" | Related existing plan/framework / Programme or ongoing activities | "Detailed activities (Input description for costing)"                                                                                              | Where action to be implemented (National or sub-national) | "Output Indicators (Monitoring and Evaluation)" | Comments or Potential challenges         | Existing bud- get(y/n) | Existing budget source (government, donor?) | "Estimated cost (Local currency)"                                                                                                                                                                                                                                                                                            |            | Year of Implementation<br><br>2018<br>2019<br>2020<br>2021<br>2022 | Total Cost Year in Local Currency | TOTAL       |
|----|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------|------------------------------------------|------------------------|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------------------------------------------------------|-----------------------------------|-------------|
| 2  | Exercises for guidelines/SOPs; exercise modules for prioritized diseases and health emergencies                                  | MohS                                                                       | -                                                                 | (1) Hire National consultant to develop/exercise modules for essential Guidelines and SOPs (1 National Consultant, 40 day, 2 times)<br><br>        | National                                                  | Exercise module developed                       | Tight schedules by trainers and trainees | N                      |                                             | 11,200,000<br><br>Number = 1 ; No of Days : 40 , Per diem = 80000 ; Daily rate = 200000 ; Travel = 0<br>11200000                                                                                                                                                                                                             | 1 1        | -<br>11,200,000<br>-                                               | -<br>11,200,000<br>-              | 22,400,000  |
|    |                                                                                                                                  | MohS                                                                       | -                                                                 | (1) Exercise on revised Guideline and SOPs at Central level (50 participants, 30 Away, 2 days, 1 times per year)<br><br>                           | National                                                  | Number of exercises conducted                   | Tight schedules by trainers and trainees | N                      |                                             | 10,435,000<br><br>1 Training : Per diem = 9000 Participants = 50 Days = 2, Participants away = 30 Days away = 4 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Print Dis = 500000, Printing costs = 0, Disseminating costs = 0<br>10,435,000 | 1 1<br>1 1 | -<br>10,435,000<br>-                                               | 10,435,000                        | 31,305,000  |
|    |                                                                                                                                  | MohS                                                                       | -                                                                 | (2) Exercise on revised Guideline and SOPs at 17 State and Regions (50 participants, 30 Away, 2 days, 1 times for each State and Region)<br><br>   | S/R                                                       | Number of exercises conducted                   | Tight schedules by trainers and trainees | N                      |                                             | 7,965,000<br><br>1 Training : Per diem = 9000 Participants = 50 Days = 2, Participants away = 20 Days away = 4 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0<br>7,965,000                       | 10 7       | -<br>-                                                             | 79,650,000                        | 135,405,000 |
| 3  | Review and revise the developed documents for guidelines / SOPs/ exercise modules for prioritized disease and health emergencies | MohS                                                                       | -                                                                 | (1) Workshop/meeting to do review and revise the guidelines/ SOPs and exercise modules (50 participant, 20 Away, 2 days, 1 times per year)<br><br> | National                                                  | Updated guideline/ SOPs-developed               | Accurate Lessons learnts is essential    | N                      |                                             | 8,265,000<br><br>1 Workshop : Per diem = 9000 Participants = 50 Days = 2, Participants away = 20 Days away = 4 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Print Dis = 300000, Printing costs = 0, Disseminating costs = 0<br>8,265,000   | 1          | -<br>-                                                             | 8,265,000                         | 8,265,000   |

## RESPONSE

General Objective: To establish a functional system and mechanism for effective multi-sectoral national and international response to all public health events.

| GOAL                | Linking Public Health and Security Authorities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                   |                                                                                                                       |                                                                                                                                                                                                                      |                                                                  |                                                               |                                                                                                                                                                           |                          |                                             |                                   |                        |      |      |      |      | Total<br>Estimated<br>cost<br>(USD) |                                   |           |   |   |                                               |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------------------------------|-----------------------------------|------------------------|------|------|------|------|-------------------------------------|-----------------------------------|-----------|---|---|-----------------------------------------------|
| TECHNICAL AREA      | Respond 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Public Health and Security Authorities, (e.g. Law Enforcement, Border Control, Customs) are linked during a suspect or confirmed biological event |                                                                                                                       |                                                                                                                                                                                                                      |                                                                  |                                                               |                                                                                                                                                                           |                          |                                             |                                   |                        |      |      |      |      |                                     |                                   |           |   |   |                                               |
| JEE Indicator       | R.3.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                   |                                                                                                                       |                                                                                                                                                                                                                      |                                                                  |                                                               |                                                                                                                                                                           |                          |                                             |                                   |                        |      |      |      |      |                                     |                                   |           |   |   |                                               |
| JEE Scores          | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                   |                                                                                                                       |                                                                                                                                                                                                                      |                                                                  |                                                               |                                                                                                                                                                           |                          |                                             |                                   |                        |      |      |      |      |                                     | 83,019,23                         |           |   |   |                                               |
| JEE recommendations | <div>* Develop a Memorandum of Understanding (MOU) or other agreement between public health and security organizations, which defines the criteria that trigger immediate sharing of information.</div> <div>* Develop SOPs for joint public health and security risk assessment of potential deliberate biological incidents that have both public health and security ramifications, as well as for implementing the information sharing MOU.</div> <div>* Develop a joint exercise program between public health and security authorities that tests and improves plans and procedures.</div> |                                                                                                                                                   |                                                                                                                       |                                                                                                                                                                                                                      |                                                                  |                                                               |                                                                                                                                                                           |                          |                                             |                                   |                        |      |      |      |      |                                     |                                   |           |   |   |                                               |
| Objective           | Enable country to conduct a rapid, multisectoral response in case of a biological event of suspected or confirmed biological event.                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                   |                                                                                                                       |                                                                                                                                                                                                                      |                                                                  |                                                               |                                                                                                                                                                           |                          |                                             |                                   |                        |      |      |      |      |                                     |                                   |           |   |   |                                               |
| No                  | Summary of Planned Activities at National Level (Strategic actions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | "Responsible authority(s) for implementation including budget line holder"                                                                        | Related existing plan/framework / Program or ongoing activities                                                       | "Detailed activities (Input description for costing)"                                                                                                                                                                | Where is the action to be implemented (National or sub-national) | "Output indicators (Monitoring and Evaluation)"               | Comments or Potential challenges                                                                                                                                          | Existing budget-get(y/n) | Existing budget source (government, donor?) | "Estimated cost (Local currency)" | Year of implementation |      |      |      |      |                                     | Total Cost Year in Local Currency |           |   |   | Total Estimated cost (Local currency) (Nyats) |
|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                   |                                                                                                                       |                                                                                                                                                                                                                      |                                                                  |                                                               |                                                                                                                                                                           |                          |                                             |                                   | 2018                   | 2019 | 2020 | 2021 | 2022 | TOTAL                               |                                   |           |   |   |                                               |
|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                   |                                                                                                                       |                                                                                                                                                                                                                      |                                                                  |                                                               |                                                                                                                                                                           |                          |                                             |                                   | 1                      | 1    |      |      |      |                                     |                                   |           |   |   |                                               |
|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                   |                                                                                                                       |                                                                                                                                                                                                                      |                                                                  |                                                               |                                                                                                                                                                           |                          |                                             |                                   | 2                      | 2    | 2    | 2    | 2    |                                     |                                   |           |   |   |                                               |
|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                   |                                                                                                                       |                                                                                                                                                                                                                      |                                                                  |                                                               |                                                                                                                                                                           |                          |                                             |                                   | 0                      | 0    | 0    | 0    | 0    |                                     |                                   |           |   |   |                                               |
|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                   |                                                                                                                       |                                                                                                                                                                                                                      |                                                                  |                                                               |                                                                                                                                                                           |                          |                                             |                                   | 1                      | 1    | 2    | 2    | 2    |                                     |                                   |           |   |   |                                               |
|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                   |                                                                                                                       |                                                                                                                                                                                                                      |                                                                  |                                                               |                                                                                                                                                                           |                          |                                             |                                   | 8                      | 9    | 0    | 1    | 2    |                                     |                                   |           |   |   |                                               |
| 1                   | Development of MOU or other Agreement or Definite plan between public health and security organizations for better co-ordination and response to biological events                                                                                                                                                                                                                                                                                                                                                                                                                               | MOHS/ Ministry of Defense/ Ministry of Home affairs/ MSWRR/ local gov/ MoALI                                                                      | National Disaster Management Committee already existed, but need to modify for better co-ordination and communication | (1) Mid-level Meetings/ Workshop for develop draft agreement between public health and security Organizations for better coordination and response to biological Events. (50 participants, 20 Away, 2 days, 2 times) | National                                                         | Draft agreement/MOU developed                                 | (1)Poor formal co-ordination<br>(2)Weakness in written documentation<br>(3)No previous experience of MOU/ agreement between Ministries<br>(4)Need for Negotiation Process | N                        |                                             | 8,165,000                         | 1                      | 1    |      |      |      |                                     | 8,165,000                         | 8,165,000 | - | - | 16,330,000                                    |
|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                   |                                                                                                                       |                                                                                                                                                                                                                      |                                                                  |                                                               |                                                                                                                                                                           |                          |                                             |                                   |                        |      |      |      |      |                                     |                                   |           |   |   |                                               |
|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                   |                                                                                                                       | (2) High Level Meeting on advocacy for drafted MOU or other Agreement or Definite plan to do decision making (1 Time) (40 participants, 20 Away, 2 days 1 times)                                                     | National                                                         | Finalized Agreement/ MOU                                      | Commitments and Interests by Decision makers                                                                                                                              | N                        |                                             | 7,260,000                         | 1                      | 1    |      |      |      |                                     | -                                 | 7,260,000 | - | - | 7,260,000                                     |
|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                   |                                                                                                                       | (3) Workshop on finalization of agreed meeting minutes/agreement documentation (written documents) signed by higher authorities (40 participants, 20 Away, 2 days 1 times)                                           | National                                                         | Documented MOU between Public health and Security Authorities | Commitments of Stakeholder and responsible persons                                                                                                                        | N                        |                                             | 5,230,000                         | 1                      | 1    |      |      |      |                                     | -                                 | 5,230,000 | - | - | 5,230,000                                     |

# NATIONAL ACTION PLAN FOR HEALTH SECURITY (NAPHS)

| No    | Summary of Planned Activities at National Level (Strategic actions)                                                                               | "Responsible authority(s) for implementation including budget line holder"              | Related existing plan/ framework/ Programme or on going activities | "Detailed activities (input description for costing)"                                                                                                                               | Where is the action to be implemented (National or sub-national) | "Output indicators (Monitoring and Evaluation)"                        | Comments or Potential challenges                 | Existing budget (y/n) | Existing budget source (government, donor?) | "Estimated cost (local currency)"                                                                                                                    | Year of implementation                                                                                                                                                                                                                                                  |      |      |            |      |       |      |      |      |            | Total Cost Year in Local Currency |       |  |  |  |  |  |  |  |  |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------------|--------------------------------------------------|-----------------------|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------------|------|-------|------|------|------|------------|-----------------------------------|-------|--|--|--|--|--|--|--|--|
|       |                                                                                                                                                   |                                                                                         |                                                                    |                                                                                                                                                                                     |                                                                  |                                                                        |                                                  |                       |                                             |                                                                                                                                                      |                                                                                                                                                                                                                                                                         |      |      |            |      |       |      |      |      |            |                                   |       |  |  |  |  |  |  |  |  |
|       |                                                                                                                                                   |                                                                                         |                                                                    |                                                                                                                                                                                     |                                                                  |                                                                        |                                                  |                       |                                             |                                                                                                                                                      | 2018                                                                                                                                                                                                                                                                    | 2019 | 2020 | 2021       | 2022 | TOTAL | 2018 | 2019 | 2020 | 2021       | 2022                              | TOTAL |  |  |  |  |  |  |  |  |
|       |                                                                                                                                                   |                                                                                         |                                                                    | (4) Workshop/Meeting on dissemination of Agreements to related ministries for formal acceptance (50 participants, 20 Away, 1 day, 1 times)                                          | National                                                         | Ready to implement in biological event according to approved agreement | Functioning of communication channel Established | N                     |                                             | 5,795,000<br>(9000* (50 - 20 ) *1 + 20 * 3 * 30000 + 20 * 95000 + 1 * 250000 (True) + 50 * 1 * (15000True + 10000True) + 50 * 2500True) * 1 + 0 + 0  | 1 Workshop : Per diem = 9000 Participants = 50 Days = 1, Participants away = 20 Days away = 3 Dien away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Diseminating costs = 0 |      | -    | 5,795,000  | -    | -     | -    | -    | -    | 5,795,000  |                                   |       |  |  |  |  |  |  |  |  |
|       |                                                                                                                                                   |                                                                                         |                                                                    | (5) Regular Coordination Meeting to discuss information sharing criteria and linkage channel clarification (30 participants, 0 Away, 1 days 1 times)                                | National                                                         | Formal communication channel Established                               | Functioning of communication channel Established | N                     |                                             | 1,345,000<br>(9000* (30 - 0 ) *1 + 0 * 3 * 30000 + 0 * 95000 + 1 * 250000 (True) + 30 * 1 * (15000True + 10000True) + 30 * 2500True) * 1 + 0 + 0     | 1 Meeting : Per diem = 9000 Participants = 30 Days = 1, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Diseminating costs = 0                                                                                                 |      | -    | 1,345,000  | -    | -     | -    | -    | -    | 1,345,000  |                                   |       |  |  |  |  |  |  |  |  |
| 2     | To conduct public health emergency response or exercise including all public health security agencies to test the efficiency of the agreement/MOU | MOHS/ Ministry of Defense/ Ministry of Home affairs/ MSWRR and other related Ministries |                                                                    | (1) Table-Top Exercise or Simulation exercise (50 participants, 20 Away, 2 days, 1 time per year)                                                                                   | National                                                         | Number of exercises done                                               | Participation and interest                       | N                     |                                             | 8,165,000<br>(9000* (50 - 20 ) *2 + 20 * 4 * 30000 + 20 * 95000 + 2 * 250000 (True) + 50 * 2 * (15000True + 10000True) + 50 * 2500True) * 1 + 0 + 0  | 1 Meeting : Per diem = 9000 Participants = 50 Days = 2, Participants away = 20 Days away = 4 Dien away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Diseminating costs = 0  |      | -    | 8,165,000  | -    | -     | -    | -    | -    | 8,165,000  |                                   |       |  |  |  |  |  |  |  |  |
| 3     | Development of SOPs for better co-ordination and risk assessment/ response to biological events                                                   | MOHS/MoA- LU/ Ministry of Defense/ Ministry of Home affairs/ MSWRR                      | CBRM plan                                                          | (1) Workshop for development of SOPs for Co-ordination mechanism for coordination and assessment/response to risks to biological events (50 participants, 20 Away, 2 days, 2 times) | National                                                         | SoP Drafted                                                            | Participation and interest                       | N                     |                                             | 7,965,000<br>(9000* (50 - 20 ) *2 + 20 * 4 * 30000 + 20 * 95000 + 2 * 250000 (True) + 50 * 2 * (15000True + 10000True) + 50 * 2500True) * 1 + 0 + 0  | 1 Workshop : Per diem = 9000 Participants = 50 Days = 2, Participants away = 20 Days away = 4 Dien away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Diseminating costs = 0 |      | -    | 15,930,000 | -    | -     | -    | -    | -    | 15,930,000 |                                   |       |  |  |  |  |  |  |  |  |
|       |                                                                                                                                                   |                                                                                         |                                                                    | (2) Workshop to finalize Draft SOP for Co-ordination mechanism and response (50 participants, 20 Away, 2 days, 2 times)                                                             | National                                                         | SoPs Finalized                                                         |                                                  | N                     |                                             | 7,965,000<br>(9000* (50 - 20 ) *2 + 20 * 4 * 30000 + 20 * 95000 + 2 * 250000 (True) + 50 * 2 * (15000True + 10000True) + 50 * 2500True) * 1 + 0 + 0  | 1 Workshop : Per diem = 9000 Participants = 50 Days = 2, Participants away = 20 Days away = 4 Dien away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Diseminating costs = 0 |      | -    | 7,965,000  | -    | -     | -    | -    | -    | 7,965,000  |                                   |       |  |  |  |  |  |  |  |  |
|       |                                                                                                                                                   |                                                                                         |                                                                    | (3) Workshop for dissemination of finalized SOP to related ministries and stakeholders (80 participants, 40 Away, 1 day, 1 times)                                                   | National                                                         | SoP dissemination workshop done                                        |                                                  | N                     |                                             | 10,210,000<br>(9000* (80 - 40 ) *1 + 40 * 3 * 30000 + 40 * 95000 + 1 * 250000 (True) + 80 * 1 * (15000True + 10000True) + 80 * 2500True) * 1 + 0 + 0 | 1 Workshop : Per diem = 9000 Participants = 80 Days = 1, Participants away = 40 Days away = 3 Dien away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Diseminating costs = 0 |      | -    | 10,210,000 | -    | -     | -    | -    | -    | 10,210,000 |                                   |       |  |  |  |  |  |  |  |  |
| TOTAL |                                                                                                                                                   |                                                                                         |                                                                    |                                                                                                                                                                                     |                                                                  |                                                                        |                                                  |                       |                                             |                                                                                                                                                      |                                                                                                                                                                                                                                                                         |      |      |            |      |       |      |      |      |            |                                   |       |  |  |  |  |  |  |  |  |



|   |                                                                                                                                               |                                                                  |                                                                                            |                                                                                                                                                                              |          |                               |                                    |   |           |                                                                                                                                            |                                                                                                                                                                                                                                                                         |   |   |   |   |           |           |           |            |
|---|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------------------|------------------------------------|---|-----------|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|---|-----------|-----------|-----------|------------|
| 4 | <b>Co-ordinating meetings</b> between civil and military organizations for information sharing and co-ordinated response for public emergency | MOHS/MoA-LU/ Ministry of Defense/ Ministry of Home affairs/ MSWR | Civil Military Co-ordination meeting regarding Disasters management (2 times already done) | (1) Annual Civil Military Co-ordination and evaluation meeting regarding Disasters management, preparedness and Response (50 participants, 20 Away, 2 day, 1 times per year) | National | Number of Annual Meeting done | Commitments, Supports and interest | N | 8,065,000 | $(9000 * (50 - 20) * 2 + 20 * 4 * 30000 + 20 * 95000 + 2 * 250000) (True) + 50 * 2 * (15000True + 10000True) + 50 * 2500True) * 1 + 0 + 0$ | 1 Meeting : Per diem = 9000 Participants = 50 Days = 2, Participants away = 20 Days away = 4 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0 | 1 | 1 | 1 | 1 | 8,065,000 | 8,065,000 | 8,065,000 | 32,260,000 |
|---|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------------------|------------------------------------|---|-----------|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|---|-----------|-----------|-----------|------------|



## RESPONSE

General Objective: To establish a functional system and mechanism for effective multi-sectoral national and international response to all public health events.

| GOAL                |                                                                                  | Medical Countermeasures and Personnel Deployment                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                |                                                                                                                                                                                                                                                             |                                                                  |                                                              |                                                                                                                           |                      |                                             |                                   |                        |           |      |            |            |      |                                               |            |
|---------------------|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|----------------------|---------------------------------------------|-----------------------------------|------------------------|-----------|------|------------|------------|------|-----------------------------------------------|------------|
| TECHNICAL AREA      |                                                                                  | Respond 4                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                | Capacity to Activate Emergency Operations                                                                                                                                                                                                                   |                                                                  |                                                              |                                                                                                                           |                      |                                             |                                   |                        |           |      |            |            |      | Total Estimated cost (USD)                    |            |
| JEE Indicator       |                                                                                  | R.4.1                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                |                                                                                                                                                                                                                                                             |                                                                  |                                                              |                                                                                                                           |                      |                                             |                                   |                        |           |      |            |            |      | 475,046.67                                    |            |
| JEE Scores          |                                                                                  | 1                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                |                                                                                                                                                                                                                                                             |                                                                  |                                                              |                                                                                                                           |                      |                                             |                                   |                        |           |      |            |            |      | Total Estimated cost (USD)                    |            |
| JEE recommendations |                                                                                  | * Develop a national plan for identifying procedures and decision making related to sending and receiving medical countermeasures during public health emergencies<br>* Improving access to in-place stockpiles of countermeasures matching the risks that you foresee<br>* Develop a national plan for identifying procedures and decision making related to sending and receiving health personnel during public health emergencies |                                                                                                |                                                                                                                                                                                                                                                             |                                                                  |                                                              |                                                                                                                           |                      |                                             |                                   |                        |           |      |            |            |      | Total Estimated cost (Local currency) (Kyats) |            |
| Objective           |                                                                                  | To strengthen procedures and decision-making criteria for requesting and sending medical countermeasures and health personnel during public health emergencies<br>To promote capacity for storage and stockpiling of medicines and medical equipments                                                                                                                                                                                 |                                                                                                |                                                                                                                                                                                                                                                             |                                                                  |                                                              |                                                                                                                           |                      |                                             |                                   |                        |           |      |            |            |      | Total cost per year of implementation         |            |
|                     |                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                |                                                                                                                                                                                                                                                             |                                                                  |                                                              |                                                                                                                           |                      |                                             |                                   |                        |           |      |            |            |      | Total cost Year in Local Currency             |            |
| No                  | Summary of Planned Activities at National Level (Strategic actions)              | "Responsible authority(s) for implementation including budget line holder"                                                                                                                                                                                                                                                                                                                                                            | Related existing plan/framework/Programme or ongoing activities                                | "Detailed activities (input description for costing)"                                                                                                                                                                                                       | Where is the action to be implemented (National or sub-national) | "Output indicators (Monitoring and Evaluation)"              | Comments or Potential challenges                                                                                          | Existing budget(y/n) | Existing budget source (government, donor?) | "Estimated cost (Local currency)" | Year of implementation |           |      |            |            |      | TOTAL                                         |            |
|                     |                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                |                                                                                                                                                                                                                                                             |                                                                  |                                                              |                                                                                                                           |                      |                                             |                                   | 2 2 2 2 2              | 2 2 2 2 2 | 2018 | 2019       | 2020       | 2021 | 2022                                          |            |
| 1                   | Develop National SOPs for receiving/sending mechanism of medical countermeasures | MOHS (FDA,MS)/MMC/ MOFA/ MOC/ LVBD- MoAU/ MOPF including custom/ Immigration/ ministry of border affairs/ MOD                                                                                                                                                                                                                                                                                                                         | Routine registration and permission for receiving donation (For ordinary operation procedures) | (1) Internal meeting/ workshops with multi-sectoral approaches and participation to develop and finalization of Receiving/Sending Mechanism/SOP (draft) of Medical Counter Measures with WHO technical assistance (50 participant, 20 Away, 2 day, 2 times) | National                                                         | Draft national SOP for receiving/sending mechanism finalized | (1) No existing SOP<br>(2) No documented procedures for receiving/sending medical countermeasures in emergency conditions | N                    |                                             | 8,165,000                         | 1                      | 1         | -    | 8,165,000  | 8,165,000  | -    | -                                             | 16,330,000 |
|                     |                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                | (2) Hiring International Consultant to develop Mechanism/SOP for sending or receiving of medical countermeasures during a public health emergency (1 International Consultant, 10 days)                                                                     | National                                                         | SOPs drafted                                                 |                                                                                                                           | N                    |                                             | 10,573,200                        | 1                      | 1         | -    | 10,573,200 | 10,573,200 | -    | -                                             | 21,146,400 |

|                             |                                                                               |                                                                                                                                                                                                                                                                  |                                                                                                                                                                    |                                                                                                 |                                                                                                                            |   |             |                                                                                                                                      |                                                                                                                                                                                                                                                                                             |                                                                                                       |   |   |            |             |           |             |
|-----------------------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|---|-------------|--------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|---|---|------------|-------------|-----------|-------------|
|                             |                                                                               | (3) <b>Table-top exercises to demonstrate sending or receiving of medical countermeasures during a public health emergency</b> for management level (50 participants, 20 Away, 2 days 1 times per 2 years)                                                       | National                                                                                                                                                           | Number of exercise done, sending or receiving of medical counter-measures mechanism experienced | Need more practices and communication                                                                                      | N | 8,265,000   | (9000* (50 - 20) *2 + 20 * 4 * 30000 + 20 * 95000 + 2 * 250000 (True) +50 * 2 * ( 15000True + 10000True) + 50 * 2500True)* 1 + 0 + 0 | 1 Meeting : Per diem = 9000 Participants = 50 Days = 2, Participants away = 20 Days away = 4 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0                     | 1                                                                                                     | 1 | - | -          | 8,265,000   | 8,265,000 | 16,530,000  |
|                             |                                                                               | (4) <b>Rountine Formal exercise or simulation for sending/receiving of medical countermeasures</b> during a public health emergency for functional level (50 participants, 20 Away, 2 days 1 times per 2 years)                                                  | National                                                                                                                                                           | Number of exercise done, sending or receiving of medical counter-measures mechanism experienced | Need more practices and communication                                                                                      | N | 8,265,000   | (9000* (50 - 20) *2 + 20 * 4 * 30000 + 20 * 95000 + 2 * 250000 (True) +50 * 2 * ( 15000True + 10000True) + 50 * 2500True)* 1 + 0 + 0 | 1Workshop : Per diem = 9000 Participants = 50 Days = 2, Participants away = 20 Days away = 4 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0                     | 1                                                                                                     | 1 | - | -          | 8,265,000   | 8,265,000 | 16,530,000  |
| 2                           | Medical Depots construction for receiving/ sending and storing                | MOHS/ MO-Construction<br><br>(1) Construction of Medical Depot to keep and store Stockpiles of commodities and supplies for readiness of stock at temporary location of <b>Nay-pyitaw, Mandalay, Yangon and Patheiri</b>                                         | National & sub-national                                                                                                                                            | 4 Medical Depots in central and rakhine, ayeyarwady, Shan/ Mandalay constructed                 | Budget Approval, Technical Challenges for Disaster resilience structure design                                             | N | 150,000,000 |                                                                                                                                      |                                                                                                                                                                                                                                                                                             | 4                                                                                                     |   |   | -          | 600,000,000 | -         | 600,000,000 |
| <b>IEEE Indicator</b>       |                                                                               |                                                                                                                                                                                                                                                                  | <b>R.4.2</b>                                                                                                                                                       |                                                                                                 |                                                                                                                            |   |             |                                                                                                                                      |                                                                                                                                                                                                                                                                                             | <b>System is in place for sending and receiving health personnel during a public health emergency</b> |   |   |            |             |           |             |
| <b>IEEE Scores</b>          |                                                                               |                                                                                                                                                                                                                                                                  | <b>1</b>                                                                                                                                                           |                                                                                                 |                                                                                                                            |   |             |                                                                                                                                      |                                                                                                                                                                                                                                                                                             |                                                                                                       |   |   |            |             |           |             |
| <b>IEEE recommendations</b> |                                                                               |                                                                                                                                                                                                                                                                  | * Develop a national plan for identifying procedures and decision making related to sending and receiving medical countermeasures during public health emergencies |                                                                                                 |                                                                                                                            |   |             |                                                                                                                                      |                                                                                                                                                                                                                                                                                             |                                                                                                       |   |   |            |             |           |             |
|                             |                                                                               |                                                                                                                                                                                                                                                                  | * Improving access to in-place stockpiles of countermeasures matching the risks that you foresee                                                                   |                                                                                                 |                                                                                                                            |   |             |                                                                                                                                      |                                                                                                                                                                                                                                                                                             |                                                                                                       |   |   |            |             |           |             |
|                             |                                                                               |                                                                                                                                                                                                                                                                  | * Develop a national plan for identifying procedures and decision making related to sending and receiving health personnel during public health emergencies        |                                                                                                 |                                                                                                                            |   |             |                                                                                                                                      |                                                                                                                                                                                                                                                                                             |                                                                                                       |   |   |            |             |           |             |
| <b>Objective</b>            |                                                                               |                                                                                                                                                                                                                                                                  | * To Strengthen implementation in sending and receiving health personnel during the emergency response                                                             |                                                                                                 |                                                                                                                            |   |             |                                                                                                                                      |                                                                                                                                                                                                                                                                                             |                                                                                                       |   |   |            |             |           |             |
| 1                           | Develop national SOPs for receiving/ sending of mechanism of health personnel | MOHS/ MOFA/ MMC/ Immigration/ ministry of border affairs<br>Routine registration and permission for receiving health personnel (for ordinary procedures)<br><b>Mechanism/SOP</b> (draft) with WHO technical assistance (50 participant, 20 Away, 2 day, 2 times) | National                                                                                                                                                           | Draft national SOP for receiving/ sending mechanism                                             | (1) No existing SOP<br>(2) No documented procedures for receiving/ sending medical countermeasures in emergency conditions | N | 8,165,000   | (9000* (50 - 20) *2 + 20 * 4 * 30000 + 20 * 95000 + 2 * 250000 (True) +50 * 2 * ( 15000True + 10000True) + 50 * 2500True)* 1 + 0 + 0 | 1Workshop : Per diem = 9000 Participants = 50 Days = 2, Participants away = 20 Days away = 4 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Print Dis = 200000, Printing costs = 0, Disseminating costs = 0 | 1                                                                                                     | 1 | - | 8,165,000  | 8,165,000   | -         | 16,330,000  |
|                             |                                                                               | (2) Hiring International Consultant to develop <b>Mechanism/SOP for sending or receiving of health personnel</b> during a public health emergency (1 International Consultant, 10 days)                                                                          | National                                                                                                                                                           | SOPs drafted                                                                                    |                                                                                                                            | N | 10,573,200  | 1 * 10 * (238920 + 660000) + 1 * 1584000 = 10573200                                                                                  | Number = 1 ; No of Days : 10 , Per diem = 238920 ; Daily rate = 660000 ; Travel = 1584000                                                                                                                                                                                                   | 1                                                                                                     | 1 | - | 10,573,200 | 10,573,200  | -         | 21,146,400  |

| No | Summary of Planned Activities at National Level (Strategic actions) | "Responsible authority(s) for Implementation including budget line holder" | Related existing plan/ framework / Programme or on going activities | "Detailed activities (input description for costing)" | Where is the action to be implemented (National or sub-national) | "Output Indicators (Monitoring and Evaluation)" | Comments or Potential challenges | Existing budget source (government, donor?) | "Estimated cost (Local currency)" | Total Cost Year in Local Currency |      |      |      |      |       |      |      |      |      |      |       |
|----|---------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------|----------------------------------|---------------------------------------------|-----------------------------------|-----------------------------------|------|------|------|------|-------|------|------|------|------|------|-------|
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | Year of implementation            |      |      |      |      |       | 2018 | 2019 | 2020 | 2021 | 2022 | TOTAL |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | 2023  |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   | 2018                              | 2019 | 2020 | 2021 | 2022 | TOTAL |      |      |      |      |      |       |
|    |                                                                     |                                                                            |                                                                     |                                                       |                                                                  |                                                 |                                  |                                             |                                   |                                   |      |      |      |      |       |      |      |      |      |      |       |

**General Objective:** To establish a functional system and mechanism for effective multi-sectoral national and international response to all public health events.

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| 2 | Availability of Suitable funding to implement national risk communications plan and functions | MOHS/ MS-WRR/ MOI | Budgeting for existing ongoing activities and awareness raising events for advocates | (1) Meetings on Advocacy on government funding and partner funding with Stakeholders (20 participants, 5 Away, 2 times) | National | Funding source | Less awareness for the risk communication sector | N | 1,370,000<br>*1 + 5 * 3 * 30000<br>+ 5 * 95000 + 1 * 250000 ( False) +20<br>* 1 * ( 15000)False<br>+ 10000( True) +<br>20 * 2500( True) * 1<br>+ 0 + 0 | ( 9000* (20 - 5)<br>*1 + 5 * 3 * 30000<br>+ 5 * 95000 + 1 * 250000 ( False) +20<br>* 1 * ( 15000)False<br>+ 10000( True) +<br>20 * 2500( True) * 1<br>+ 0 + 0 | 1 Meeting : Per diem = 9000 Participants = 20 Days = 1, Participants away = 5<br>Days away = 3 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Stationary = 2500, Print Dis = 60000, Printing costs = 0, Disseminating costs = 0 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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[illegible]

| No | Summary of Planned Activities at National Level (Strategic actions) | "Responsible authority(s) for Implementation including budget line holder" | Related existing plan/ framework/ Programme or on going activities | "Detailed activities (input description for costing)" | Where action to be implemented (National or sub-national) | "Output indicators (Monitoring and Evaluation)" | Comments or Potential challenges | Existing budget- gety(n) | Existing budget source (government, donor?) | "Estimated cost (local currency) " | Year of implementation |      | Total Cost Year in Local Currency |      |      |       |  |
|----|---------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------|----------------------------------|--------------------------|---------------------------------------------|------------------------------------|------------------------|------|-----------------------------------|------|------|-------|--|
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 2022 | TOTAL |  |
|    |                                                                     |                                                                            |                                                                    |                                                       |                                                           |                                                 |                                  |                          |                                             |                                    | 2018                   | 2019 | 2020                              | 2021 | 20   |       |  |



## MATRIX FOR THE DEVELOPMENT OF NATIONAL ACTION PLAN FOR HEALTH SECURITY 2018 - 2022

## Other IHR-related hazards and Points of Entry (PoE)

General Objective: To establish and maintain the core capacities at designated points of entry for routine and timely detection and prompt effective response of any potential hazards.

| GOAL           |                                                                                                                                                | Points of Entry (PoE)                                                                                                                                                                     |                                                                                                                                                                                |                                                                  |                                                 |                                                                                                                        |                       |                                             |                                                                                                                                      |                        |            |      |      |                                       | Total Estimated cost (USD)                    |                                   |  |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------|------|------|---------------------------------------|-----------------------------------------------|-----------------------------------|--|
| TECHNICAL AREA |                                                                                                                                                | Other IHR & PoE 1                                                                                                                                                                         |                                                                                                                                                                                | Routine capacities are established at PoE                        |                                                 |                                                                                                                        |                       |                                             |                                                                                                                                      |                        |            |      |      |                                       | Total Estimated cost (USD)                    |                                   |  |
| JEE Indicator  |                                                                                                                                                | PoE.1                                                                                                                                                                                     |                                                                                                                                                                                |                                                                  |                                                 |                                                                                                                        |                       |                                             |                                                                                                                                      |                        |            |      |      |                                       | 3,692,639.83                                  |                                   |  |
| JEE Scores     |                                                                                                                                                | 2                                                                                                                                                                                         |                                                                                                                                                                                |                                                                  |                                                 |                                                                                                                        |                       |                                             |                                                                                                                                      |                        |            |      |      |                                       | Total Estimated cost (Local currency) (Kyats) |                                   |  |
|                |                                                                                                                                                | * Develop and implement an encompassing National Public Health Emergency Contingency Plan for the designated points of entry and link it with the national public health emergency plans. |                                                                                                                                                                                |                                                                  |                                                 |                                                                                                                        |                       |                                             |                                                                                                                                      |                        |            |      |      | Total cost per year of implementation |                                               | 5,760,518,140                     |  |
|                |                                                                                                                                                | * Human resource capacity building and plan including for the animal health staff and staff at the ground crossings.                                                                      |                                                                                                                                                                                |                                                                  |                                                 |                                                                                                                        |                       |                                             |                                                                                                                                      |                        |            |      |      |                                       |                                               |                                   |  |
|                |                                                                                                                                                | * Conduct a formal evaluation for the PoEs core capacities and response to likely public health emergencies.                                                                              |                                                                                                                                                                                |                                                                  |                                                 |                                                                                                                        |                       |                                             |                                                                                                                                      |                        |            |      |      |                                       |                                               |                                   |  |
|                |                                                                                                                                                | * Establish/improve measures for vector control, safe environment and animal quarantine at the designated PoEs                                                                            |                                                                                                                                                                                |                                                                  |                                                 |                                                                                                                        |                       |                                             |                                                                                                                                      |                        |            |      |      |                                       |                                               |                                   |  |
| Objective      |                                                                                                                                                | To strengthen surveillance, detection, management of response at PoE                                                                                                                      |                                                                                                                                                                                |                                                                  |                                                 |                                                                                                                        |                       |                                             |                                                                                                                                      |                        |            |      |      |                                       |                                               |                                   |  |
| No             | Summary of Planned Activities at National Level (Strategic actions)                                                                            | Related existing plan/framework/Programme or ongoing activities                                                                                                                           | "Detailed activities (input description for costing)"                                                                                                                          | Where is the action to be implemented (National or sub-national) | "Output indicators (Monitoring and Evaluation)" | Comments or Potential challenges                                                                                       | Existing budget (y/n) | Existing budget source (government, donor?) | "Estimated cost (Local currency)"                                                                                                    | Year of implementation |            |      |      |                                       |                                               | Total Cost Year in Local Currency |  |
|                |                                                                                                                                                |                                                                                                                                                                                           |                                                                                                                                                                                |                                                                  |                                                 |                                                                                                                        |                       |                                             |                                                                                                                                      | 2018                   | 2019       | 2020 | 2021 | 2022                                  | TOTAL                                         |                                   |  |
| 1              | To Review and revise <b>Current PoEs Plan and SOP in multi-sectoral aspects</b> to create linkage to the National Public Health Emergency Plan | Disease specific plan and SOP for PHEIC (eg: Ebola, Zika, Influenza)                                                                                                                      | (1) Hire National consultants for 2 weeks to review and provide draft recommendation on <b>Existing PoE plans and SOP/training modules</b> (3 National Consultant for 14 days) | National                                                         | All hazard plan and SOP for PoE drafted         | Intra- and Inter-departmental collaboration of all stakeholders at PoE especially in ground crossing to implement plan | N                     |                                             | 1* 14* (80000 + 200000) + 1* 0 = 3920000                                                                                             | 3                      | 11,760,000 | -    | -    | -                                     | 11,760,000                                    |                                   |  |
|                |                                                                                                                                                |                                                                                                                                                                                           | (2) Workshop on <b>Agreement and finalization of drafted PoE plan, SOPs and Training Modules</b> with national stakeholders (50 participants, 25 Away, 1 day, 1 times)         | National                                                         | Draft SOP developed                             | Conflict of roles in stakeholders at POEs in SOPs                                                                      | N                     |                                             | (9000* (50 - 25) ) *1 + 25 * 3* 30000 + 25 * 95000 + 1* 250000 ( True) +50 *1* (15000True + 10000True) + 50 * 2500True ) * 1 + 0 + 0 | 1                      | 9,175,000  | -    | -    | -                                     | 9,175,000                                     |                                   |  |
|                |                                                                                                                                                |                                                                                                                                                                                           | (3) Trainings and Simulation exercises on revised Plans and SOPs for staff from the designated PoE (50 participants, 25 Away, 2 day, 1 times)                                  | National                                                         | Number of trainings trained -                   | Multi sector Involvement by functional level of stakeholders                                                           | N                     |                                             | (9000* (50 - 25) ) *2 + 25 * 4* 30000 + 25 * 95000 + 2* 250000 ( True) +50 *2* (15000True + 10000True) + 50 * 2500True ) * 1 + 0 + 0 | 1                      | 11,650,000 | -    | -    | -                                     | 11,650,000                                    |                                   |  |



# NATIONAL ACTION PLAN FOR HEALTH SECURITY (NAPHS)

| No | Summary of Planned Activities at National Level (Strategic actions)                                                                                 | "Responsible authority(s) for implementation including budget line holder" | Related existing plan/ Framework or on going activities                                                                                                                                                                                                            | "Detailed activities (input description for costing)"                                                                                                                                                                                                                                                                                                                                | Where is the action to be implemented (National or sub-national) | "Output Indicators (Monitoring and Evaluation)"                                                                          | Comments or Potential challenges                                                                                                                                                                                                                                       | Existing budget (y/n) | Existing budget source (government, donor?) | "Estimated cost (Local currency)"                                                          | Year of implementation | Total Cost Year in Local Currency |             |             |             |             |       |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------------------|--------------------------------------------------------------------------------------------|------------------------|-----------------------------------|-------------|-------------|-------------|-------------|-------|
|    |                                                                                                                                                     |                                                                            |                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                      |                                                                  |                                                                                                                          |                                                                                                                                                                                                                                                                        |                       |                                             |                                                                                            |                        | 2018                              | 2019        | 2020        | 2021        | 2022        | TOTAL |
|    |                                                                                                                                                     |                                                                            |                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                      |                                                                  |                                                                                                                          |                                                                                                                                                                                                                                                                        |                       |                                             |                                                                                            |                        |                                   |             |             |             |             |       |
|    |                                                                                                                                                     |                                                                            |                                                                                                                                                                                                                                                                    | (4) Monitoring the implementation of POE plans by using SOP through evaluation and supervisory visit at all existing designated PoE (2 persons from Central, 2 days per visit, 1 visit per year for existing 9 designated PoE)                                                                                                                                                       | National/ sub-national                                           | Number of supervision visit (1 time every year)                                                                          | Availability of time for supervision visit                                                                                                                                                                                                                             | N                     |                                             | 630,000<br><br>2 * 2* 31000 + 2 * 95000 + 1* 132000<br>* 2 + 2 * 1* 26000 = 630000         | 9 9 9 9                | -                                 | 5,670,000   | 5,670,000   | 5,670,000   | 22,680,000  |       |
|    |                                                                                                                                                     |                                                                            |                                                                                                                                                                                                                                                                    | (5) Monitor the implementation of POE plans by using SOP through evaluation and supervisory visit upcoming International Airports & Seaports (2 persons from Central, 2 days per visit, 1 visit per year for upcoming 10 designated PoE)                                                                                                                                             |                                                                  |                                                                                                                          |                                                                                                                                                                                                                                                                        | N                     |                                             | 630,000<br><br>2 * 2* 31000 + 2 * 95000 + 1* 132000<br>* 2 + 2 * 1* 26000 = 630000         | 10 10 10 10            | -                                 | 6,300,000   | 6,300,000   | 6,300,000   | 25,200,000  |       |
| 2  | To strengthen existing organisational set up and procurements for Quarantine service (Both human and animal sectors) especially in Ground Crossings | MOHS, MOALI                                                                | Organization set up for IHR, DOPH (Existing 5 Ground crossing designated PoEs and upcoming International Airports and Seaports (5 International Airports: Hantharwady, Myeik, Dawei/ and 3 International Airports- Yangon, Mandalay, Naypyitaw, 1 seaport- Yangon) | (1) HR recruitment for 5 ground crossing designated PoE<br>- 1 medical officer, 3 BHS, 1 driver, 1 Ambulance, + 1 Veterinary, 2 Veterinary assistant for Existing 5 designated Ground Crossing PoEs:<br>(5 ground crossing - Muse, Tachileik, Myawaddy, Kyaukse, Mese/Three Pagoda Pass, Myeik, Dawei/ and 3 International Airports- Yangon, Mandalay, Naypyitaw, 1 seaport- Yangon) | National                                                         | At least 60% of the vacancy in existing organization set up especially in ground crossing filled with new assigned staff | (1) There is no accommodation, transportation and incentive for the staffs especially working in remote border areas.<br>(2) Security is also a major challenge in some areas.<br>(3) Also need to recruit the staffs who are willing to work in ground crossing PoEs. | Y                     | Government                                  | 21,480,000<br><br>1* 275000*12+3*218000*12+1* 275000*12+2* 218000*12 +1*150000*12=21480000 | 5 5 5 5                | -                                 | 107,400,000 | 107,400,000 | 107,400,000 | 429,600,000 |       |
|    |                                                                                                                                                     |                                                                            |                                                                                                                                                                                                                                                                    | (2) HR recruitment for upcoming 10 designated PoE<br>1 medical officer, 3 BHS, 1 driver, 1 Ambulance, + 1 Veterinary, 2 Veterinary assistant (5 International Airports: Hantharwady, Myeik, Dawei/ and 5 International Seaports: Dawei, Myeik, Kawtharung, Kyaukse, Phyu, Sittwe)                                                                                                    | National                                                         |                                                                                                                          | Time for opening and functioning of upcoming PoEs<br>Organization Set up and Budget Approval                                                                                                                                                                           | N                     |                                             | 21,480,000<br><br>1* 275000*12+3*218000*12+1* 275000*12+2* 218000*12 +1*150000*12=21480000 | 10 10 10 10            | -                                 | 214,800,000 | 214,800,000 | 214,800,000 | 859,200,000 |       |

## NATIONAL ACTION PLAN FOR HEALTH SECURITY (NAPHS)

|  |  |  |                                                                                                                                                                                                                                                                                             |                          |                                                                 |                                                               |   |     |                                                                                        |                                       |    |    |    |    |               |             |             |            |               |
|--|--|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------------------------------------------------------|---------------------------------------------------------------|---|-----|----------------------------------------------------------------------------------------|---------------------------------------|----|----|----|----|---------------|-------------|-------------|------------|---------------|
|  |  |  | (3) Mobilization of existing workforces from other PoE or from Rapid Response team, state/region in Public Health Emergency situation. Meeting with stakeholders from PoE and states/regions, and workforce development unit (2 staff, 7 days, for 5 Ground Crossing PoE, 2 times per year) | National and Subnational | Number and frequency of visit by mobilized staff for PHE events | Administrative arrangement to mobilize staff from other units | N |     | 1,730,000<br>2 * 7* 31000 + 2 * 95000 + 1 * 132000<br>= 1730000 (for 2 times per year) | No cost related activity in some PoEs | 10 | 10 | 10 | 10 | -             | 17,300,000  | 17,300,000  | 17,300,000 | 69,200,000    |
|  |  |  | (4) Living expense for staffs who will be mobilized to Public Health Emergency situation at 5 Ground Crossing (2 staff, 7 days, for 5 Ground Crossing PoE, 2 times per year)<br><i>(This cost is included in above mobilization activities PoE 1,2,3)</i>                                   | National and Subnational | Number and frequency of visit by mobilized staff for PHE events | Administrative arrangement to mobilize staff from other units | N |     | 1,730,000<br>2 * 7* 31000 + 2 * 95000 + 1 * 132000<br>= 1730000 (for 2 times per year) |                                       | 10 | 10 | 10 | 10 |               |             |             |            | -             |
|  |  |  | (5) Procurement of Motobike for Transportation/movement by staffs (54 motorcycles) (ADB will support only 36)                                                                                                                                                                               | National and Subnational | Number of motor bikes procured (1 for each staff)               | Procurement and bidding process can take long period          | Y | ADB | 2100000*54                                                                             |                                       | 54 |    |    |    | -             | -           | 113,400,000 | -          | 113,400,000   |
|  |  |  | (6) Transportation expense for staffs (for fuel for 54 motorcycles) (0.5 Gallon per Motorcycle per day for 365 days - year)                                                                                                                                                                 | National and Subnational | Number of fuel procured and used (1 for each staff)             | Procurement and bidding process can take long period          | Y | ADB | 34,492,500<br>0.5*365*54*3500                                                          |                                       | 1  | 1  | 1  | 1  | -             | -           | 34,492,500  | 34,492,500 | 103,477,500   |
|  |  |  | (7) Establish quarantine facilities 1. Isolation room at 5 Ground Crossing PoE                                                                                                                                                                                                              | National and Subnational | Number of quarantine facilities at POEs (1 for every PoE)       | Commitment from POEs authorities                              | N |     | 50,000,000                                                                             |                                       | 5  |    |    |    | -             | 250,000,000 | -           | -          | 250,000,000   |
|  |  |  | (8) Procurement of Screening tools (8 Infrared Thermal Scanner, 57 Non-contact thermal gun)                                                                                                                                                                                                 | National and Subnational | Appropriate screening tool for                                  | Procurement and bidding process can take long period          | N |     | 407,695,000                                                                            |                                       | 1  | 1  | 1  | 1  | 407,695,000   | -           | 407,695,000 | -          | 1,223,085,000 |
|  |  |  | (9) PoE Kit (PPE, RRT Kit (Including disinfectant and Emergency medicine, ...) 30 PPE sets for 1 PoE per Year, 2 RRT Kits for 1 PoE per Year                                                                                                                                                | National and Subnational | Adequate logistics supply                                       | Procurement and bidding process can take long period          | N |     | 64,600,000                                                                             |                                       | 1  | 1  | 1  | 1  | 64,600,000    | 64,600,000  | 64,600,000  | 64,600,000 | 323,000,000   |
|  |  |  | (10) Patient Referral - Procurement of ambulances for all 5 designated Ground Crossings                                                                                                                                                                                                     | National and Subnational | Number of ambulances procured                                   | Procurement and bidding process can take long period          | N |     | 1*250000000                                                                            |                                       | 5  |    |    |    | 1,250,000,000 | -           | -           | -          | 1,250,000,000 |
|  |  |  | (11) Patient Referral - Procurement of Speed Boat for Yng Int Seaport                                                                                                                                                                                                                       | National and Subnational | Number of ambulances procured                                   | Procurement and bidding process can take long period          | N |     | 171,480,000                                                                            |                                       | 1  |    |    |    | 171,480,000   | -           | -           | -          | 171,480,000   |

# NATIONAL ACTION PLAN FOR HEALTH SECURITY (NAPHS)

| No | Summary of Planned Activities at National Level (Strategic actions) | "Responsible authority(s) for Implementation including budget line holder" | Related existing plan/Programme or on going activities | "Detailed activities (input description for costing)"                                                                                                                                                                                                              | Where is the action to be implemented (National or sub-national) | "Output Indicators (Monitoring and Evaluation)" | Comments or Potential challenges                     | Existing budget (y/n) | Existing budget source (government, donor?) | "Estimated cost (Local currency)" | Year of implementation |      |      |      |      |            |            |            |            |            |             |       | Total Cost Year in Local Currency |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|    |                                                                     |                                                                            |                                                        |                                                                                                                                                                                                                                                                    |                                                                  |                                                 |                                                      |                       |                                             |                                   |                        |      |      |      |      |            |            |            |            |            |             |       |                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                        |                                                                                                                                                                                                                                                                    |                                                                  |                                                 |                                                      |                       |                                             |                                   | 2018                   | 2019 | 2020 | 2021 | 2022 | TOTAL      | 2018       | 2019       | 2020       | 2021       | 2022        | TOTAL |                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|    |                                                                     |                                                                            |                                                        | (12) Patient Referral - Fuel cost for ambulance and Speed Boat (a) for 5 ambulances - Fuel 60 Gal per month for 1 ambulance, 1 year for all 5 designated Ground Crossings (b) 1 Speed Boat for Ygn Int Seaport- Fuel 200 Gal per month for 1 speed boat for 1 year | National and Sub-national                                        | Number of ambulances procured                   | Procurement and bidding process can take long period | N                     |                                             | 21,000,000                        | 1                      | 1    | 1    | 1    | 1    | 21,000,000 | 21,000,000 | 21,000,000 | 21,000,000 | 21,000,000 | 105,000,000 |       |                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| JEE Indicator       | PoE.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Effective Public Health Response at Points of Entry |                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                 |                           |                                                                                                                          |                                                                                                                                                                                                   |   |         |           |                                                                                                                                                        |                                                                                                                                                                                                                                                                                                               |    |    |    |    |         |           |           |           |            |
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| JEE Scores          | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                     |                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                 |                           |                                                                                                                          |                                                                                                                                                                                                   |   |         |           |                                                                                                                                                        |                                                                                                                                                                                                                                                                                                               |    |    |    |    |         |           |           |           |            |
| JEE recommendations | * Develop and implement an encompassing National Public Health Emergency Contingency Plan for the designated points of entry and link it with the national public health emergency plans.<br>* Human resource capacity building and plan including for the animal health staff and staff at the ground crossings.<br>* Conduct a formal evaluation for the PoEs core capacities and response to likely public health emergencies.<br>* Establish/improve measures for vector control, safe environment and animal quarantine at the designated PoEs |                                                     |                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                 |                           |                                                                                                                          |                                                                                                                                                                                                   |   |         |           |                                                                                                                                                        |                                                                                                                                                                                                                                                                                                               |    |    |    |    |         |           |           |           |            |
| Objective           | * To strengthen function at PoE management and treatment for public health risks and events                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                     |                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                 |                           |                                                                                                                          |                                                                                                                                                                                                   |   |         |           |                                                                                                                                                        |                                                                                                                                                                                                                                                                                                               |    |    |    |    |         |           |           |           |            |
| 1                   | Advocacy and awareness raising with other IHR implementing partners from other Ministries to improve measures for vector control, safe environment and food safety                                                                                                                                                                                                                                                                                                                                                                                  | MOHS and All Stakeholders                           | Monthly CME, Annual Evaluation meeting, Stakeholders meeting               | (1) Advocacy meeting on improvement of measures for vector control, safe environment and food safety at each PoE with all stakeholders (50 participant, 25 Away, 1 day)<br><br>(2) Conduct <b>monthly joint vector control program</b> in respective PoE especially in international airports and seaport through collaboration with Vector Borne Diseases Control (VBDC) Unit and stakeholders | Sub-national              | Number of advocacy meeting conducted                                                                                     | Involvement of stakeholders                                                                                                                                                                       | Y | ADB     | 9,175,000 | (9000* (50 - 25 )<br>*1 + 25 * 3 * 30000<br>+ 25 * 95000 + 1 * 250000 (True) +50<br>*1* (15000True<br>+ 10000True) +<br>50 * 2500True ) * 1<br>+ 0 + 0 | 1 Meeting : Per diem = 9000 Participants = 50 Days = 1, Participants away = 25 Days away = 3 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Extra pp = 50000, Stationary = 2500, Venue = 250000, Print Dis = 200000, Printing costs = 0, Disseminating costs = 0 | 1  | 1  | 1  | 1  | 1       | 9,175,000 | 9,175,000 | 9,175,000 | 45,875,000 |
|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                     |                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                 | Sub-national              | Monthly vector control program in all PoEs.                                                                              | Some limitation in seaports and ground crossing because of surrounding environment. And also need to develop inter- and intra-departmental collaboration for vector control and safe environment. | N |         |           | -                                                                                                                                                      | No cost related activity in some PoEs internal coordination among other relevant department, MoHS                                                                                                                                                                                                             | 12 | 12 | 12 | 12 | -       | -         | -         | -         | -          |
|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                     |                                                                            | (3) Conduct <b>Health education Workshop</b> for all food handlers for food safety and Random inspection of food stalls especially in Airports and Seaports (50 participants, 3 Away, 1 day, 2 times per year, in each PoEs)                                                                                                                                                                    | National and Sub-national | Number of HE activities done, inspections conducted                                                                      | Participation of food handlers in HE and inspection                                                                                                                                               | N |         | 2,427,000 | (9000* (50 - 2 )<br>*1 + 2 * 3 * 30000<br>+ 2 * 95000 + 1 * 250000 (True) +50<br>*1* (15000True<br>+ 10000True) +<br>50 * 2500True ) * 1<br>+ 0 + 0    | 1 Training : Per diem = 9000 Participants = 50 Days = 1, Participants away = 2 Days away = 3 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0                                       | 4  | 4  | 4  | 4  | 4       | 9,708,000 | 9,708,000 | 9,708,000 | 48,540,000 |
|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                     |                                                                            | (4) Provide and distribute <b>pamphlets and poster for vector control and hand washing</b> at all PoEs (200 pamphlets and 100 posters each year)                                                                                                                                                                                                                                                | National and Sub-national | Number of IEC distributed                                                                                                | Interest from public about IECs and with involvement of HLCPU in development process                                                                                                              | N |         | 250,000   |                                                                                                                                                        |                                                                                                                                                                                                                                                                                                               | 1  | 1  | 1  | 1  | 250,000 | 250,000   | 250,000   | 1,250,000 |            |
| 2                   | To strengthen <b>coordination mechanism for Public Health Emergency response with neighbouring countries</b> especially at cross border PoE                                                                                                                                                                                                                                                                                                                                                                                                         | MOHS/WHO/ OIE/MBDS/ Stakeholders                    | Commitment for cross border coordination mechanism with Thailand and China | (1) Cross border Meeting 6 monthly Coordination and evaluation meeting to strengthen Coordination Mechanism (no cost) (30 participant, 10 Away, 1 day, 2 times per year)<br><br><b><i>This activity will be incorporated with activity line D.2.1.2.3 under Real Time Surveillance</i></b>                                                                                                      | National and sub-national | Number of Meetings done, MOU or official commitment for cross-border collaboration mechanism with neighboring countries. | Need to strengthen political commitment for PoE issue. Commitments among Countries                                                                                                                | Y | WHO/ADB | 4,805,000 | (9000* (30 - 10 )<br>*1 + 10 * 3 * 30000<br>+ 10 * 95000 + 1 * 250000 (True) +30<br>*1* (15000True<br>+ 10000True) +<br>30 * 2500True ) * 1<br>+ 0 + 0 | 1 Meeting : Per diem = 9000 Participants = 30 Days = 1, Participants away = 10 Days away = 3 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Extra pp = 50000, Stationary = 2500, Venue = 250000, Print Dis = 200000, Printing costs = 0, Disseminating costs = 0 | 1  | 1  | 1  | 1  | 1       |           |           |           | -          |

## NATIONAL ACTION PLAN FOR HEALTH SECURITY (NAPHS)

| No | Summary of Planned Activities at National Level (Strategic actions) | "Responsible authority(s) for Implementation including budget line holder" | Related existing plan/ framework / Programme or on going activities | "Detailed activities (input description for costing)"                                                                                                                                                                                                                                                                                                                  | Where is the action to be implemented (National or sub-national) | "Output Indicators (Monitor- ing and Evaluation)" | Comments or Potential challenges                                                  | Existing budget (y/n) | Existing budget source (government, donor?) | "Estimated cost (Local currency)" | Year of implementation | Total Cost Year in Local Currency |           |            |            |            |            |
|----|---------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------|---------------------------------------------|-----------------------------------|------------------------|-----------------------------------|-----------|------------|------------|------------|------------|
|    |                                                                     |                                                                            |                                                                     |                                                                                                                                                                                                                                                                                                                                                                        |                                                                  |                                                   |                                                                                   |                       |                                             |                                   |                        |                                   |           |            |            |            |            |
|    |                                                                     |                                                                            |                                                                     |                                                                                                                                                                                                                                                                                                                                                                        |                                                                  |                                                   |                                                                                   |                       |                                             |                                   |                        | 2018                              | 2019      | 2020       | 2021       | 2022       | TOTAL      |
|    |                                                                     |                                                                            |                                                                     | (2) Conduct workshop on <b>Table Top Exercise and Simulation Exercise for Joint or Parallel Outbreak</b> Investigation between two countries that sharing cross border (30 participants 15 Away, 2 days, 1 times per year)                                                                                                                                             | Sub-national                                                     | Number of TTX conducted                           | Involvement of stakeholders commitment for P&E issue. Commitments among Countries | N                     |                                             | 7,270,000                         | 1 1 1 1 1              | 7,270,000                         | 7,270,000 | 7,270,000  | 7,270,000  | 36,350,000 |            |
|    |                                                                     |                                                                            |                                                                     | (3) Meeting on Strengthen Cross border information sharing network by MBDS and GMS mechanism to do Focal person assigned, reporting form update and cost for information sharing (30 participants 10 Away, 2 days, 1 times per year) <b><i>This activity will be incorporated with activity line D.2.1.2.3 &amp; 2 under Real Time Surveillance and POE 2.2.1.</i></b> | National and sub-national                                        | Timeliness and completeness of reporting          | Involvement from cross border health staff                                        | N                     |                                             | 4,805,000                         | 1 1 1 1 1              |                                   |           |            |            | -          |            |
|    |                                                                     |                                                                            |                                                                     | (4) Hire <b>International consultants</b> to develop MOU with border sharing countries (Thailand, China, India) (2 international Consultants, 7 days) <b><i>Reviewing activities are included in National Legislation activity P.1.1.2.1</i></b>                                                                                                                       | National                                                         | MOU from MOHS developed                           | Interest for cross border MOU form MOHS                                           | N                     |                                             | 7,876,440                         | 2                      |                                   |           | 15,752,880 | -          | 15,752,880 |            |
|    |                                                                     |                                                                            |                                                                     | (5) Hire <b>National consultants</b> to develop MOU with border sharing countries (Thailand, China, India) (2 National Consultants, 7 days)                                                                                                                                                                                                                            | National                                                         | MOU from MOHS developed                           | Interest for cross border MOU form MOHS                                           | N                     |                                             | 14,560,000                        | 2                      |                                   |           | -          | 29,120,000 | -          | 29,120,000 |
|    |                                                                     |                                                                            |                                                                     | (6) Meeting on <b>Singing ceremony</b> for MOU with Neighboring countrie (30 participants, 10 Away, 1 day)                                                                                                                                                                                                                                                             | National                                                         | MOU signed from MOHS                              | Interest for cross border MOU form MOHS                                           | N                     |                                             | 4,805,000                         | 3                      |                                   |           | -          | 14,415,000 | -          | 14,415,000 |

|   |                                                                                                                                                 |          |                                                               |                                                                                                                                                                                        |          |                                                      |                                                                                                                                  |   |     |            |                                                                                                                         |                                                                                                                                                                                                                                                                                                                    |   |   |   |   |  |   |           |            |           |           |           |            |            |   |            |
|---|-------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|---|-----|------------|-------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|---|--|---|-----------|------------|-----------|-----------|-----------|------------|------------|---|------------|
| 3 | To develop <b>evaluation tools</b> to conduct formal evaluation and to publish the effectiveness in responding to Public Health Events annually | MOHS/WHO | JEE assessment tool, Annual IHR core capacity assessment tool | (1) Hire International consultant for 2 weeks to develop evaluation tools effective operation of PoE for response (2 international Consultants, 14 days)                               | National | Annual Evaluation mechanism at all PoE drafted       | Some Challenges still present for formal evaluation mechanism for all ground crossings before strengthening organisation set up. | Y | ADB | 14,168,880 | $1 * 14 * (238920 + 660000) + 1 * 1584000 = 14168880$                                                                   | Number = 1 ; No of Days : 14 , Per diem = 238920 ; Daily rate = 660000 ; Travel = 1584000                                                                                                                                                                                                                          | 2 |   |   |   |  |   | -         | 28,337,760 | -         | -         | -         | 28,337,760 | -          | - | 28,337,760 |
|   |                                                                                                                                                 |          |                                                               | (2) Meeting to <b>endorse draft evaluation tools</b> for finalization (50 participant, 25 Away, 2 days, 1 times)                                                                       | National | Evaluation tools developed                           | Involvement of stakeholders                                                                                                      | Y | ADB | 11,650,000 | $(9000 * (50 - 25) + 25 * 95000 + 2 * 250000) (True) + 50 * 2 * (15000True + 10000True) + 50 * 25000True ) * 1 + 0 + 0$ | 1 Meeting : Per diem = 9000 Participants away = 50 Days = 2, Participants away = 25 Days away = 4 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Extra pp = 50000, Stationary = 2500, Venue = 250000, Print Dis = 200000, Printing costs = 0, Disseminating costs = 0 | 1 |   |   |   |  |   | -         | 11,650,000 | -         | -         | -         | 11,650,000 | -          | - | 11,650,000 |
|   |                                                                                                                                                 |          |                                                               | (3) M & E visit by assigning the team for supervision and evaluation after dissemination of evaluation tools (2 staffs from M&E Unit, 2 days, at 9 designated PoE after action review) | National | 1 After action review report published in every year | Commitment and involvement of stakeholders in AAR                                                                                | Y | ADB | 630,000    | $2 * 2 * 31000 + 2 * 95000 + 1 * 132000 + 2 * 2 * 1 * 26000 = 630000$                                                   |                                                                                                                                                                                                                                                                                                                    | 9 | 9 | 9 | 9 |  | - | 5,670,000 | 5,670,000  | 5,670,000 | 5,670,000 | 5,670,000 | 5,670,000  | 22,680,000 |   |            |

## MATRIX FOR THE DEVELOPMENT OF NATIONAL ACTION PLAN FOR HEALTH SECURITY 2018 - 2022

## Other IHR-related hazards and Points of Entry (PoE)

General Objective: To establish and maintain the core capacities at designated points of entry for routine and timely detection and prompt effective response of any potential hazards.

| GOAL                |                                                                                                                                              | Chemical Events                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                  |                                                                                                                                                                 |                                                                                                                                         |                         |                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                       |                        |           |      |      |      |   | Total Estimated cost (USD)                   |   |           |  |       |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------------------------|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------|------|------|------|---|----------------------------------------------|---|-----------|--|-------|
| TECHNICAL AREA      |                                                                                                                                              | Mechanisms are established and functioning for detecting and responding to chemical events or emergencies                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                  |                                                                                                                                                                 |                                                                                                                                         |                         |                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                       |                        |           |      |      |      |   |                                              |   |           |  |       |
| JEE Indicator       | CE.1                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                  |                                                                                                                                                                 |                                                                                                                                         |                         |                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                       |                        |           |      |      |      |   |                                              |   |           |  |       |
| JEE Scores          | 1                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                  |                                                                                                                                                                 |                                                                                                                                         |                         |                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                       |                        |           |      |      |      |   | 22,585,312.48                                |   |           |  |       |
| JEE recommendations |                                                                                                                                              | * Finalize and approve the national (CBRN) contingency plan, which defines authorities, roles, and responsibilities across the whole of government for chemical event surveillance, alert, and response<br>* Develop SOPs for chemical event detection, assessment, and response operations<br>* Develop an integrated national chemical surveillance system, which incorporates lab analysis and centralized reporting of chemical events to the national PHEOC |                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                  |                                                                                                                                                                 |                                                                                                                                         |                         |                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                       |                        |           |      |      |      |   | Total Estimated cost (Local currency) (Nyas) |   |           |  |       |
| Objective           |                                                                                                                                              | To enable early detection of early warning Chemical events or emergencies through Multi-sectoral Involvements                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                  |                                                                                                                                                                 |                                                                                                                                         |                         |                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                       |                        |           |      |      |      |   | Total cost per year of implementation        |   |           |  |       |
| No                  | Summary of Planned Activities at National Level (Strategic actions)                                                                          | "Responsible authority(s) for implementation including budget line holder"                                                                                                                                                                                                                                                                                                                                                                                       | Related existing plan/ framework / Programme or on going activities                                                                                                                                                                                                        | "Detailed activities (input description for costing)"                                                                                                                                                                                                                                                                                                                                                                                     | Where is the action to be implemented (National or sub-national) | "Output Indicators (Monitor- ing and Evalua- tion)"                                                                                                             | Comments or Potential chal- lenges                                                                                                      | Exist- ing budget (y/n) | Exist- ing budget (gov- ern- ment, donor?) | " Estimated cost (Local cur- rency) "                                                                                                                                                                                                                                                                                                                                                                                                 | Year of implementation |           |      |      |      |   | Total Cost Year in Local Currency            |   |           |  | TOTAL |
|                     |                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                  |                                                                                                                                                                 |                                                                                                                                         |                         |                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2018                   | 2019      | 2020 | 2021 | 2022 |   |                                              |   |           |  |       |
| 1                   | Develop SOP (guide- lines or manuals) on the surveillance and assessment of chem- ical events, intoxication and poisoning and to be in place | Laborato- ries-MoHS (OHEH, DMR, FDA, MHL, CEU (Budget line), MoD (DSMRC), MoHA (CEO Lab, CID Lab), MoN- REC Lab, Ministry of Industry, Min- istry of Education Labs                                                                                                                                                                                                                                                                                              | OHEH, DMR, DS- MRC Laboratories are detecting environmental chemical events at hoc and project basis (not regu- larly).<br>FDA is detecting chemicals in food and water somewhat regular basis.<br>OHEH, DMR, DSMRC, CEO, CID labs are detecting chemical events in human. | (1) Mid level meeting to develop guidelines or manuals for detection of important and relevant chemical events for laboratory methods, standardizing of laboratory methods, sharing of equipment, supply of reagents, consumables and sampling materials and logistics<br>- proposing authority/ institute/ agency with primary responsibility for laboratory standardization and coordination.<br>(25 persons, 10 Away, 2 days, 1 times) | National                                                         | SOP drafted<br>Inventory Mapping done, Primary responsible agency for laboratory coordination pointed out, standard- ization and authoriza- tion of result done | Need interna- tional consultant and/or national advisor (2 person for laboratory guideline , 1 person for inven- tory mapping software) | N                       |                                            | (9000* (25 - 10) * 2 + 10 * 4 * 30000 + 10 * 95000 + 2 * 250000 (True) + 25 * 2 * (15000True + 10000True) + 25 * 25000True) * 1 + 0 + 0<br>1 Meeting : Per diem = 9000 Participants = 25 Days = 2, Participants away = 10 Days away = 4 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Station- ary = 2500, Venue = 25000, Print Di = 50000, Printing costs = 0, Disseminating costs = 0 | 4,382,500              | 4,382,500 | -    | -    | -    | - | 4,382,500                                    | - | 4,382,500 |  |       |



# NATIONAL ACTION PLAN FOR HEALTH SECURITY (NAPHS)

|  |                                                                                                                                                               |                                                                                                                                                                                                                                                                   |                                                                                                                                                                        |          |                                                                                                                                                            |                                             |   |                                                                                                                                          |                                                                                                                                         |                                                                                                                                                                                                                                                                                            |   |  |  |  |  |  |           |  |           |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|--|--|--|--|--|-----------|--|-----------|
|  | Laboratory: MoHS (OHEH, DMR, FDA, NHL, CEU (Budget line)), MoD (DSMRC), MoHA (CEO Lab, CID Lab), MoNREC Lab, Ministry of Industry, Ministry of Education Labs | OHEH, DMR, DS-MRC Laboratories are detecting environmental chemical events at hoc and project basis (not regularly). FDA is detecting chemicals in food and water somewhat regular basis. OHEH, DMR, DSMRC, CEO, CID labs are detecting chemical events in human. | (2) Hiring of international consultant and national advisor (laboratory guideline 2 persons, inventory mapping software 1 person) (2 International Consultant, 3 days) | National | SOP finalized Inventory Mapping done, Primary responsible agency for laboratory coordination pointed out, standardization and authorization of result done | Multisectoral participation and commitments | N | 4,280,760 + 660,000 + 1 * 158,400 = 4,807,660                                                                                            | 1 * 3 * (238920 + 238920) = 1584000                                                                                                     | Number = 1; No of Days : 3, Per diem = 238920; Daily rate = 660000; Travel = 1584000                                                                                                                                                                                                       | 2 |  |  |  |  |  | 8,561,520 |  | 8,561,520 |
|  | Laboratory: MoHS (OHEH, DMR, FDA, NHL, CEU (Budget line)), MoD (DSMRC), MoHA (CEO Lab, CID Lab), MoNREC Lab, Ministry of Industry, Ministry of Education Labs | OHEH, DMR, DS-MRC Laboratories are detecting environmental chemical events at hoc and project basis (not regularly). FDA is detecting chemicals in food and water somewhat regular basis. OHEH, DMR, DSMRC, CEO, CID labs are detecting chemical events in human. | (3) Hiring of international consultant and national advisor (laboratory guideline 2 persons, inventory mapping software 1 person) (1 National Consultant, 7 days)      | National | SOP finalized Inventory Mapping done, Primary responsible agency for laboratory coordination pointed out, standardization and authorization of result done | Multisectoral participation and commitments | N | 1,960,000 (200,000) + 1 * 0 = 1960000                                                                                                    | 1 * 7 * (80000 + 200000) + 1 * 0 = 1960000                                                                                              | Number = 1; No of Days : 7, Per diem = 80000; Daily rate = 200000; Travel = 0                                                                                                                                                                                                              | 1 |  |  |  |  |  | 1,960,000 |  | 1,960,000 |
|  | Laboratory: MoHS (OHEH, DMR, FDA, NHL, CEU (Budget line)), MoD (DSMRC), MoHA (CEO Lab, CID Lab), MoNREC Lab, Ministry of Industry, Ministry of Education Labs | OHEH, DMR, DS-MRC Laboratories are detecting environmental chemical events at hoc and project basis (not regularly). FDA is detecting chemicals in food and water somewhat regular basis. OHEH, DMR, DSMRC, CEO, CID labs are detecting chemical events in human. | (4) Mid level meeting to finalize guidelines or manuals for detection of important and relevant chemical events (25 persons, 10 Away, 2 days, 2 times)                 | National | SOP finalized Inventory Mapping done, Primary responsible agency for laboratory coordination pointed out, standardization and authorization of result done | Multisectoral participation and commitments | N | 4,382,500 (25 - 10) * 2 + 10 * 4 * 30000 + 10 * 95000 + 2 * 250000 (True) + 25 * 2 * (15000True + 10000True) + 25 * 2500True * 1 + 0 + 0 | (9000 * (25 - 10) * 2 + 10 * 4 * 30000 + 10 * 95000 + 2 * 250000 (True) + 25 * 2 * (15000True + 10000True) + 25 * 2500True) * 1 + 0 + 0 | 1 Meeting : Per diem = 9000 Participants = 25 Days = 2, Participants away = 10 Days away = 4 Diem away = 30000 Travel costs participants away = 95000; Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Print Dis = 50000, Printing costs = 0, Disseminating costs = 0 | 2 |  |  |  |  |  | 8,765,000 |  | 8,765,000 |

[illegible]

|   |                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                        |          |                                                                                                                                                                                                          |                                                                                             |   |  |           |                                                                                                                                        |                                                                                                                                                                                                                                                                                            |           |   |   |   |           |   |   |           |
|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---|--|-----------|----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---|---|---|-----------|---|---|-----------|
|   | Laboratory:<br>MoHS (OHEH,<br>DMR, FDA, NHL,<br>CEU (Budget<br>line)), MoD<br>(DSMRC), MoHA<br>(CEO Lab, CID<br>Lab), MoNREC<br>Lab, Ministry of<br>Industry, Minis-<br>try of Education<br>Labs | OHEH, DMR, DS-<br>MRC Laboratories<br>are detecting<br>environmental<br>chemical events<br>at hoc and project<br>basis (not regu-<br>larly).<br>FDA is detecting<br>chemicals in<br>food and water<br>somewhat regular<br>basis.<br>OHEH, DMR,<br>DSMRC, CEO, CID<br>labs are detecting<br>chemical events in<br>human. | (2) <b>Finalization Meeting on Setting up a dedicated Laboratory</b> for detection of chemical events or emergencies.<br><br>(25 persons, 10 Away, 2 days, 2 times)                                                                                                                                                                    | National | Finalized laboratory organization set up<br><br>Number of Meetings done for setting up dedicated Lab                                                                                                     | Human resource, Financial resource, Approval                                                | N |  | 4,382,500 | (9000* (25 - 10) * 2 + 10 * 4 * 30000 + 10 * 95000 + 2 * 250000 (True) + 25 * 2 * (15000True + 10000True) + 25 * 2500True) * 1 + 0 + 0 | 1 Meeting : Per diem = 9000 Participants = 25 Days = 2, Participants away = 10 Days away = 4 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Print Dis = 50000, Printing costs = 0, Disseminating costs = 0 | -         | - | - | - | 8,765,000 | - | - | 8,765,000 |
| 3 | Develop SOP (guide-lines or manuals) on the surveillance and assessment of chemical events, intoxication and poisoning and to be in place)- Mechanism for reporting and data sharing System      | Surveillance system: MoHS (National PHEOC, OHEH, CEU (Budget line), MoD, MoHA, MoNREC, Development Committees, Ministry of Transport, Ministry of Industry, Ministry of Information                                                                                                                                     | Data reporting is being done but not on regular basis.<br><br>(1) Mid level meeting to develop <b>Guidelines or Manuals or Mechanism for reporting and data sharing</b> system; and, proposing authority/ institute/ agency with primary responsibility for chemicals and surveillance/ monitoring.<br>(25 persons x 2 days x 1 times) | National | SOP for surveillance system and real time environmental monitoring system (sample collection, sample transport, real time monitoring, data sharing, data storage, data analysis, data reporting) drafted | Need interna-tional consultant and/ or national advisor (Data information system 2 persons) | N |  | 4,382,500 | (9000* (25 - 10) * 2 + 10 * 4 * 30000 + 10 * 95000 + 2 * 250000 (True) + 25 * 2 * (15000True + 10000True) + 25 * 2500True) * 1 + 0 + 0 | 1 Meeting : Per diem = 9000 Participants = 25 Days = 2, Participants away = 10 Days away = 4 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Print Dis = 50000, Printing costs = 0, Disseminating costs = 0 | 4,382,500 | - | - | - | -         | - | - | 4,382,500 |
|   | Laboratory:<br>MoHS (OHEH,<br>DMR, FDA, NHL,<br>CEU (Budget<br>line)), MoD<br>(DSMRC), MoHA<br>(CEO Lab, CID<br>Lab), MoNREC<br>Lab, Ministry of<br>Industry, Minis-<br>try of Education<br>Labs | OHEH, DMR, DS-<br>MRC Laboratories<br>are detecting<br>environmental<br>chemical events<br>at hoc and project<br>basis (not regu-<br>larly).<br>FDA is detecting<br>chemicals in<br>food and water<br>somewhat regular<br>basis.<br>OHEH, DMR,<br>DSMRC, CEO, CID<br>labs are detecting<br>chemical events in<br>human. | (2) <b>Hiring of international consultants for the development</b><br><br>(2 persons for Data information system)<br><br>(2 International Consultant, 3 days.)                                                                                                                                                                         | National |                                                                                                                                                                                                          | N                                                                                           |   |  | 4,280,760 | 1 * 3 * (238920 + 660000) + 1 * 1584000 = 4280760                                                                                      | Number = 1 ; No of Days : 3, Per diem = 238920 ; Daily rate = 660000 ; Travel = 1584000                                                                                                                                                                                                    | 8,561,520 | - | - | - | -         | - | - | 8,561,520 |

# NATIONAL ACTION PLAN FOR HEALTH SECURITY (NAPHS)

| No | Summary of Planned Activities at National Level (Strategic actions) | "Responsible authority(s) for implementation including budget line holder" | Related existing plan/ framework/ or on going activities | "Detailed activities (input description for costing)"                                                                                                                                                                                                                                                                                                                 | Where is the action to be implemented (National or sub-national) | "Output indicators (Monitoring and Evaluation)"                                                                       | Comments or Potential challenges                                                      | Existing budget (y/n) | Existing budget source (gov-ement, donor?) | "Estimated cost (Local currency)"                                                                                                      | Total Cost Year in Local Currency |            |      |      |      |            |
|----|---------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------------|------|------|------|------------|
|    |                                                                     |                                                                            |                                                          |                                                                                                                                                                                                                                                                                                                                                                       |                                                                  |                                                                                                                       |                                                                                       |                       |                                            |                                                                                                                                        | Year of implementation            |            |      |      |      |            |
|    |                                                                     |                                                                            |                                                          |                                                                                                                                                                                                                                                                                                                                                                       |                                                                  |                                                                                                                       |                                                                                       |                       |                                            |                                                                                                                                        | 2018                              | 2019       | 2020 | 2021 | 2022 | TOTAL      |
|    |                                                                     |                                                                            |                                                          | (3) Visit to related agencies for desk review and assessment of current situation. (3 person, 7 days per visit for 15 agencies, 1 times)                                                                                                                                                                                                                              | Sub-national                                                     | Get related information. Obtain coordination. Increased number and motivation of participants in subsequent meetings. | Travel allowances                                                                     | N                     |                                            | 3 * 7 * 31000 + 3 * 2,042,000 95000 + 1 * 132000 * 7 + 7 * 1 * 26000 = 2042000                                                         | 30,630,000                        | -          | -    | -    | -    | 30,630,000 |
|    |                                                                     |                                                                            |                                                          | (4) Mid level workshop to finalize Guidelines or Manuals or Mechanism for reporting and data sharing system; and - proposing authority/ institute/ agency with primary responsibility for chemicals and surveillance/ monitoring. - Planning for meeting of higher level authorities who can make policy. (25 persons, 10 Away, 2 days, 2 times)                      | National                                                         | Finalized SOP for surveillance system. Meeting of higher level authorities done.                                      | Need internal consultant and/ or national advisor (Data information system 2 persons) | N                     |                                            | (9000* (25 - 10) * 2 + 10 * 4 * 30000 + 10 * 95000 + 2 * 250000 (True) + 25 * 2 * (15000True + 10000True) + 25 * 2500True) * 1 + 0 + 0 | 4,382,500                         | 8,765,000  | -    | -    | -    | 8,765,000  |
|    |                                                                     |                                                                            |                                                          | (5) Conducted Visit to related agencies for field testing of Guideline/Manual/SOPs (3 person, 7 days per visit for 15 agencies, 2 times)                                                                                                                                                                                                                              | Sub-national                                                     | Get related information. Obtain coordination. Increased number and motivation of participants in subsequent meetings. | Travel allowances                                                                     | N                     |                                            | 3 * 7 * 31000 + 3 * 2,042,000 95000 + 1 * 132000 * 7 + 7 * 1 * 26000 = 3799000                                                         | -                                 | 61,260,000 | -    | -    | -    | 61,260,000 |
|    |                                                                     |                                                                            |                                                          | (6) Awareness and Dissemination Meeting (Higher level persons) on finalized Guidelines or Manuals or Mechanism for reporting and data sharing system; and - proposing authority/ institute/ agency with primary responsibility for chemicals and surveillance/ monitoring with higher level authorities who can make decision. (25 persons, 10 Away, 3 days, 1 times) | National                                                         | SOP is approved. MOU is signed.                                                                                       | Repeated communication and revision.                                                  | N                     |                                            | (9000* (25 - 10) * 3 + 10 * 5 * 30000 + 10 * 95000 + 3 * 250000 (True) + 25 * 3 * (15000True + 10000True) + 25 * 2500True) * 1 + 0 + 0 | -                                 | 5,692,500  | -    | -    | -    | 5,692,500  |

|   |                                                                                                                                                                                                                                     |                                                                                                                     |                                                 |                                                                                                             |              |                                                                        |                                                       |   |               |  |  |  |  |  |  |   |   |   |   |                 |               |               |               |                |
|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------|--------------|------------------------------------------------------------------------|-------------------------------------------------------|---|---------------|--|--|--|--|--|--|---|---|---|---|-----------------|---------------|---------------|---------------|----------------|
| 4 | Develop SOP (guidelines or manuals) on the surveillance and assessment of chemical events, intoxication and poisoning) and to be in place - Establishment of laboratory with necessary equipments, testkits, reagents and supplies; | MoHS, MoD, MoHA, MoNREC, Ministry of Industry, Development Committees, Ministry of Transport, Ministry of Education | Upgrading of existing Laboratory and capacities | (1) Procurement of water, soil and air quality testing equipment, FTIR, LCMS, HPLC, AAS, UV and accessories | National     | Respective Laboratories become operational to detect targeted chemical | Human resource, Financial resource (budget), Approval | N | 4,612,422,600 |  |  |  |  |  |  | 1 | 1 | 1 | 1 | - 4,612,422,600 | 4,612,422,600 | 4,612,422,600 | 4,612,422,600 | 18,449,690,400 |
|   |                                                                                                                                                                                                                                     |                                                                                                                     |                                                 | (2) Procurement of GC, GC/MSMS, IPC OES and ICP MS                                                          | National     |                                                                        | Human resource, Financial resource (budget), Approval | N | 4,452,492,426 |  |  |  |  |  |  | 1 |   |   |   | - 4,452,492,426 | -             | -             | -             | 4,452,492,426  |
|   |                                                                                                                                                                                                                                     |                                                                                                                     |                                                 | (3) Procurement of reagents and supplies for water and soil testing                                         | National     |                                                                        | Human resource, Financial resource (budget), Approval | N | 22,724,880    |  |  |  |  |  |  | 1 |   |   |   | - 22,724,880    | -             | -             | -             | 22,724,880     |
|   |                                                                                                                                                                                                                                     |                                                                                                                     |                                                 | (4) Construction of Infrastructure for focal laboratory.                                                    | National     |                                                                        | Human resource, Financial resource (budget), Approval | N | 78,000,000    |  |  |  |  |  |  | 1 |   |   |   | - 78,000,000    | -             | -             | -             | 78,000,000     |
|   |                                                                                                                                                                                                                                     | Respective Departments (EU Budget line)                                                                             | Emergency Preparedness and Response             | (5) Procurement of water and soil quality testing equipment and accessories for focal laboratory            | Sub-national | Respective Laboratories become operational to detect targeted chemical | Human resource, Financial resource (budget), Approval | N | 504,119,600   |  |  |  |  |  |  | 1 | 1 | 1 | 1 | - 504,119,600   | 504,119,600   | 504,119,600   | 504,119,600   | 2,016,478,400  |
|   |                                                                                                                                                                                                                                     |                                                                                                                     |                                                 | (6) Procurement of water and soil quality testing reagents and supplies for focal laboratory                | National     |                                                                        | Human resource, Financial resource (budget), Approval | N | 45,449,760    |  |  |  |  |  |  | 1 |   |   |   | - 45,449,760    | -             | -             | -             | 45,449,760     |
|   |                                                                                                                                                                                                                                     |                                                                                                                     |                                                 | (7) Procurement of air quality testing equipment and HPLCs for focal laboratory                             | National     |                                                                        | Human resource, Financial resource (budget), Approval | N | 2,208,091,700 |  |  |  |  |  |  | 1 |   |   |   | - 2,208,091,700 | -             | -             | -             | 2,208,091,700  |
|   |                                                                                                                                                                                                                                     |                                                                                                                     |                                                 | (8) Procurement of GCs and ICPs for focal laboratory                                                        | National     |                                                                        | Human resource, Financial resource (budget), Approval | N | 2,213,166,350 |  |  |  |  |  |  | 1 |   |   |   | - 2,213,166,350 | -             | -             | -             | 2,213,166,350  |
|   |                                                                                                                                                                                                                                     |                                                                                                                     |                                                 | (9) Procurement of reagents and supplies for focal laboratory                                               | National     |                                                                        | Human resource, Financial resource (budget), Approval | N | 101,061,212   |  |  |  |  |  |  | 1 | 1 | 1 | 1 | - 101,061,212   | 101,061,212   | 101,061,212   | 101,061,212   | 404,244,848    |

## NATIONAL ACTION PLAN FOR HEALTH SECURITY (NAPHS)

| No | Summary of Planned Activities at National Level (Strategic actions)                                                                                                                | "Responsible authority(s) for Implementa-tion including budget line holder" | Related existing plan/ frame-work / Programme or on going activities | "Detailed activities (Input description for costing)"                                                                                                                                                                                                                                                   | Where is the action to be imple-mented (National or sub-na-tional) | "Output indicators (Monitor-ing and Evalua-tion)"        | Comments or Potential chal-lenges                                           | Existing budget (y/n) | Exist-ing budget (gov-ernment, donor?) | " Estimated cost (Local cur-rency) " |                                                                                                                                             | Year of implementation                     | Total Cost Year in Local Currency |             |             |             |             |             |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------|----------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-----------------------------------|-------------|-------------|-------------|-------------|-------------|
|    |                                                                                                                                                                                    |                                                                             |                                                                      |                                                                                                                                                                                                                                                                                                         |                                                                    |                                                          |                                                                             |                       |                                        |                                      |                                                                                                                                             |                                            | 2018                              | 2019        | 2020        | 2021        | 2022        | TOTAL       |
|    |                                                                                                                                                                                    |                                                                             |                                                                      |                                                                                                                                                                                                                                                                                                         |                                                                    |                                                          |                                                                             |                       |                                        |                                      |                                                                                                                                             |                                            |                                   |             |             |             |             |             |
| 5  | Develop SOP (guide-lines or manuals) on the surveillance and assessment of chemical events, intoxication and poisoning) and to be in place - capacity building and Human Resources |                                                                             |                                                                      | (1) HR (10 persons) for focal laboratory<br>(2) Medecin : 500000 : 48 Months, 8 infirmier : 400000 : 48 Months                                                                                                                                                                                          | National                                                           |                                                          | Human resource, Financial resource (budget), Ap-proval                      | N                     |                                        | 50 400,000                           | 2 Medecin : 500000 : 12 Months<br><br>8 infirmier : 400000 : 12 Months                                                                      | 1 1 1 1<br>0 0 0 0<br>1 1 2 2<br>8 9 0 1 2 | -                                 | 50,400,000  | 50,400,000  | 50,400,000  | 50,400,000  | 201,600,000 |
|    |                                                                                                                                                                                    |                                                                             |                                                                      | (2) International consultant for focal laboratories (2 presons, 30 days)                                                                                                                                                                                                                                | National                                                           |                                                          | Human resource, Financial resource (budget), Ap-proval                      | N                     |                                        | 57 103,200                           | 2 * 30 * (238920 + 660000) + 2 * 1584000 = 57103200                                                                                         | 1                                          | -                                 | 57,103,200  | -           | -           | -           | 57,103,200  |
|    |                                                                                                                                                                                    |                                                                             |                                                                      | (3) Local consultant for focal laboratory (2 persons, 240 days)                                                                                                                                                                                                                                         | National                                                           |                                                          | Human resource, Financial resource (budget), Ap-proval                      | N                     |                                        | 2,886,000                            | 2 * 240 * (3000 + 3000) + 2 * 3000 = 2886000                                                                                                | 1 1 1 1                                    | -                                 | 2,886,000   | 2,886,000   | 2,886,000   | 2,886,000   | 11,544,000  |
|    |                                                                                                                                                                                    | CEU                                                                         | Yearly Budgeting for regular activities                              | (4) Advocacy Meeting on budget planning for regents, consumables, sampling materials, logistics (transport, communication), maintenance; and data reporting and sharing system in order to be in place for all actions by using the action plans and resources (70 participant, 30 Away, 1 day, 1 time) | National                                                           | Budget ap-proved from Parliament Number of Meetings done | Approval                                                                    | N                     |                                        | 8,085,000                            | (9000* 70 - 30) * 1 + 30 * 3 * 30000 + 30 * 95000 + 1 * 250000 ( True) + 70 * 1 * (15000True + 10000True) + 70 * 2500True ) * 1 + 0 + 0     | 1 1 1                                      | 8,085,000                         | 8,085,000   | -           | -           | -           | 24,255,000  |
|    |                                                                                                                                                                                    | Respective Departments and Focal De-partment                                |                                                                      | (5) Specialized Laboratory Training for relevant staffs (35 persons, 10 Away, 30 days x 2 times)                                                                                                                                                                                                        | National                                                           | Number of staff trained to perform test runs for 2 times | Need international consultant/ trainer (Labora-tory expert x 4 persons)     | N                     |                                        | 51 137,500                           | (9000* 35 - 10) * 30 + 10 * 32 * 30000 + 10 * 95000 + 30 * 250000 ( True) + 35 * 30 * (15000True + 10000True) + 35 * 2500True ) * 1 + 0 + 0 | 2 2 2                                      | -                                 | 102,275,000 | 102,275,000 | 102,275,000 | 102,275,000 | 306,825,000 |
|    |                                                                                                                                                                                    | Respective Departments and Focal De-partment                                |                                                                      | (6) Surveillance Training for relevant staffs (25 persons, 10 Away, 5 days x 2 times)                                                                                                                                                                                                                   | National                                                           | Number of staff trained to perform data main-agement     | Need international consultant/ trainer (Surveil-lance 2, Data management 1) | N                     |                                        | 8,162,500                            | (9000* 25 - 10) * 5 + 10 * 7 * 30000 + 10 * 95000 + 5 * 250000 ( True) + 25 * 5 * (15000True + 10000True) + 25 * 2500True ) * 1 + 0 + 0     | 2 2 2 2                                    | -                                 | 16,325,000  | 16,325,000  | 16,325,000  | 16,325,000  | 65,300,000  |

# NATIONAL ACTION PLAN FOR HEALTH SECURITY (NAPHS)

|   |                                                                                                                                          |                                                                                                                                                                                                                                                |                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |                                                                      |                                                                                                       |   |                                                                                                                                           |                                                                                                                                                   |                                                                                                                                                                                                                                                                                           |   |            |            |   |   |   |            |
|---|------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------------|------------|---|---|---|------------|
| 6 | Develop SOP (guide-lines or manuals) on the management of chemical events, intoxication and poisoning and to be in place: CBRNE Response | MoHA (Myanmar Police Force, Myanmar Fire Department Task Force, General Administration Department), MoHS, MoD, MoNREC, MoSWRR, Private Health Care Centres and NGOs (including Myanmar Red Cross Association) which have ambulance facilities. | Got some training and exercises for response. Some facilities at Myanmar Fire Department Task Force and MoD for response. Ambulance facilities are present but not well coordinated. | (1) Mid level meeting and workshop to develop guide-lines or manuals on SOP for management of important and relevant chemical events for CBRN response and including training modules;<br>- including mapping, collaboration, standardizing of management methods, sharing of facilities, equipment, supply, and logistics and,<br>- proposing authority/ institute/ agency with primary responsibility for chemical response in different situation. (25 persons, 10 Away, 2 days, 6 times)       | National | SOP drafted, Inventory Mapping, Point out primary responsible agency | Need international consultant/ trainer (CBRN response 2 persons, inventory mapping software 1 person) | N | 4,382,500 * 2 + 10 * 4 * 30000 + 10 * 95000 + 2 * 25000 (True) + 25 * 2 * (15000True) + 10000True + 10000True + 25 * 2500True * 1 + 0 + 0 | (9000* (25 - 10) * 2 + 10 * 4 * 30000 + 10 * 95000 + 2 * 25000 (True) + 25 * 2 * (15000True) + 10000True) + 10000True + 25 * 2500True * 1 + 0 + 0 | 1 Meeting : Per diem = 9000 Participants = 25 Days = 2, Participants away = 10 Days away = 4 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 25000, Print Dis = 50000, Printing costs = 0, Disseminating costs = 0 | 3 | 13,147,500 | 13,147,500 | - | - | - | 26,295,000 |
|   |                                                                                                                                          |                                                                                                                                                                                                                                                |                                                                                                                                                                                      | (2) Mid level meeting to finalize guidelines or manuals or SOP for management of important and relevant chemical events for CBRN response;<br>- including mapping, collaboration, standardizing of management methods, sharing of facilities, equipment, supply, and logistics and,<br>- proposing authority/ institute/ agency with primary responsibility for chemical response in different situation. (25 persons, 10 Away, 2 days, 1 times)                                                   | National | SOP is finalized. Meeting of higher level authorities is done.       | Need international consultant/ trainer (CBRN response 2 persons, inventory mapping software 1 person) | N | 4,382,500 * 2 + 10 * 4 * 30000 + 10 * 95000 + 2 * 25000 (True) + 25 * 2 * (15000True) + 10000True + 10000True + 25 * 2500True * 1 + 0 + 0 | (9000* (25 - 10) * 2 + 10 * 4 * 30000 + 10 * 95000 + 2 * 25000 (True) + 25 * 2 * (15000True) + 10000True) + 10000True + 25 * 2500True * 1 + 0 + 0 | 1 Meeting : Per diem = 9000 Participants = 25 Days = 2, Participants away = 10 Days away = 4 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 25000, Print Dis = 50000, Printing costs = 0, Disseminating costs = 0 | 1 | 4,382,500  | 4,382,500  | - | - | - | 4,382,500  |
|   |                                                                                                                                          |                                                                                                                                                                                                                                                |                                                                                                                                                                                      | (3) Awareness and Dissemination Meeting (Higher level Authorities) who can make decision on finalized guidelines or manuals or SOP for management of important and relevant chemical events;<br>- including mapping, collaboration, standardizing of management methods, sharing of facilities, equipment, supply, and logistics and,<br>- proposing authority/ institute/ agency with primary responsibility for chemical response in different situation. (25 persons, 10 Away, 2 days, 1 times) | National | SOP is approved, MOU is signed.                                      | Repeated communication and revision.                                                                  | N | 4,382,500 * 2 + 10 * 4 * 30000 + 10 * 95000 + 2 * 25000 (True) + 25 * 2 * (15000True) + 10000True + 10000True + 25 * 2500True * 1 + 0 + 0 | (9000* (25 - 10) * 2 + 10 * 4 * 30000 + 10 * 95000 + 2 * 25000 (True) + 25 * 2 * (15000True) + 10000True) + 10000True + 25 * 2500True * 1 + 0 + 0 | 1 Meeting : Per diem = 9000 Participants = 25 Days = 2, Participants away = 10 Days away = 4 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 25000, Print Dis = 50000, Printing costs = 0, Disseminating costs = 0 | 1 | 4,382,500  | 4,382,500  | - | - | - | 4,382,500  |



# NATIONAL ACTION PLAN FOR HEALTH SECURITY (NAPHS)

| No | Summary of Planned Activities at National Level (Strategic actions)                                                                         | "Responsible authority(s) for implementation including budget line holder"                                            | Related existing plan/ framework/ Programme or on going activities | "Detailed activities (input description for costing)"                                                                                                                                                                                         | Where action to be implemented (National or sub-national) | "Output indicators (Monitor-Evaluation)"                                       | Comments or Potential challenges                          | Existing budget (y/n) | Existing budget source (gov-ement, donor?) | "Estimated cost (Local currency)"                                                                                                    | Total Cost Year in Local Currency |            |               |      |      |
|----|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------|-----------------------|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------------|---------------|------|------|
|    |                                                                                                                                             |                                                                                                                       |                                                                    |                                                                                                                                                                                                                                               |                                                           |                                                                                |                                                           |                       |                                            |                                                                                                                                      | Year of implementation            |            |               |      |      |
|    |                                                                                                                                             |                                                                                                                       |                                                                    |                                                                                                                                                                                                                                               |                                                           |                                                                                |                                                           |                       |                                            |                                                                                                                                      | 2018                              | 2019       | 2020          | 2021 | 2022 |
|    |                                                                                                                                             |                                                                                                                       |                                                                    |                                                                                                                                                                                                                                               |                                                           |                                                                                |                                                           |                       |                                            |                                                                                                                                      | 2018                              | 2019       | 2020          | 2021 | 2022 |
|    |                                                                                                                                             |                                                                                                                       |                                                                    | (4) Procurement of necessary equipment and accessories for detection and response of CBRN                                                                                                                                                     |                                                           |                                                                                |                                                           | N                     |                                            | 3,361,500,000                                                                                                                        |                                   |            | 3,361,500,000 |      |      |
|    |                                                                                                                                             |                                                                                                                       |                                                                    | (5) Procurement of necessary consumables for detection and response of CBRN                                                                                                                                                                   | Sub-national                                              | Respective department become operational to respond targeted chemical          | To make procurement in time and human resources           | N                     |                                            | 81,000,000                                                                                                                           |                                   |            | 81,000,000    |      |      |
|    |                                                                                                                                             |                                                                                                                       |                                                                    | (6) Advocacy Meeting on budget planning for detection and Emergency response of CBRN (70 participant, 30 Away, 1 day, 1 times)<br><b><u>This activity will be incorporated with other advocacy meetin Budget planning above CE 1.5.4)</u></b> | National                                                  | Budget approved from Parliament                                                |                                                           | N                     |                                            | (9000* (70 - 30) *1 + 30 * 3 * 30000 + 30 * 95000 + 1 * 25000 (True) + 70 * 1 * (15000True + 10000True) + 70 * 2500True) * 1 + 0 + 0 |                                   |            |               |      |      |
|    |                                                                                                                                             |                                                                                                                       |                                                                    | (7) Conduct CBRN Response Training for relevant staff (25 persons, 10 Away, 5 days, 2 times)                                                                                                                                                  | National                                                  | Number trainings and staff trained, CBRN response team formed and coordinated. | Need international consultant/ trainer (CBRN 2)           | N                     |                                            | 8,162,500                                                                                                                            |                                   | 16,325,000 | 16,325,000    |      |      |
|    |                                                                                                                                             |                                                                                                                       |                                                                    | (8) Conduct CBRN Response Simulation Exercise and Drills regularly (25 persons, 10 Away, 5 days, 2 times)                                                                                                                                     | National                                                  | CBRN response team well-coordinated and prepared.                              | Need international consultant/ trainer (CBRN 2)           | N                     |                                            | 8,162,500                                                                                                                            |                                   | 16,325,000 | 16,325,000    |      |      |
| 7  | Develop SOP (guidelines or manuals) on the management of chemical events, intoxication and poisoning and to be in place: Poisoning in human | OHEH, National Poison Control Centre (NPC) at DMR, Poison Treatment Centre (PTC) at WGH, States and Regions Hospitals | Already done some treatment, referral, reporting                   | (1) Mid level meeting to set up organization, draw Poison Diagnosis and Treatment Guideline, and reporting system Poisoning in human including training modules (25 persons, 10 Away, 3 times)                                                | Sub-national                                              |                                                                                | International consultant in poison management (2 persons) | N                     |                                            | 5542500                                                                                                                              |                                   | 16,627,500 | 16,325,000    |      |      |

|  |  |                                                  |                                                                                                                                                                                                                                                                             |              |                                 |                                                           |   |  |                                                                                                                                                        |                                                                                                                                                                                                                                                                                            |    |    |    |    |            |            |            |             |             |
|--|--|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------------------|-----------------------------------------------------------|---|--|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|----|------------|------------|------------|-------------|-------------|
|  |  | Already done some treatment, referral, reporting | (2) <b>Hiring of international consultant</b> for set up organization, draw Poison Diagnosis and Treatment Guideline, and reporting system Poisoning in Human in Human (2 International Consultant, 7 days)                                                                 | National     |                                 |                                                           | N |  | 7,876,440<br>$1^*7 * 238920 + 660000 ) + 1^* 1584000 = 7876440$                                                                                        | Number = 1 ; No of Days : 7 . Per diem = 238920 ; Daily rate = 660000 . Travel = 1584000                                                                                                                                                                                                   | 2  |    |    | -  | 15,752,880 | -          | -          | -           | 15,752,880  |
|  |  |                                                  | (3) Mid level meeting to <b>Finalize setting up organization, draw Poison Diagnosis and Treatment Guideline, and reporting</b> system Poisoning in Human (25 persons, 10 Away, 3 days, 2 times)                                                                             | Sub-national |                                 | International consultant in poison management (2 persons) | N |  | 5542500<br>$9000^* (25 - 10) + 3^* 10^* 5^* 30000 + 10^* 95000 + 3^* 250000 (True) + 25^* 3^* (15000True + 10000True) + 25^* 2500True)^* 1 + 0 + 0$    | 1 Training : Per diem = 9000 Participants = 25 Days = 3, Participants away = 10 Days away = 5 Dien away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0                   | 2  |    |    | -  | 11,085,000 | -          | -          | -           | 11,085,000  |
|  |  |                                                  | (4) <b>Awareness and Dessimination Meeting</b> (Higer level Authorities) who can make decision on finalized Finalize setting up organization, draw Poison Diagnosis and Treatment Guideline, and reporting system Poisoning in Human (25 persons, 10 Away, 2 days, 1 times) | National     | SOP is approved. MOU is signed. | Repeated communication and revision.                      | N |  | 4,382,500<br>$9000^* (25 - 10) + 2^* 10^* 4^* 30000 + 10^* 95000 + 2^* 250000 (True) + 25^* 2^* (15000True + 10000True) + 25^* 2500True)^* 1 + 0 + 0$  | 1 Meeting : Per diem = 9000 Participants = 25 Days = 2, Participants away = 10 Days away = 4 Dien away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Print Dis = 50000, Printing costs = 0, Disseminating costs = 0 | 1  |    |    | -  | 4,382,500  | -          | -          | -           | 4,382,500   |
|  |  |                                                  | (5) International Training Program on poison management for relevant staff (2 persons, 20 days, 2 times per year)                                                                                                                                                           | Sub-national |                                 | Timely approval and processing                            | N |  | 13,500,000                                                                                                                                             |                                                                                                                                                                                                                                                                                            |    | 2  | 2  | 2  | 2          | 27,000,000 | 27,000,000 | 27,000,000  | 108,000,000 |
|  |  |                                                  | (6) Local trainings for poison management (25 persons, 10 Away, 5 days, 3 times per year)                                                                                                                                                                                   | Sub-national |                                 | International consultant in poison management (2 persons) | N |  | 8,162,500<br>$9000^* (25 - 10) + 5^* 10^* 7^* 30000 + 10^* 95000 + 5^* 250000 (True) + 25^* 5^* (15000True + 10000True) + 25^* 2500True)^* 1 + 0 + 0$  | 1 Training : Per diem = 9000 Participants = 25 Days = 5, Participants away = 10 Days away = 7 Dien away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0                   | 3  | 3  | 3  | 3  | 24,487,500 | 24,487,500 | 24,487,500 | 97,950,000  |             |
|  |  |                                                  | (7) Conduct Supervisory Visit (4 persons, 5 days, 16 times)                                                                                                                                                                                                                 |              |                                 | Tight schedules                                           | N |  | 1,790,000<br>$4^* 5^* 31000 + 4^* 95000 + 1^* 132000 + 5^* 5^* 1^* 26000 = 1790000$                                                                    |                                                                                                                                                                                                                                                                                            | 16 | 16 | 16 | 16 | 28,640,000 | 28,640,000 | 28,640,000 | 114,560,000 |             |
|  |  |                                                  | (8) Annual Coordination and Evaluation Meeting the whole action plan (JEE Meeting)                                                                                                                                                                                          |              |                                 |                                                           | N |  | 11,380,000<br>$9000^* (60 - 20) + 3^* 20^* 5^* 30000 + 20^* 95000 + 3^* 250000 (True) + 60^* 3^* (15000True + 10000True) + 60^* 2500True)^* 1 + 0 + 0$ | 1 Meeting : Per diem = 9000 Participants = 60 Days = 3, Participants away = 20 Days away = 5 Dien away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0                    |    |    | 3  | -  | -          | -          | 34,140,000 | 34,140,000  |             |

| EE Indicator       | Ct.2                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Enabling environment is in place for management of chemical events                                                                                                                                                                                                                          |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EE Scores          | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                             |
| EE recommendations | * Finalize and approve the national CBRN contingency plan, which defines authorities, roles, and responsibilities across the whole of government for chemical event surveillance, alert, and response<br>* Develop SOPs for chemical event detection, assessment, and response operations<br>* Develop an integrated national chemical surveillance system, which incorporates lab analysis and centralized reporting of chemical events to the national PHEOC |                                                                                                                                                                                                                                                                                             |
| Objective          | * To strengthen Multi-sectoral Integrated National Response to Chemical events or emergencies                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                             |
| No                 | Summary of Planned Activities at National Level (Strategic actions)                                                                                                                                                                                                                                                                                                                                                                                            | Total Cost Year in Local Currency                                                                                                                                                                                                                                                           |
|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Year of Implementation                                                                                                                                                                                                                                                                      |
|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2018                                                                                                                                                                                                                                                                                        |
|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2019                                                                                                                                                                                                                                                                                        |
|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2020                                                                                                                                                                                                                                                                                        |
|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2021                                                                                                                                                                                                                                                                                        |
|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2022                                                                                                                                                                                                                                                                                        |
|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                | TOTAL                                                                                                                                                                                                                                                                                       |
| 1                  | National policies or plans or legislation for chemical event surveillance alert                                                                                                                                                                                                                                                                                                                                                                                | 1 Meeting : Per diem = 9000 Participants = 25 Days = 2, Participants away = 10 Days away = 4 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000 , Print Dis = 50000, Printing costs = 0, Disseminating costs = 0 |
|                    | (1) Meeting on getting Refined policies for import, registration and inventory of major hazard sites and facilities. Risk assessment to obtain list of hazardous chemicals of national importance. (25 persons, 10 Away, 2 days, 3 times)                                                                                                                                                                                                                      | (9000* (25 - 10) + 2 * 10 * 4 * 30000 + 10 * 95000 + 2 * 250000 (True) + 2 * 2 * 15000 True + 10000 True) + 25 * 2500 True ) * 1 + 0 + 0                                                                                                                                                    |
|                    | (2) Hiring of International Consultant expert                                                                                                                                                                                                                                                                                                                                                                                                                  | Number = 1 ; No of Days : 4, Per diem = 238920 ; Daily rate = 660000; Travel = 1584000 = 5179680                                                                                                                                                                                            |
|                    | (3) Meeting to get Mechanism/SOP for coverage, criteria of when and how to alert, duty rosters. Sharing information to respective departments and target populations for surveillance (25 persons, 10 Away, 2 days, 3 times)                                                                                                                                                                                                                                   | (9000* (25 - 10) + 2 * 10 * 4 * 30000 + 10 * 95000 + 2 * 250000 (True) + 2 * 2 * 15000 True + 10000 True) + 25 * 2500 True ) * 1 + 0 + 0                                                                                                                                                    |
|                    | Ministry of Industry, City Development Committees, MoHS (OHEH), States and Regions Health Departments), MoNREC, MoALI, MoHA (General Administration Department, Myanmar Police Force), MoD, Attorney General Office                                                                                                                                                                                                                                            | Ministry of Industry, City Development Committees, MoHS (OHEH), States and Regions Health Departments), MoNREC, MoFI, MoHA (General Administration Department, Myanmar Police Force), MoD, Attorney General Office                                                                          |

# NATIONAL ACTION PLAN FOR HEALTH SECURITY (NAPHS)

|   |                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                           |                                                                                                                      |                                                                                                                            |                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                            |   |   |   |   |  |   |            |            |            |             |             |
|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|---|--|---|------------|------------|------------|-------------|-------------|
| 2 | National policies or plans or legislation for chemical event response; Emergency response plan that defines the roles and responsibilities of relevant agencies.                                                                                                           | Ministry of Industry, City Development Committees, MoHS (OHEH, States and Regions Health Departments), MoNREC, MoLFI, MoHA (General Administration Department, Myanmar Police Force), MoD; Poison treatment, CBRNE Response team | CBRN Country Planning                                                                                                                                                                                                                                                                                                                                                                                | (1) Meeting to get Mechanism/SOPs for chemical event response: Poison treatment, CBRNE Response, Risk assessment and prevention of recurrent event (25 persons, 10 Away, 2 days, 3 times) | SOP for chemical event response: Poison treatment, CBRNE Response, Risk assessment and prevention of recurrent event | N                                                                                                                          | 4,382,500<br>(9000* (25 - 10) + 10* 95000 + 2* 250000 (True) +25 * 2* (15000True + 10000True) + 25* 2500True) * 1 + 0 + 0                                                                                                                                               | 1 Meeting : Per diem = 9000 Participants = 25 Days = 2, Participants away = 10 Days away = 4 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Print Dis = 50000, Printing costs = 0, Disseminating costs = 0 | 3 |   |   |   |  | - | 13,147,500 | -          |            |             | 13,147,500  |
| 3 | National policies and plans or legislation for chemical event surveillance alert and response: To be in place; Emergency response plan that defines the roles and responsibilities of relevant agencies in place including inventory of major hazard sites and facilities. | Ministry of Industry, City Development Committees, MoHS (OHEH, States and Regions Health Departments), MoNREC, MoLFI, MoHA (General Administration Department, Myanmar Police Force), MoD; Poison treatment, CBRNE Response team | (1) Conduct Pre-Event Public Education for awareness increased (4 times)                                                                                                                                                                                                                                                                                                                             | Type and Number of Pamphlet, Poster, TV and radio advertisement developed and produced                                                                                                    | N                                                                                                                    | 40,000,000                                                                                                                 |                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                            | 1 | 1 | 1 | 1 |  | - | 40,000,000 | 40,000,000 | 40,000,000 | 40,000,000  | 160,000,000 |
|   |                                                                                                                                                                                                                                                                            | Ministry of Industry, City Development Committees, MoHS (OHEH, States and Regions Health Departments), MoNREC, MoLFI, MoHA (General Administration Department, Myanmar Police Force), MoD; Poison treatment, CBRNE Response team | (2) Conduct Simulation Exercise and drills on Mechanisms during chemical event response: Poison treatment, CBRNE Response, Risk assessment and prevention of recurrent event including coverage, criteria of when and how to alert, duty rosters. Sharing information to respective departments and targetted populations for surveillance and alert (50 persons, 30 Away, 5 days, 2 times per year) |                                                                                                                                                                                           | N                                                                                                                    | 17,675,000<br>(9000* (50 - 30) + 30* 95000 + 5* 250000 (True) +50 * 5* (15000True + 10000True) + 50* 2500True) * 1 + 0 + 0 | 1 Meeting : Per diem = 9000 Participants = 50 Days = 5, Participants away = 30 Days away = 7 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0 | 2                                                                                                                                                                                                                                                                                          | 2 | 2 | 2 | 2 |  | - | 35,350,000 | 35,350,000 | 35,350,000 | 141,400,000 |             |

## MATRIX FOR THE DEVELOPMENT OF NATIONAL ACTION PLAN FOR HEALTH SECURITY 2018 - 2022

## Other IHR-related hazards and Points of Entry (PoE)

General Objective: To develop and sustain optimum capacity to prevent, detect and manage chemical events and radiation emergencies.

| GOAL                | Radiation Emergencies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                              |                                                                                         |                                                                                                                                                                                                                                    |                                                                  |                                                                                                           |                                                                               |                       |                                               |                                    |                                                                                                                                         |   |   |   |           | Total<br>Estimated<br>cost<br>(USD)                       |   |   |   |            |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------|-----------------------------------------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|---|---|---|-----------|-----------------------------------------------------------|---|---|---|------------|
| TECHNICAL AREA      | Mechanisms are established and functioning for detecting and responding to radiological and nuclear emergencies                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                              |                                                                                         |                                                                                                                                                                                                                                    |                                                                  |                                                                                                           |                                                                               |                       |                                               |                                    |                                                                                                                                         |   |   |   |           |                                                           |   |   |   |            |
| JEE Indicator       | RE.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                              |                                                                                         |                                                                                                                                                                                                                                    |                                                                  |                                                                                                           |                                                                               |                       |                                               |                                    |                                                                                                                                         |   |   |   |           |                                                           |   |   |   |            |
| JEE Scores          | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                              |                                                                                         |                                                                                                                                                                                                                                    |                                                                  |                                                                                                           |                                                                               |                       |                                               |                                    |                                                                                                                                         |   |   |   |           | 2,238,841.78                                              |   |   |   |            |
| JEE recommendations | * Finalize and approve the national CBRN contingency plan, which defines authorities, roles, and responsibilities across the whole of government for radiological event surveillance, alert, and response (to include designating a radiological / nuclear focal point for coordination and communication with the IHR NFP)<br>* Develop SOPs for radiation detection, assessment, and response operations<br>* Develop an integrated national radiological surveillance system, which incorporates lab analysis and centralized reporting of radiological events to the national PHEOC |                                                                                                                              |                                                                                         |                                                                                                                                                                                                                                    |                                                                  |                                                                                                           |                                                                               |                       |                                               |                                    |                                                                                                                                         |   |   |   |           | Total<br>Estimated cost<br>(Local<br>currency)<br>(Myats) |   |   |   |            |
| Objective           | To increase systems and capacity for management of radiological and nuclear emergencies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                              |                                                                                         |                                                                                                                                                                                                                                    |                                                                  |                                                                                                           |                                                                               |                       |                                               |                                    |                                                                                                                                         |   |   |   |           | Total cost per year of implementation                     |   |   |   |            |
| No                  | Summary of Planned Activities at National Level (Strategic actions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | "Responsible authority(s) for Implementation including budget line holder"                                                   | Related existing plan/framework/Programme or ongoing activities                         | "Detailed activities (Input description for costing)"                                                                                                                                                                              | Where is the action to be implemented (National or sub-national) | "Output indicators (Monitoring and Evaluation)"                                                           | Comments or Potential challenges                                              | Existing budget (y/n) | Existing budget source (govt, emment, donor?) | " Estimated cost (Local currency)" | Year of implementation                                                                                                                  |   |   |   |           | Total Cost Year in Local Currency                         |   |   |   | TOTAL      |
|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                              |                                                                                         |                                                                                                                                                                                                                                    |                                                                  |                                                                                                           |                                                                               |                       |                                               |                                    | 2                                                                                                                                       | 2 | 2 | 2 | 2         | 2                                                         | 2 | 2 | 2 | 2          |
|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                              |                                                                                         |                                                                                                                                                                                                                                    |                                                                  |                                                                                                           |                                                                               |                       |                                               |                                    | 0                                                                                                                                       | 0 | 0 | 0 | 0         | 0                                                         | 0 | 0 | 0 | 0          |
|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                              |                                                                                         |                                                                                                                                                                                                                                    |                                                                  |                                                                                                           |                                                                               |                       |                                               |                                    | 1                                                                                                                                       | 1 | 2 | 2 | 2         | 2                                                         | 2 | 2 | 2 | 2          |
|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                              |                                                                                         |                                                                                                                                                                                                                                    |                                                                  |                                                                                                           |                                                                               |                       |                                               |                                    | 8                                                                                                                                       | 9 | 0 | 1 | 2         | 2                                                         | 2 | 2 | 2 | 2          |
| 1                   | Development of <b>National Radiological/ Nuclear Emergency Response Plan</b> for detection, assessment and response to radiation emergencies                                                                                                                                                                                                                                                                                                                                                                                                                                            | (DAE- MOE/MOHS, MOD, MOHA- Customs-MOF ,MOSRR, Red Cross association, NGOs) and needs funded from International Organization | CBRN National Action Plan (waiting minister's permission) and then submit to parliament | (1) Ad-hoc/advocacy meeting with <b>National Emergency response team</b> for development of <b>National Radiological/ Nuclear Emergency Response Plan</b> (25 persons, 10 Away, 2days, 1 times)                                    | National                                                         | Number of Meetings conducted Development of National Radiological/ Nuclear Emergency Response Plan awared | Time, interest, awareness and commitments by Stakeholders and Decision Makers | N                     |                                               | 4,232,500                          | ( 9000" (25 - 10) *2 + 10 * 4 * 30000 + 10 * 95000 + 2 * 250000 (True) +25 * 2 * ( 15000True + 10000true) + 25 * 2500True ) * 1 + 0 + 0 | 1 |   | - | 4,232,500 | -                                                         | - | - | - | 4,232,500  |
|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                              |                                                                                         | (2) <b>Hiring of International Consultant for development of National Radiological/ Nuclear Emergency Response Plan</b> (2 International Consultant for 10 days - 2 weeks)                                                         | National                                                         | National Radiological/ Nuclear Emergency Response Plan drafted                                            |                                                                               | N                     |                                               | 10,573,200                         | 1 * 10 * (238920 + 660000) + 1 * 1584000 = 10573200                                                                                     | 2 |   |   |           |                                                           |   |   |   | 21,146,400 |
|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                              |                                                                                         | (3) Meeting/Workshop on Development and finalization of National Radiological/Nuclear Emergency Response Plan with Emergency working group members from relevant ministries and stakeholders (30 persons, 15 Away, 3days, 1 times) | National                                                         | Number of Meetings conducted                                                                              | Time, interest, awareness and commitments by Stakeholders and Decision Makers | N                     |                                               | 7,155,000                          | (9000" (30 - 15) * 3 + 15 * 5 * 30000 + 15 * 95000 + 3 * 250000 (True) +30 * 3 * ( 15000True + 10000true) + 30 * 2500True ) * 1 + 0 + 0 | 1 |   |   |           |                                                           |   |   |   | 7,155,000  |

|   |                                                                                                                                                                         |                                                                                                                    |                                                                                                                                                                                                                                                                                                            |                   |                                                     |                                                                               |   |            |                                                                                                                                       |                                                                                                                                                                                                                                                                          |   |   |   |            |            |            |            |
|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------------------------------------|-------------------------------------------------------------------------------|---|------------|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|------------|------------|------------|------------|
|   |                                                                                                                                                                         |                                                                                                                    | (4) <b>Dedissemination/advocacy/Awareness workshop</b> on National Radiological/ Nuclear Emergency Response Plan with Emergency working group members from relevant ministries and stakeholders<br><br>(70 persons, 20 Away, 3 days, 1 times)                                                              | National          | Number of Meeting conducted                         | Time, interest, awareness and commitments by Stakeholders and Decision Makers | N | 12,425,000 | (9000* (70 - 20) *3 + 20 * 5 * 30000 + 20 * 95000 + 3 * 250000 (True) + 70 * 3 * (15000true + 10000true) + 70 * 2500true) * 1 + 0 + 0 | 1 Meeting : Per diem = 9000 Participants = 70 Days = 3, Participants away = 20 Days away = 5 Diem away = 30000 Travel costs participants away = 95000, Tea break= 10000, Lunch= 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0    | 1 |   | - | 12,425,000 | -          | -          | 12,425,000 |
|   |                                                                                                                                                                         |                                                                                                                    | (5) <b>Awareness workshop</b> on National Radiological/ Nuclear Emergency Response Plan at township levels to concerned ministries and stakeholders 1times each at <b>Upper Myanmar and Lower Myanmar</b> with Local experts (50 persons, 25 Away, 1 days, 1 times of each, 2 times per year)              | Subnational level | Number of Workshops conducted                       | Time, interest, awareness and commitments by Stakeholders and Decision Makers | N | 5,595,000  | (9000* (50 - 20) *1 + 20 * 3 * 30000 + 20 * 95000 + 1 * 250000 (True) + 50 * 1 * (15000true + 10000true) + 50 * 2500true) * 1 + 0 + 0 | 1 Meeting : Per diem = 9000 Participants = 50 Days = 1, Participants away = 20 Days away = 3 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0  | 2 | 2 | 2 | -          | 11,190,000 | 11,190,000 | 44,760,000 |
|   |                                                                                                                                                                         |                                                                                                                    | (6) <b>Hiring of Local Consultant</b> for (1) day <b>Awareness workshop</b> on National Radiological/ Nuclear Emergency Response Plan at township levels<br><br>(1 National Consultant, 3 days, 2 times in th first year of Trainings/ Workshop)                                                           |                   |                                                     |                                                                               | N | 840,000    | 1 * 3 * (80000 + 200000) + 1 * 0 = 840000                                                                                             | Number = 1 ; No of Days : 3 , Per diem = 80000 ; Daily rate = 200000; Travel = 0                                                                                                                                                                                         | 2 |   |   | -          | 1,680,000  | -          | 1,680,000  |
| 2 | To develop <b>SOPs</b> for the <b>Management of Radiation Emergencies</b> (including risk assessment, reporting, event confirmation and notification and investigation) | (DAE- MOE/MOHS, MOD, MOHA, Customs-MOF, MOSRR, Red Cross association, NGOs) funded from International Organization | CBRN National Action Plan (waiting minister's permission) and then submit to parliament<br><br>Riske Assessment, reporting, event confirmation, notification and investigation) With Emergency working group members from relevant ministries and stakeholders (30 participants, 15 Away, 2 days, 2 times) | National level    | SoP for management of Radiation Emergencies drafted |                                                                               | N | 5,570,000  | (9000* (30 - 15) *2 + 15 * 4 * 30000 + 15 * 95000 + 2 * 250000 (True) + 30 * 2 * (15000true + 10000true) + 30 * 2500true) * 1 + 0 + 0 | 1 Workshop : Per diem = 9000 Participants = 30 Days = 2, Participants away = 15 Days away = 4 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0 | 2 |   |   | -          | 11,140,000 | -          | 11,140,000 |
|   |                                                                                                                                                                         |                                                                                                                    | (2) <b>Hiring of International Consultant</b> for Development of SoPs for the management of Radiation Emergencies<br><br>(1 Internationl Cosultant, 20 days - 1 Month)                                                                                                                                     | National Level    | SoP for management of Radiation Emergencies drafted | Technical experts                                                             | N | 19,562,400 | 1 * 20 * (238920 + 660000) + 1 * 1584000 = 19562400                                                                                   | Number = 1 ; No of Days : 20 , Per diem = 238920 ; Daily rate = 660000; Travel = 1584000                                                                                                                                                                                 | 1 |   |   | -          | 19,562,400 | -          | 19,562,400 |
|   |                                                                                                                                                                         |                                                                                                                    | (3) Workshop on finalization of SoPs for the management of Radiation Emergencies<br><br>(30 persons, 15 Away, 2days, 1Times)                                                                                                                                                                               |                   |                                                     |                                                                               | N | 5,570,000  | (9000* (30 - 15) *2 + 15 * 4 * 30000 + 15 * 95000 + 2 * 250000 (True) + 30 * 2 * (15000true + 10000true) + 30 * 2500true) * 1 + 0 + 0 | 1 Workshop : Per diem = 9000 Participants = 30 Days = 2, Participants away = 15 Days away = 4 Diem away = 30000 Travel costs participants away = 95000, Tea break = 10000, Lunch = 15000, Stationary = 2500, Venue = 250000, Printing costs = 0, Disseminating costs = 0 | 1 |   |   | -          | 5,570,000  | -          | 5,570,000  |

| No | Summary of Planned Activities at National Level (Strategic actions) | "Responsible authority(s) for implementation including budget line holder" | Related existing plan/ framework/ Programme or on going activities | "Detailed activities (input description for costing)"                                                                                                                                                                                                                          | Where action to be implemented (National or sub-national) | "Output indicators (Monitoring and Evaluation)"          | Comments or Potential challenges                                              | Existing budget (y/n) | Existing budget source (gov-ernment, donor?) | "Estimated cost (Local currency)" | Year of implementation | Total Cost Year in Local Currency |            |            |            |            |            |            |             |            |
|----|---------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------|----------------------------------------------|-----------------------------------|------------------------|-----------------------------------|------------|------------|------------|------------|------------|------------|-------------|------------|
|    |                                                                     |                                                                            |                                                                    |                                                                                                                                                                                                                                                                                |                                                           |                                                          |                                                                               |                       |                                              |                                   |                        | 2018                              | 2019       | 2020       | 2021       | 2022       | TOTAL      |            |             |            |
|    |                                                                     |                                                                            |                                                                    |                                                                                                                                                                                                                                                                                |                                                           |                                                          |                                                                               |                       |                                              |                                   |                        |                                   |            |            |            |            |            | 2          | 2           | 2          |
|    |                                                                     |                                                                            |                                                                    | (4) Dissemination/advocacy/ Awareness/Training workshop on SoPs for the management of Radiation Emergencies including exercises with Emergency working group members from relevant ministries and stakeholders (70 persons, 20 Away, 3 days, 1 times)                          | National                                                  | Number of Meeting conducted                              | Time, interest, awareness and commitments by Stakeholders and Decision Makers | N                     |                                              | 12,425,000                        | 1                      | -                                 | 12,425,000 | -          | -          | -          | -          | -          | -           | 12,425,000 |
|    |                                                                     |                                                                            |                                                                    | (4) <b>Training with exercises</b> on SoPs for the management of Radiation Emergencies for reporting, event confirmation, notification/ investigation to relevant ministries and other stakeholders (30 persons, 3days, 2 times in first year and 1 times in consecutive year) | National/ Sub-National level                              | Number of Trainings conducted<br>Number of Staff trained | Interest and practice utilization by Staff.                                   | N                     |                                              | 7,155,000                         | 2                      | 1                                 | 1          | 14,310,000 | 7,155,000  | 7,155,000  | 7,155,000  | 7,155,000  | 35,775,000  |            |
|    |                                                                     |                                                                            |                                                                    | (6) <b>Drilling Exercises on SoPs</b> for the management of Radiation Emergencies for reporting, event confirmation, notification/ investigation (30 persons, 15 Away, 2 days, 5 times per year)                                                                               | Township level                                            | Number of Trainings conducted<br>Number of Staff trained | Interest and practice utilization by Staff.                                   | N                     |                                              | 5,570,000                         | 5                      | 5                                 | 5          | 27,850,000 | 27,850,000 | 27,850,000 | 27,850,000 | 27,850,000 | 111,400,000 |            |



| JEE Indicator       | RE.2                                                                                                                                                                                                                                                                                                                        | Enabling environment is in place for management of radiation emergencies                                                                                                                            |                                                                                                                                                                                                                                                                                           |          |                                                                                                          |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| JEE Scores          | 1                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                           |          |                                                                                                          |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |  |  |
| JEE recommendations | * Finalize and approve the national CBRN contingency plan, which defines authorities, roles, and responsibilities across the whole of government for radiological event surveillance, alert, and response (to include designating a radiological / nuclear focal point for coordination and communication with the IHR NFP) |                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                           |          |                                                                                                          |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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|                     | * Develop SOPs for radiation detection, assesment, and response operations                                                                                                                                                                                                                                                  |                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                           |          |                                                                                                          |   |                                                        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|                     | * Develop an integrated national radiological surveillance system, which incorporates lab analysis and centralized reporting of radiological events to the national PHEOC                                                                                                                                                   |                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                           |          |                                                                                                          |   |                                                        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|                     | * To empower stakeholder and implementers having strong supports and commitments for management of Radiation and nuclear emergencies/event                                                                                                                                                                                  |                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                           |          |                                                                                                          |   |                                                        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| Objective           |                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                           |          |                                                                                                          |   |                                                        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| 1                   | 1.To develop <b>National Authority</b> for overseeing Radiological/ Nuclear Emergency Response Plan (DAE, MOHS, MOD, Custom dept, MLFRD, Red cross association, NGOs)<br>2. To designate <b>IHR National Focal point</b> for the Emergency Response Team                                                                    | (DAE- MOE, MOHS, MOD, Customs- MOF, MOLED, Red Cross association, NGOs) and needs funded from International Organization<br>2. IHR NFP should be the Director General of Division of Atomic Energy. | (1) Coordination Meetings with relevant ministries and stake holders to Organize the National Emergency Response (Authority) Team, <b>Radiation Emergency Working Group, Designated National Focal Point</b> (Unit) and their <b>Objective, TOR</b> (25persons, 10 Away, 2 days, 2 times) | National | 1. National Authority formed<br>2. IHR National Focal Point designated<br>3. Number of Meeting conducted | N | 4,282,500<br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br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## NATIONAL ACTION PLAN FOR HEALTH SECURITY (NAPHS)

| No | Summary of Planned Activities at National Level (Strategic actions) | "Responsible authority(s) for implementation including budget line holder" | Related existing plan/ Framework/ Programme or on going activities | "Detailed activities (input description for costing)"                                                                                                                                                                                                                                                         | Where the action to be implemented (National or sub-national)    | "Output indicators (Monitoring and Evaluation)"                     | Comments or Potential challenges           | Existing budget (y/n) | Existing budget (government, donor?)                   | "Estimated cost (Local currency)" |                                                                                                                                   | Year of implementation | Total Cost Year in Local Currency |            |            |            |             |
|----|---------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------|-----------------------|--------------------------------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------------------|------------|------------|------------|-------------|
|    |                                                                     |                                                                            |                                                                    |                                                                                                                                                                                                                                                                                                               |                                                                  |                                                                     |                                            |                       |                                                        |                                   |                                                                                                                                   |                        |                                   |            |            |            |             |
|    |                                                                     |                                                                            |                                                                    |                                                                                                                                                                                                                                                                                                               |                                                                  |                                                                     |                                            |                       |                                                        |                                   |                                                                                                                                   |                        | 2018                              | 2019       | 2020       | 2021       | 2022        |
|    |                                                                     | DAE-MoE                                                                    |                                                                    | (4) Regularly provision of Awareness program and Capacity building training to radiation users from MoHS, MoHA, MoD at Yangon DAE office<br>Procurement of 1 Teaching Equipments<br>(40 participants, 30 Away, 10 days, 1 times per year)                                                                     | Where is the action to be implemented (National or sub-national) | Number of awarness program and capacity building training conducted | Time and interest and cooperation by users | Y                     |                                                        | 27,250,000                        | (9000* (40 - 30) *10 + 30*12* 30000 + 30* 95000 + 10* 250000 (True) +40 *10* ( 15000True + 10000True) + 40* 2500True) * 1 + 0 + 0 | 1 1 1 1                | -                                 | 27,250,000 | 27,250,000 | 27,250,000 | 109,000,000 |
|    |                                                                     | DAE-MoE                                                                    | Ongoing trainings                                                  | (5) Establishing Workshop/training/Meeting on the capacity building for Radiological Emergency Preparedness and response program to CBRN team members by International Atomic Energy Agency, EU-CBRN-COE, with assistant from 2 International Experts<br>(30 participants, 10 Away, 2 days 1 times per year)  | National level                                                   | Number of trainings/ workshops/ meetings conducted                  | Time and interest and cooperation by users | Y                     | IAEA) International Atomic Energy Agency, EU-CBRN-COE, | 5,570,000                         | (9000* (30 - 15) *2 + 15* 4* 30000 + 15* 95000 + 2* 250000 (True) +30 *2 * (15000True + 10000True) + 30* 2500True) * 1 + 0 + 0    | 1 1 1 1                | -                                 | 5,570,000  | 5,570,000  | 5,570,000  | 22,280,000  |
|    |                                                                     |                                                                            |                                                                    | (6) Hiring of International Consultant for Workshop/training/ Meeting on the capacity building for Radiological Emergency Preparedness and response program to CBRN team members by International Atomic Energy Agency, EU-CBRN-COE<br>(2 International Consultant for 4 days, 1 times per year for training) | National                                                         | National Radiological/ Nuclear Emergency Response Plan drafted      | Time and interest and cooperation by users | Y                     | IAEA) International Atomic Energy Agency, EU-CBRN-COE, | 5,179,680                         | 1* 4 * (238920 + 660000) + 1* 1584000 = 5179680                                                                                   | 2 2 2 2                | -                                 | 10,359,360 | 10,359,360 | 10,359,360 | 41,487,440  |
|    |                                                                     |                                                                            |                                                                    | (7) Conduct Capacity building Training with Simulation exercises on Radiological Emergency Preparedness and response for CBRN members with assistance by 2 International Experts<br>(30 persons, Away 10, 3 days , 1 times per year)                                                                          | National                                                         | National Radiological/ Nuclear Emergency Response Plan drafted      |                                            | N                     |                                                        | 6,125,000                         | (9000* (30 - 10) *3 + 10* 5* 30000 + 10* 95000 + 3* 250000 (True) +30 *3 * (15000True + 10000True) + 30* 2500True) * 1 + 0 + 0    | 1 1 1 1                | -                                 | 6,125,000  | 6,125,000  | 6,125,000  | 24,590,000  |
|    |                                                                     |                                                                            |                                                                    | (8) Hiring of International Consultant for Capacity building Training with Simulation exercises on Radiological Emergency Preparedness and response for CBRN members<br>(2 International Consultant for 4 days, 1 times per year for training)                                                                | National                                                         | National Radiological/ Nuclear Emergency Response Plan drafted      | Time and interest and cooperation by users | Y                     | IAEA) International Atomic Energy Agency, EU-CBRN-COE, | 5,179,680                         | 1* 4 * (238920 + 660000) + 1* 1584000 = 5179680                                                                                   | 2 2 2 2                | -                                 | 10,359,360 | 10,359,360 | 10,359,360 | 41,487,440  |

|   |                                                                                                                                                   |                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                         |                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                        |   |                                                                                                                       |  |     |   |     |     |   |             |            |             |             |           |           |           |            |
|---|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----------------------------------------------------------------------------------------------------------------------|--|-----|---|-----|-----|---|-------------|------------|-------------|-------------|-----------|-----------|-----------|------------|
| 3 | 1. To establish the <b>Emergency Radiation monitoring Laboratory for surveillance and risk assessment</b> and Establishment of Biosimetry service | CBRN, National Radiological/ Nuclear Emergency Response Plan, National Radiation Emergencies Management SOPs | (1) Establishment of Mobile system for Emergency monitoring and surveillance<br>Procurement of equipments, IT test kits, reagents, supplies, and commodities<br>1. Needed mobile system for Emergency monitoring and surveillance<br>2- High Purity Germanium (HpGe) detector<br>3- Sodium Iodide (NaI) detector.<br>4- Alpha/beta counting system with a simple changer<br>5- Liquid Scintillation Counting System (LSC) for low-level beta counting.<br>6- Standards (Mixed gamma in Marinelli beaker; Radio-iodine in charcoal filter and filter paper, Am-241 (alpha emitter) on planchette, Cs-137 and Sr-90 (beta emitters) on planchette, LSC: H-3, C-14 and two radon in water standards<br>7- Portable detectors (Alpha Scintillation survey meters and probes, micro-R meters, Radionuclide identifiers with neutron detection capability, GM Survey meters with stick probes and pancake probes, Survey meters with extendable probes to reach rail cars, Air samplers with tripods and external battery supply)<br>8. sample collection tools<br>9- Communications (Two flatscreen TVs, Satellite phone, Cellular phone service, Land line and FAX machine, Direct TV Service)<br>10- Potassium Iodine (KI) tablets for emergency workers. | National Level, DAE-MOE | Essential Equipments and accessories procured. Number of Emergency Radiation Monitoring and surveillance<br>1. HpGe detector<br>2. NaI (3 x3 inch)<br>3. alpha-beta counting system<br>4. Radionuclide identifier<br>5. LSC Tricard 3180 | Approval, supports and Commitments by Decision makers and Stakeholder as it is under planning (consideration) by DAE<br>Difficulties in procurement of<br>1. HpGe detector<br>2. NaI (3 x3 inch)<br>3. alpha-beta counting system<br>4. Radionuclide identifier<br>5. LSC Tricard 3180 | N | 88,200,000<br>225,000,000 (2019),<br>88,200,600 (2020),<br>736,0500,000 (2020),<br>736,0500,000 (2020),               |  | 2.6 | 1 | 8.3 | 8.3 | - | 229,320,000 | 88,200,000 | 732,060,000 | 732,060,000 | 5,400,000 | 5,400,000 | 5,400,000 | 21,600,000 |
| 4 | Public Awareness Program                                                                                                                          | DAE-MOE                                                                                                      | Posters, Pamphlets, Sticker currently using in awareness for users                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | National                | Number of IEC materials on Public awareness for Radiation Emergencies distributed                                                                                                                                                        | Technical Inputs for IEC development                                                                                                                                                                                                                                                   | N | 5,400,000<br>Poster 3000*5000,<br>Pamphlet 10000*50,<br>Sticker 3000*50,<br>Signboard 3000*1000, distribution 5*50000 |  | 1   | 1 | 1   | 1   | - | 5,400,000   | 5,400,000  | 5,400,000   | 5,400,000   | 5,400,000 | 5,400,000 | 5,400,000 | 21,600,000 |

