### DRAFT NATIONAL DISASTER MANAGEMENT PLAN 2012 - 2015

# PREPARED FOR THE INSTITUTIONAL STRENGTHENING AND CAPACITY DEVELOPMENT ON DISASER RISK MANAGEMENT IN LAO PDR PROJECT

#### GOVERNMENT OF LAO PDR NATIONAL DISASTER MANAGEMENT OFFICE OF THE MINISTRY OF LABOR AND SOCIAL WELFARE

#### UNITED NATIONS DEVELOPMENT PROGRAM LAO PDR

#### PROJECT NUMBER: 00074178

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# PART I BACKGROUND



#### Lao People's Democratic Republic Peace, Independence, Democracy, Unity, Prosperity

#### National Disaster Management Plan

#### **DRAFT Forward**

The National Disaster Management Plan is an outcome of the national and international commitments of the Government of Lao PDR through the National Disaster Management Committee and the National Disaster Management Office of the Ministry of Labor and Social Welfare to create a more disaster resilient nation. The plan has been developed on the basis of a national vision and mission to reduce the vulnerability of all the people of the Lao PDR to the effects of natural, environmental and human induced hazards to a manageable and acceptable humanitarian level by a) bringing a paradigm shift in disaster management from conventional response and relief practice to a more comprehensive risk reduction culture and b) strengthening the capacity of the Lao PDR disaster management system in improving the comprehensive response and recovery management at all levels.

The Lao PDR is taking a holistic approach for disaster management where emphasis has been given to work together with all the stakeholders and build strategic, scientific and implementation partnerships. The role of Government of Lao PDR, through the National Disaster Management Committee, is to ensure that risk reduction and comprehensive disaster management is a focus of national policy and programmes.

The Plan reflects the disaster risk reduction initiatives since creation of the National Disaster Management Committee in 1999 in line with the paradigm shift in disaster management from conventional response and relief to a more comprehensive risk reduction culture. The Plan seeks to address the current disaster risk threats facing the Government and people in the Lao PDR as well as bringing other important issues, such as risk reduction/mitigation, capacity building, climate change adaptation, livelihood security, gender mainstreaming, community empowerment as well as response and recovery management, into a four-year action plan. The plan also will act as a basic guideline for all relevant agencies in strengthening better working relations and enhancing mutual cooperation.

The Government of Lao PDR is committed to the implementation of its risk reduction framework and we congratulate the developers of the National Disaster Management Plan which shall contribute to achieving both the sustainable development goals in the National Socio-Economic Development Plan and the Millennium Development Goals.

DATE:

(SIGNED: Deputy Prime Minister, Lao PDR and Chairman, National Disaster Management Committee) Page **3** of **97** 

#### ACRONYMS AND ABBREVIATIONS

| AADMER   | ASEAN Agreement for Disaster  | IHR  | International Health Regulations   |
|--|---|--|--|
|  | Management and Emergency Response   | INGO   | International Non-Governmental   |
| ACMECS   | Ayeyawady - Chao Phraya - Mekong  |  | Organisation   |
|  | Economic Cooperation Strategy   | INSARAG  | International Search and Rescue  |
| ADB  | Asian Development Bank  |  | Advisory Committee   |
| ADPC   | Asian Disaster Preparedness Centre  | 10   | International Organisation   |
| AHA Centre   | ASEAN Coordinating Centre for   | IOM  | International Organisation for Migration   |
|  | Humanitarian Assistance on Disaster   | JICA   | Japan International Cooperation Agency   |
|  | Management  | L-JATS   | Lao-Japan Airport Terminal Services  |
| APSED  | Asia Pacific Strategy for Emerging  | LRC  | Lao Red Cross  |
|  | Diseases  | MAF  | Ministry of Agriculture and Forestry   |
| ARPDM  | ASEAN Regional Program for Disaster   | MBDS   | Mekong Basin Disease Surveillance  |
|  | Management  | MCDA   | Military and Civil Defense Assets  |
| ASEAN  | Association of Southeast Asian Nations  | MCTPC  | Ministry of Communications, Transport,   |
| SASOPS   | ASEAN Standby Arrangements and  |  | Post and Construction (now MPWT)   |
| 0/10010  | Standard Operating Procedures   | MDG  | Millennium Development Goal  |
| AUSAID   | Australian Agency for International   | MoND   | Ministry of National Defense   |
| AUSAID   | Development   | MoE  | Ministry of Education  |
| CBDP   | Community Based Disaster  | MoEM   | Ministry of Energy and Mines   |
| CDDI   | Preparedness  | MoF  | Ministry of Finance  |
| СВО  | Community Based Organization  | MoFA   | Ministry of Foreign Affairs  |
| CCA  | Common Country Assessment   | MIC  | Ministry of Information and Culture  |
| CRA  | Community Risk Assessments  | MLSW   | Ministry of Labour and Social Welfare  |
| CRED   | Center for Research on the  |  | Ministry of Health   |
| GRED   |   | MoH  | 2  |
|  | Epidemiology of Disasters   | MOU  | Memorandum of Understanding  |
| DCA<br>DCDC  | Department of Civil Aviation<br>District Communicable Disease   | MPS  | Ministry of Public Security  |
| DCDC   |   | MPWT   | Ministry of Public Works and Transport   |
| DDMC   | Committee   | MRC  | Mekong River Commission  |
| DDMC   | District Disaster Management  | NAHICO   | National Avian and Human Influenza   |
|  | Committee   |  | Coordination Office  |
| DIPECHO  | Disaster Preparedness Programme   | NAICPPP  | National Avian Influenza Control and   |
| DMC  | European Commission   |  | Pandemic Preparedness Plan 2006-2010   |
| DMC  | Disaster Management Committees  | NAPA   | National Adaptation Programme of   |
| DMH  | Department of Meteorology and   | NADT   | Action to Climate Change   |
| DMD  | Hydrology   | NAPT   | National Authority for Post and  |
| DMP  | Disaster Management Plan  | NACDET   | Telecommunications   |
| DRM  |   | NASRET   | National Search and Rescue Team  |
|  | Disaster Risk Management  |  |  |
| DRR  | Disaster Risk Reduction   | NCCCD  | National Coordination Committee on   |
|  | Disaster Risk Reduction<br>Economic Cooperation Strategy Plan of  | NCCCD  | National Coordination Committee on<br>Diseases   |
| DRR<br>ECSPA   | Disaster Risk Reduction<br>Economic Cooperation Strategy Plan of<br>Action  |  | National Coordination Committee on<br>Diseases<br>National Committee on Communicable   |
| DRR<br>ECSPA<br>EOC  | Disaster Risk Reduction<br>Economic Cooperation Strategy Plan of<br>Action<br>Emergency Operations Center   | NCCCD<br>NCCDC   | National Coordination Committee on<br>Diseases<br>National Committee on Communicable<br>Diseases and Control   |
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| DRR<br>ECSPA<br>EOC<br>FAO<br>FDC  | Disaster Risk Reduction<br>Economic Cooperation Strategy Plan of<br>Action<br>Emergency Operations Center<br>UN Food and Agriculture Organization<br>Flood and Drought Committee  | NCCCD<br>NCCDC<br>NCLE   | National Coordination Committee on<br>Diseases<br>National Committee on Communicable<br>Diseases and Control<br>National Centre for Laboratory and<br>Epidemiology   |
| DRR<br>ECSPA<br>EOC<br>FAO<br>FDC<br>FDD   | Disaster Risk Reduction<br>Economic Cooperation Strategy Plan of<br>Action<br>Emergency Operations Center<br>UN Food and Agriculture Organization<br>Flood and Drought Committee<br>Food and Drugs Department   | NCCCD<br>NCCDC   | National Coordination Committee on<br>Diseases<br>National Committee on Communicable<br>Diseases and Control<br>National Centre for Laboratory and<br>Epidemiology<br>National Disaster Management   |
| DRR<br>ECSPA<br>EOC<br>FAO<br>FDC<br>FDD<br>GMS  | Disaster Risk Reduction<br>Economic Cooperation Strategy Plan of<br>Action<br>Emergency Operations Center<br>UN Food and Agriculture Organization<br>Flood and Drought Committee<br>Food and Drugs Department<br>Greater Mekong Sub-region  | NCCCD<br>NCCDC<br>NCLE<br>NDMC   | National Coordination Committee on<br>Diseases<br>National Committee on Communicable<br>Diseases and Control<br>National Centre for Laboratory and<br>Epidemiology<br>National Disaster Management<br>Committee  |
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#### 2012-2015 DRAFT NATIONAL DISASTER MANAGEMENT PLAN

| PDMC  | Provincial Disaster Management     | UNICEF | United Nations Children's Fund            |
|-------|------------------------------------|--------|---|
|       | Committee                          | UNISDR | United Nations International Strategy for |
| PDR   | People's Democratic Republic       |        | Disaster Reduction                        |
| PMO   | Prime Minister's Office            | UNOCHA | United Nations Office for the             |
| PRSP  | Poverty Reduction Strategy Papers  |        | Coordination of Humanitarian Affairs      |
| SAR   | Search and Rescue                  | UNRC   | United Nations Resident Coordinator       |
| SARS  | Severe Acute Respiratory Syndrome  | UXO    | Unexploded Ordinance                      |
| SNAP  | Strategic National Action Plan     | VCA    | Vulnerability and Capacity Assessment     |
| SOP   | Standard Operating Procedure       | VDPU   | Village Disaster Protection Unit          |
| STEA  | Science and Technology Environment | WB     | World Bank                                |
|       | Agency                             | WFP    | World Food Programme                      |
| UNDAC | United Nations Disaster Assessment | WHO    | World Health Organisation                 |
|       | and Coordination                   | WMO    | World Meteorological Organization         |
| UNDMT | United Nations Disaster Management | WRCC   | Water Resources Coordination              |
|       | Team                               |        | Committee                                 |
| UNDP  | United Nations Development         | WREA   | Water Resources and Environment           |
|       | Programme                          |        | Administration                            |
| UNGA  | UN General Assembly                |        |   |
|       |                                    |        |   |

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#### 1. INTRODUCTION

As the government of the Lao People's Democratic Republic (Lao PDR) proceeds to build its natural resource-rich environment into a modern, market-based economy, international development interests are providing more support for the benefit of all the people of the country. The environment provides the natural resources which comprise the country's exploited and unexploited wealth, and the geographical characteristics which have impeded more rapid social and economic development in the past. The environment also contains natural hazards that create periodic conditions of destruction or extreme hardship for many of the country's 6.1 million people.<sup>1</sup>

It is now widely recognized that the adverse consequences of natural disasters<sup>2</sup> can easily destroy hard won accomplishments and waste resources committed to national development efforts in any country. It is the most impoverished countries, which suffer comparatively greater loss from disasters. In addition to causing the loss of both capital and personal assets, disasters often result in the diversion of national resources from development activities for short-term emergency relief and recovery.

The main mission of the Government is to bring a paradigm shift in disaster management approach from conventional response and relief to a more comprehensive risk reduction culture and to promote food security as an important factor in ensuring the resilience of the communities to hazards.

The primary hazards<sup>3</sup> in the Lao PDR with a significant potential for large scale destruction of property or loss of social and economic assets are floods and droughts. As the country has the largest per capita availability of fresh water anywhere in Asia, there is no anticipated acute shortage. There are however, strongly marked wet and dry seasons and a topography which accentuates localized conditions. There are also considerable fluctuations in precipitation throughout the year and among different areas of the country.

<sup>&</sup>lt;sup>1</sup> 6,127,910 persons as per the Lao Department of Statistics, Ministry of Planning and Investment 2009. P.22. June 2010.

<sup>&</sup>lt;sup>2</sup> While there are many possible definitions of disasters, the one which will be used throughout this document is, 'A serious disruption of the functioning of a community or society involving widespread human, material, economic or environmental losses and impacts, which exceed the ability of the affected community or society to cope using its own resources.' Disasters are often described as a result of the combination of exposure to a hazard; the conditions of vulnerability that are present; and the insufficient capacity or measures to reduce or cope with the potential negative consequences.

<sup>&</sup>lt;sup>3</sup> The general definition of hazard used here is an event which has the potential to cause a disaster, and can be either natural (e.g. flood, cyclone, tsunami), human induced (e.g. chemical spill, fire), biological (e.g. SARS, Bird Flu) or technological in nature (e.g. nuclear generator failure). Hazards are not by definition disasters. Hazards include: (a.) A cyclone, earthquake, flood, storm surge, tornados, tsunami, riverbank erosion, drought, landslide, hailstorm or other natural happening; (b) An explosion or fire, a chemical, fuel or oil spill, or a gas leak; (c.) An infestation, plague or epidemic; (d). A failure of, or the disruption to, an essential service or infrastructure; and (e) A process of organic origin or those conveyed by biological vectors, including exposure to pathogenic micro-organisms, toxins and bioactive substances.

Droughts or floods may occur somewhere in the country during any year, and both occur in some years, as happened in 1972, 1979, 1986, 1991, 1992 and 1993. There have been 43 occurrences of either flood or drought during the period 1965-2008. Floods have the greatest macro-economic impact on the country and affect a greater number of people.

The effects of drought can be even more severe on individual victims, as frequently the affected people lead a subsistence existence with limited reserves and few economic options. It is generally the Northern provinces or highland areas adjacent to Vietnam where drought conditions or prolonged food scarcity are experienced. Because of the frequently rugged terrain and few roads, the areas prone to drought are more difficult to access for the provision of relief.

There are other lesser hazards which occur in the country or ones which have a more localized or limited affect on matters of national development. Some, like HIV/AIDS may have severe repercussions, but are already being addressed in other sectoral or national programmes. Others, such as urban, environmental, or "technological" hazards are not yet a serious concern, but an increased awareness of their potential should be considered in the context of national developmental planning. These other hazards are of interest to the general aspects of disaster risk management but attention will be concentrated on the major, slow-onset, natural disasters with present, significant national impact.

According to the National Disaster Management Office, more than one million people were affected by floods and 97,000 people by drought during the period 2000-2007. The assessed losses to the floods during this period were in excess of US dollars eight million and the losses to drought set at US dollars 84,251. Losses were also incurred during the August 2008 floods along the Mekong River and the September 2009 floods associated with Typhoon Ketsana.

#### 1.1 Background

Following assistance in the development of aptitudes in disaster management by the United Nations Development Programme from 1997 to 1999, the Lao PDR created a simplistic model to guide disaster risk reduction and emergency response management efforts. The establishment of the National Disaster Management Committee (NDMC) through the Prime Minister's decree 158 (August 23, 1999) and the creation of its secretariat, the National Disaster Management Office were important steps forward by the Government. The responsibilities of the NDMC include the development of disaster management policies, mobilization and coordination of national and international assistance, information management and public awareness, disaster preparedness, response and recovery and promotion of local disaster management committees at the district and village levels.

A subsequent decree 097/MLSW and the National Strategic Plan for Disaster Risk Management 2003-2020 (1139/MLSW of 18 April 2003) provided the current policy framework for disaster management in the nation with the aim to: reduce disaster risk to the communities and strengthen capacities of disaster management bodies at the national, local and community levels on disaster risk management.

The Lao PDR has adopted the Hyogo Framework of Action at the World Conference on disaster risk reduction in Kobe in 2005 and is also a signatory of the Delhi Declaration of 2007. Thus, the Government of Lao PDR had recognized disaster risk reduction as a key development

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priority that encompasses hazard mitigation and vulnerability reduction through an effective preparedness strategy aimed at reducing the effects of natural and man-made disaster, particularly in rural areas.<sup>4</sup>

Of particular importance was progress noted in the following areas:

- The establishment of National and Provincial Disaster Management Committees;
- Workshops and capacity development training on disaster risk management have been conducted for local disaster management bodies and rural/urban communities;
- Provincial Disaster Management Plans are in development in addition to district level flood preparation plans;
- Discussion has begun to integrate disaster risk reduction into development policies, planning, rural development plans and the national poverty reduction plan;
- Mainstreaming disaster risk reduction into school curriculums;
- Hazard and vulnerability risk mapping being conducted;
- Closer cooperation being developed in support of weather forecasting and flood early warning and dissemination and;
- Strong partnerships being developed with international partners to strengthen disaster preparedness and risk reduction.

#### 1.2. Purpose and Objective

The National Disaster Management Plan follows the Hyogo Framework for Action (HFA) as the overall framework to guide the response of stakeholders in addressing the impact of disasters. A strong emphasis, however, is given towards strengthening sub-national capacities, particularly at the provincial and community level, to fully support the government priority of poverty reduction as elaborated in national development plans and policies.

The objectives of this National Disaster Management Plan are to:

- Align the strategic direction of disaster management programs with national priorities and international commitments.
- Articulate the vision and goals for disaster management
- Outline the strategic direction and priorities to guide the design and implementation of disaster management policies and programs.
- Create a cohesive and well-coordinated programming framework incorporating government, non-government and private sector.
- Ensure that disaster management has a comprehensive and all-hazards focus comprising disaster risk reduction and emergency response.
- Illustrate to other ministries, NGOs, civil society and the private sector how their work can contribute to the achievements of the strategic goals and government vision on disaster management.

<sup>&</sup>lt;sup>4</sup> H.E. Dr. Ty Phommasack, Vice Minister of Agriculture and Forestry. 3<sup>rd</sup> Asian Ministerial Conference on Disaster Risk Reduction December 2-4, 2008, Kuala Lumpur proceedings. pp. 131-132. Page **10** of **97** 

#### 1.3. Planning Assumptions

The analysis of hazard risks, vulnerabilities and dynamic pressures bring home a scenario of more people living in and around hazard-prone areas. Current trends suggest that more people will be living in existing settlements in hazard-prone areas and new settlements will continue to spring-up with expanding population. These trends may worsen over the years since the population of Lao is on the rise. At the other end, the frequency, severity and intensity of certain hazards is on the rise; e.g. droughts, flooding, soil erosion and landslides, resulting from environmental degradation and climate change. From these scenarios it could be concluded that disasters in future will be more frequent and their social, economic and environmental impacts higher than before. In addition, regions that previously were not prone to certain hazards (e.g. droughts, flooding), may experience them in future.

#### 1.4. Linkages with National Development Policies and Plans

The findings of the National Risk Profile of Lao PDR, including the national risk profiling for the country, will create the basis for incorporating appropriate risk reduction strategies and prioritizing them into the country's development planning by the Government of Lao PDR. It is expected that the findings of the proposed study will allow decision makers to prioritize risk mitigation investments and measures to strengthen the emergency preparedness and response mechanisms for reducing future losses and damages due to natural disasters. It would further assist donor agencies, development partners and so on, in adopting a risk reduction strategy for Lao PDR through appropriate financing mechanisms.

- map out all hazard prone areas and respective hazard zones based on historic disaster events;
- identify and assess the exposure of people, property, critical facilities, infrastructure and economic activities to those hazards;
- carry out preliminary assessments of the potential damage state of the identified elements at risk with reference to expected hazard intensities;
- and create preliminary national multi-hazard profiles in terms of hazards and sectors to identify priorities for National Disaster Risk Reduction Strategies.

#### 2. DISASTER RISKS AND HAZARDS IN LAO PDR

EM-DAT<sup>5</sup> has published a broader profile of disasters in Lao PDR. The profile shows that drought has affected a large population: in five drought events more than 4.25 million were affected. Epidemics have proven to be the biggest killer with about 578 people killed in five events. More frequent events are floods in the Mekong River which have affected more than 3.45 million people.

The ADPC study, 'Developing a National Risk Profile of the Lao PDR' has revealed that the Lao PDR is prone to various geological, hydro-meteorological and human induced hazards with specific degrees of severity.

<sup>&</sup>lt;sup>5</sup> "EM-DAT: The OFDA/CRED International Disaster Database, www.em-dat.net - Université Catholique de Louvain - Brussels - Belgium"

| Disaster |                       | Number of<br>Events | Killed | Total<br>Affected | Damage<br>(000) US \$ |
|----------|-----------------------|---------------------|--------|-------------------|-----------------------|
| Drought  | Drought               | 5                   | -      | 4,250,000         | 1,000                 |
|          | Unspecified           | 3                   | 44     | 9,685             | -                     |
| Epidemic | Bacterial<br>Diseases | 2                   | 534    | 8,244             | -                     |
| Epidemic | Viral<br>Diseases     | 3                   | 208    | 2,000             | -                     |
| Flood    | Unspecified           | 10                  | 76     | 1,878,600         | 2,480                 |
| Flood    | General Food          | 8                   | 358    | 1,569,740         | 37,128                |
| Storm    | Unspecified           | 2                   | 8      | 38,435            | 302,301               |
| Storm    | Tropical<br>Cyclone   | 3                   | 64     | 1,397,764         | 103,650               |

### Table I: Natural Disaster Profile of Lao PDR<sup>6</sup>

#### Provincial Map and Demographical Information



|    | PROVINCE                | CAPITAL             | AREA (sq | POPULATION |
|----|-------------------------|---------------------|----------|------------|
|    |                         |                     | km.)     |            |
| 1  | <u>Attapeu</u>          | <u>Attapeu</u>      | 10,320   | 124,197    |
| 2  | Bokeo                   | Ban Houayxay        | 6,196    | 161,530    |
| 3  | <u>Borikhamsai</u>      | <u>Paksan</u>       | 14,863   | 256,371    |
| 4  | <u>Champasak</u>        | Pakse               | 15,415   | 643,686    |
| 5  | Hua Phanh               | Xam Neua            | 16,500   | 310,303    |
| 6  | Khammuan                | Thakhek             | 16,315   | 367,904    |
| 7  | Luang Namtha            | Luang Namtha        | 7 9,325  | 160,473    |
| 8  | Luang Phrabang          | Luang Phrabang      | 16,875   | 439,504    |
| 9  | Oudomxay                | Muang Xay           | 15,370   | 292,869    |
| 10 | Phongsaly               | Phongsali           | 16,270   | 174,246    |
| 11 | Xayabury                | Xayabury            | 16,389   | 367,421    |
| 12 | Saravane                | Saravane            | 10,691   | 358,041    |
| 13 | Savannakhet             | Savannakhet         | 21,774   | 890,582    |
| 14 | Sekong                  | Sekong              | 7,665    | 95,243     |
| 15 | Vientiane<br>Prefecture | Vientiane           | 3,920    | 754,384    |
| 16 | Vientiane<br>Province   | Muang Phon-<br>Hong | 15,927   | 467,452    |
| 17 | Xiengkhuang             | Phonsavan           | 15,880   | 263,697    |

<sup>&</sup>lt;sup>6</sup> Source: (EM-DAT, 2010) Summarized Table of Natural Disasters in Lao PDR from 1900 to 2011

#### 2.1. Hazard Profile

The Lao PDR has a history of floods, drought, storms and disease outbreaks and epidemics. The effects of unexploded ordnance, remnants from the Vietnam War, remain as the slow process of clearance continues. Landslides, fires and agricultural pests and rodent infestation are particular concerns of the agrarian sectors. Earthquake tremors have been felt in various provinces in the country while the impacts of climate change and urban, environmental or "technological" hazards are currently being assessed in order to create viable mitigation strategies.

A brief overview on each hazard is presented while a more expansive description can be found in the National Risk Profiles of Lao PDR, developed in 2010 by the National Disaster Management Office, the Asian Disaster Preparedness Center with financial support of the United Nations Development Programme – Lao PDR.

#### 2.1.1. Floods

Major floods have occurred in Lao PDR during the past 35 years, with exceptional ones in 1966, 1971, 1978 (some accounts cite 1977) 1995, 2008 and 2009. As a general condition, floods are experienced from August to September in the central and southern provinces of the country, in association with the southwest monsoon season. The floods may arise in the northern reaches of the Mekong River but the most significant effects are felt in the downstream parts of the Mekong River and its primary tributaries, south and eastward from Vientiane Province and Vientiane Prefecture and downstream to the southern extremity of the country where the Mekong River enters Cambodia. The tributaries are frequently swollen by heavy rainfall in their own catchment basins and then are further "backed up" by the advancing flooded Mekong.

Flood hazard maps were developed for the most flood-prone river basins. Eight rivers were identified and determined for flood hazard and risk assessments in accordance with the past history of flooding as well as in consultation with various flood-related agencies. The rivers identified in the assessment include Nan Ou, Nam Ngum, Nam Ngiap, Nam Xan, Se Bangfai, Xe Banghiang, Xe Don and Xe Kong. Results show that several districts located within these eight river basins are prone to flooding; with different water levels and areas of inundation.

| Number | Year | Type of Disaster Event      | Damage Cost<br>US\$ (000) | Location of<br>Disaster Event  |
|--------|------|-----------------------------|---------------------------|--------------------------------|
| 1.     | 2008 | Large Flood and Flash Flood | 4,384.40                  | Northern and<br>Central        |
| 2.     | 2007 | Flash Flood                 | 8,056                     | Northern, Central and Southern |
| 3.     | 2006 | Flood                       | 3,636                     | Central and<br>Southern        |
| 4.     | 2005 | Flash Flood and Landslide   | 1,316.58                  | Central and<br>Southern        |

#### Table II: Damage caused by floods in Lao PDR from 1966-2008

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| 5.  | 2004 | Flood                                     | 750.399    | Southern                              |
|-----|------|---|------------|---------------------------------------|
| 6.  | 2002 | Large Flood, Flash Flood and<br>Landslide | 14,170     | Northern, Central<br>and Southern     |
| 7.  | 2001 | Flash Flood                               | 808.5      | Central and<br>Southern               |
| 8.  | 2000 | Flood                                     | 6,684.23   | Central and<br>Southern               |
| 9.  | 1999 | Flood                                     | 7,450      | Central                               |
| 10. | 1997 | Flood and Drought                         | 1,860.30   | Southern                              |
| 11. | 1996 | Large Flood and Drought                   | 10,500     | Central                               |
| 12. | 1995 | 1995 Flood 15,000 Central                 | 15,000     | Central                               |
| 13. | 1994 | Flood                                     | 21,150     | Central and<br>Southern               |
| 14. | 1993 | Flood and Drought                         | 21,827.93  | Central and<br>Southern               |
| 15. | 1992 | Flood, Drought and Forest Fire            | 302,151.20 | Central (Fire),<br>Northern (Drought) |
| 16. | 1991 | Flood and Drought                         | 3,650      | Central                               |
| 17  | 1990 | Flood                                     | 100        | Central                               |
| 18. | 1986 | Flood and Drought                         | 2,000      | Central and<br>Southern               |
| 19. | 1985 | Large Flood                               | 1,000      | Northern                              |
| 20. | 1984 | Flood                                     | 3,430      | Central and<br>Southern               |
| 21. | 1981 | Flood                                     | 682        | Central                               |
| 22. | 1980 | Flood                                     | 3,000      | Central                               |
| 23  | 1979 | Flood and Drought                         | 3,600      | Northern and<br>Southern              |
| 24. | 1978 | Large Flood                               | 5,700      | Central and<br>Southern               |
| 25. | 1976 | Flash Flood                               | 9,00       | Central                               |
| 26. | 1974 | Flood                                     | 180        |                                       |
| 27. | 1973 | Flood                                     | 3.7        | Central                               |
| 28. | 1972 | Flood and Drought                         | 40         | Central                               |
| 29. | 1971 | Large Flood                               | 3,573      | Central                               |
| 30. | 1970 | Flood                                     | 30         | Central                               |
| 31. | 1969 | Flood                                     | 1,020      | Southern                              |
| 32. | 1968 | Flood                                     | 2,830      | Central and<br>Southern               |
| 33. | 1966 | Large Flood                               | 13,800     | Central                               |

#### 2.1.2. Drought

In Lao PDR, drought has also occurred with the highest damage losses of 40 Million US\$ in 1988 and 20 Million US\$ in 1989. Since the largest portion of the Lao population lives in rural areas and depends largely on agriculture, they are the most vulnerable to periodic droughts. In recent years, natural disasters resulting from climate abnormalities have resulted in frequent

drought and floods. The following table shows the historical account of damages caused by drought.

| Number | Year | Type of Damage | Damage Losses<br>US\$ (000) | Location                 |
|--------|------|----------------|-----------------------------|--------------------------|
| 1.     | 2003 | Drought        | 16,500                      | Central And<br>Southern  |
| 2.     | 1998 | Drought        | 5,762.70                    | Northern and<br>Southern |
| 3.     | 1989 | Drought        | 20,000                      | Southern                 |
| 4.     | 1988 | Drought        | 40,000                      | Southern                 |
| 5.     | 1987 | Drought        | 5,000                       | Central and<br>Southern  |
| 6      | 1983 | Drought        | 50                          | N/A                      |
| 7.     | 1982 | Drought        | N/A                         | N/A                      |
| 8.     | 1975 | Drought        | N/A                         | Central                  |
| 9.     | 1967 | Drought        | 5,120                       | Central and<br>Southern  |

 Table III: Drought Events and Damage in Lao PDR<sup>7</sup>

#### 2.1.3 Storms

Storm hazard assessments were carried out for four storm return periods (10, 20, 30 and 50 years). The assessment analyzed areas covered in various provinces with regards to storms. Findings show that the Khammouane province is the most vulnerable province in the country. For 50 years return period, a class 3 (178 - 209 km/hr) storm is expected to hit parts of Khammouane province. The hazard assessment was based on the collection of relevant authentic data from various focal departments and agencies. For assessment purposes, well established technical methodologies were used and further validated by the focal departments.

Several typhoons have been reported with the most significant, recent typhoons being Xangsane (2006), Lekima (2007) and Ketsana (2009). These typhoons have rendered colossal losses of human lives, property and agriculture. Compared to floods, storms are more damaging to the economy. The Centre for Research on the Epidemiology of Disasters (CRED)'s data shows that economic losses due to storms are around 305.9 Million USD whilst for floods they come to 22.828 Million USD. Not many reports or data are available for storm events in Lao PDR.

#### 2.1.4. Disease Outbreaks and Epidemics

During the last century, Lao PDR experienced outbreaks of a large range of major communicable diseases such as HIV, tuberculosis, typhoid, cholera, malaria and influenza. However, while communicable diseases have had a significant impact on health in Laos, a communicable disease outbreak has never required large-scale humanitarian assistance. A

<sup>&</sup>lt;sup>7</sup> World Vision-Relief International survey 2009Page **15** of **97** 

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highly lethal and pathogenic strain of influenza virus is now endemic in several countries including Lao PDR and is currently spreading around the world among poultry. The circulating strain of Influenza A, known as A(H5N1), has successfully crossed the species barrier to infect humans. The humanitarian community is concerned that the H5N1 virus will develop the ability to spread effectively from person to person causing a new pandemic.57 Lao PDR has experienced nine outbreaks of A(H5N1) in three waves since 2003,58 resulting in two human casualties in 2007 in Vientiane Province. The first wave resulted in 45 outbreaks with approximately 155,000 poultry deaths resulting from both the disease and culling.61 The first outbreak alone was estimated to cost approximately 4 million USD.62 Except for a few cases in wild birds, most of the confirmed outbreaks occurred in domestic poultry, including chickens, turkeys, geese and ducks. Subsistence farmers own 80% of the poultry in Laos while the remaining 20% of the poultry is commercially produced to serve urban populations.

Given the limited extent of primary health facilities in Lao PDR there are periodic risks of public health epidemics, such as a cholera outbreak which occurred in 1993-94 and later following the floods in Khammouane Province in 1995. Malaria is endemic throughout the country, except in Vientiane, including numerous resistant strains and the deadly *plasmodium falciparum* "cerebral" malaria. The existence of the HIV/AIDS virus is receiving increasing attention in the country and the Lao Red Cross amongst other NGO organizations are developing programmes to expand public education and awareness about the disease and methods by which its spread can be minimized.

#### 2.1.5. Unexploded Ordnance (UXO)

Several districts of Khammouane and Savannaket province have a very high density of UXOs ranging from 2 - 4 UXOs per square kilometer. Several other districts in Huaphanh, Xienghuang, Saravane, Sekong and Attapeu were also identified as areas with a high density of UXOs.

A unique, but quite important hazard experienced by Lao PDR, is the wide distribution about the countryside of unexploded battlefield ordnance (UXO) and still-lethal anti-personnel cluster bombs. These "bombies" as the latter are known locally, only received concerned international attention recently, as the lingering effects of mines in other countries have highlighted the development implications of relics of war. These deadly remains from the Indochina war in the 1960's and early 1970's continue to maim and kill dozens of villagers annually and keep a significant amount of otherwise productive land out of cultivation, particularly in the eastern half, of the southern third, of the country. Other areas adjacent to Vietnam and in the vicinity of the Plain of Jars are also affected although a precise determination of the extent of locations concerned awaits completion of a survey being initiated under a UNDP-financed programme in mid-1996.

The National Regulatory Authority for UXO/Mine Action Sector in Lao PDR (NRA, 2008) is mandated to manage UXO mitigation in the country. UXOs have a lethal history in Lao PDR as they continue to kill large numbers of people and livestock, impede infrastructure development and deny access to agricultural and pastoral lands. Living with the constant fear of UXOs has reduced productivity even in low risk areas where the population lacks alternative livelihoods. Villagers in these poor areas are forced to undertake high risk activities such as farming contaminated land. The victims continue to live in acute poverty and chronic malnutrition; risking injury and death by working on UXO-contaminated land.

#### 2.1.6. Landslides

Slope stability in Lao PDR is related to weather conditions. Landslides usually affect transport infrastructure during the monsoon season in Lao PDR. Rainfall is the main triggering factor for landslide occurrences. Other principal factors influencing landslides include slope gradient, rock condition (lithology) and land use. A large part of the country is located in low to medium landslide susceptibility zones. Only 5.24 % of the country is prone to very high landslide susceptibility. These high susceptibility zones are localized in the southeast and central part of Lao PDR.

Three provinces including Xekong, Attapeu and Borikhamxai have more than 10% of land coverage in high susceptibility zones. High landslide susceptibility zones in Xekong and Attapeu are located in the southeast part of Lao, especially in conservation areas (Xe Xap and Dong Amphan). The high landslide susceptible areas in Borikhamxai (and Khammouane) are also located in conservation areas (Nam Kading and Phou Khao Khouay).

Attapeu, Phongsaly, Xekong, and Houaphan are four provinces with larger medium susceptibility zones. Medium susceptibility zones in Attapeu province have major roads connecting Lao with Vietnam that go through hilly and mountainous areas with a high susceptibility of landslides. Phongsaly has dense road networks within medium and high susceptibility zones in the northern part of Lao PDR. Landslide hazards have been closely related with transportation infrastructure throughout Lao PDR. There are some major roads that cross country borders and traverse through high susceptible landslide zones have high maintenance problems.

#### 2.1.7. Agricultural Pests and Rodent Infestation

Agricultural pestilence, and particularly severe rat infestation is cited as an additional hazard for many subsistence farmers, who can ordinarily expect very modest yields from their small plots. Pestilence is an endemic problem particularly in the highland farming areas in the northern provinces and in the higher elevations of the central and southern provinces. One consequence of the declining number of fallow years maintained in the shifting agricultural systems being experienced from land pressures is a degradation of soil quality and moisture retention which fosters the growth of weed infestation. This, and the increase of pest infestation in the monoculture cropping patterns associated with shifting cultivation further reduces the expected yields of reduced fallow lands.

There are additional concerns in eastern highland districts bordering Vietnam where a specific type of bamboo flowers every ten years, and proves a particular attraction for rats. While this may constitute a natural "early warning system" of increased rat infestation, it is of limited utility without a suitable preventive intervention.

#### 2.1.8. Forest and Land Fires

Given the opportunity to speculate on other disastrous events, government officers at both the central level and in the provinces or districts refer to fire. The perspective at national level tended to focus on fires of some urban or economic consequence, and generally on a particular example as in the case of the destruction of the Vientiane Night Market by fire in 1989. The awareness of fire

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hazards from a local government viewpoint was stated more directly as occurring "regularly" in the villages with "a couple" of bamboo houses being set alight from cooking fires. In all instances of reference though, fire was seen as an incidental event. While its occurrence does no doubt hold importance and loss in a singular locality, or affecting several families or traders, the resulting needs were seen to be responded to by singular acts of public or official welfare. As such, fire was not considered a major element in matters of national policy or developmental objectives.

Other commentators, and particularly external ones writing in the environmental or developmental context, have observed the potentially greater consequence of wildfire on forest resources, and its extensive deliberate use in clearing land for upland "slash and burn", or shifting, agricultural practices. While one figure cited is 100,000 hectares of forest land associated with land clearing for shifting cultivation is damaged by fire each year, the figure is considerably less of a contributor to overall deforestation than the annual loss due to logging practices and encroachment on forested areas by lowland farmers<sup>8</sup>. The cumulative effects of fire on forest cover can have serious consequences though as the forest area erodes and natural regeneration is retarded by the destruction of young trees.

#### 2.1.9 Urban, Environmental or "Technological" Hazards

Commercial or industrial accidents do not yet represent a major source of potential hazards in Lao PDR, but as the economy develops further and the growth of urban and industrial facilities quickens, associated "technological" hazards may grow in importance. Rapid construction and the growth of urban infrastructure in response to an expanding economy frequently is conditioned by expediency rather than safe building practices. The absence of proper building codes and land use regulations which are appropriate to safe practices and the protection of the environment invite the spread of additional hazards to which increasing numbers of people become exposed.

Similarly, uncontrolled growth or inadequate environmental controls in the forestry and mining industries spurred on by increased industrialization can rapidly create situations of potential concern in terms of land and water degradation. The management of forest resources in particular, have a direct bearing on watershed conditions. These, in turn, can affect the future potential for either floods or droughts, both in the immediate locality, or in the case of siltation, further downstream.

Attention also has to be given to the compliance or enforcement of safe building and risk-aversion land use practices if urban or industrial hazards are to be minimized. In this regard, the PDR has issued a Government decree (No. 169 of 3 November 1993) regarding forestry and land use management, but the regulations and implementation procedures remain to be defined and then applied. It is a mark of the Government's intent that this is a task which the Organization for Science, Technology and the Environment in the Prime Minister's Office is presently pursuing.

In urban areas there is a growing concern about the risk of industrial pollution, particularly to water resources, in the absence of pollution standards for industry and mining ventures. Ground water contamination due to inadequate or non-existent waste water treatment has also been noted in Vientiane and other provincial towns. Inadequate storm water drainage in these same towns compounds the problem of effluent contaminating ground water reserves. Drains clogged with

<sup>&</sup>lt;sup>8</sup> Environmental Action\_Plan, pp.20-21.

garbage are another example of how simple inattention can increase a potential risk for local flooding.

#### 2.1.10 Earthquake

Earthquake hazard maps were developed using the MMI scale and results have shown that one fourth of the area of Lao PDR is located in a high earthquake hazard zone. These areas include Xayabury, Bokeo, Oudomxay, Luangnamtha and Phongsaly provinces. More than 30% of the country is located in a moderate earthquake hazard zone, while 43.62% falls in a low earthquake risk zone.

Although the Department of Meteorology and Hydrology (DMH) monitor seismic activity in Lao PDR, limited literature and information is available about seismic activity. Some seismic activity has been reported in the northeastern part of the country. Some of the work related to active fault assessment has been done by the Department of Mineral Resources (DMR) and the Government of Thailand. The current status of research and development reveals more intense work should be carried out in the country for seismic hazard assessment. The Report on Power System Planning Study in the MIH, Lao PDR (ADB, 1998), presents a distribution plot of seismic events for Lao PDR. This gives the evidence of more seismic events in the northwest part of Lao PDR. Some 6.0+ earthquake magnitudes have been reported in the northwest provinces.

#### 2.1.11. Climate Change

As an essentially agrarian country, the Lao PDR is highly vulnerable to the impacts of climate change. Adverse impacts could possibly include increased flood and drought magnitude and damages, reductions in crop yields, decrease water availability, and increase in the number of people exposed to vector and water-borne diseases. Because it is not currently possible to reliably predict the adverse impacts of climate change at the regional and local levels, the strengthening of adaptive capacity to climate variability and extremes has been recommended.

#### 2.2. Underlying Vulnerabilities

Socio-economic conditions in the Lao PDR have seen much improvement in recent years, where in 1993 was ranked 141 out of 173 nations and now is ranked 133 out of 182 nations in 2010. The country remains one of the least developed countries in the world while it does have the capacity to halve the proportion of people whose income is less than US \$1 a day by 2015. The ability of the nation to achieve full and productive employment and decent work for all, including women and young people and halve, between 1990 and 2015, the proportion of people who suffer from hunger is unlikely to be achieved. Their livelihoods depend primarily on agriculture, fisheries and forestry which, in recent years, have been subject to increasingly more frequent floods and drought.

While people living in the flood and drought prone areas have developed ways to deal with the impact of these hazards, their coping capacities has a limit. Poverty is a key determinant of the people's vulnerability to disasters but disasters also cause poverty. Various studies have shown that the poverty in Lao PDR has variety according to the geographical area that attributed to the people vulnerable to floods and droughts. The manner in which socio-economic development and natural resources are managed also has a direct impact on vulnerabilities of the general Page **19** of **97** 

population. Unplanned patterns of human settlement and land use have resulted in increases in the population of people living in the Mekong floodplains. Depletion of forest cover results to increased siltation of major water bodies and soil erosion. Irrigation systems and water conservation measures remain inadequate particularly in the face of an increasing incidence of drought. Exposure to natural hazards is formed around these linkages between physical, social, economic and environmental vulnerabilities that prevent many of its people to live in a safe environment.

## PART II

### NATIONAL DISASTER MANAGEMENT STRATEGY

#### 3. STRATEGY OF DISASTER RISK MANAGEMENT AND RISK REDUCTION

The focus on risk in the search for more effective approaches to disaster management stems from the compelling need to understand more the root causes and underlying factors that lead to disasters. The need to manage risk systematically has been widely appreciated and applied in the industrial, engineering and financial sectors. The innovative application of the generic methodology of the risk management process to disaster management presents a fresh approach to understanding the nature of disasters, preventing their harmful effects, as well as seeking opportunities from their occurrences. In the context of total disaster risk management, it promotes coordination of functions and the diverse skills and disciplines and allows communities to undertake risk management activities that can protect national investments in sustainable development activities.

Efforts to enhance the capacities of communities and coping systems at various levels and sectors towards self-reliance and self-sufficiency in managing disasters effectively must be sustained. Understanding and identifying various types of vulnerabilities (human, social, economic, and environmental) as well as the nature of natural hazards are essential components of such efforts.

#### 3.1 Vision

The Disaster Management Vision of the Lao PR Government as articulated in the National Strategic Plan for Disaster Risk Management (April 2003) identifies four key strategic objectives: (1) safeguard sustainable development and reduce the impacts and damages caused by natural and man-made disasters; (2) shift from relief to mitigation of disaster impacts to community, society and the economy and preparedness before a disaster strikes with emphasis on hazards such as floods, drought, landslide and fire; (3) ensure that disaster management is a joint responsibility of both the government and the people through building community capacity; and (4) promote sustainable protection of the environment and the country's natural wealth such as forests, land and water resources.

#### 3.2 Complementarity to HFA Objectives

The Lao PDR, as a signatory of the Hyogo Framework for Action, is seeking to incorporate those actions with the recommended framework that are appropriate for initiation during the 2012-2015 timeline. The National Disaster Management Committee, through its Secretariat at the National Disaster Management Office, shall be responsible for authorization and coordination of select recommendations from the following key disaster risk reduction objectives. as follows:

• Ensure that disaster risk reduction is a national and a local priority. This objective is attainable by undertaking the following actions: (a.) Formulate policies and legislation in support of disaster risk reduction; (b.) Creation and strengthening of a national disaster risk reduction coordination mechanism or a National Disaster Risk Reduction Platform; (c.) Integration of disaster risk reduction into national development policies and planning; and (d.) Allocate appropriate resources for DRR at the national, provincial and community levels.

• Strengthen sub-national and community-based disaster risk management. The attainment of this objective shall require the following actions: (a.) Decentralize responsibilities and resources for disaster risk reduction; (b.). Promote implementation of community-based disaster risk reduction programs; and (c.) Development of a National Disaster Management Plan that supports activities at the provincial, district and village levels.

• Identify, assess and monitor hazard risks and enhance early warning. This objective requires the following actions: (a.) Conduct national and local risk assessments on a periodic basis to ensure that timely response mechanisms are developed; (b.) Establish and maintain a disaster management information system; (c.) Develop and maintain a multi-hazard early warning system; (d.) Collaborate with international and regional disaster risk reduction stakeholders and (e.) Establish and operationalize Emergency Operations Centers at national and sub-national levels.

• Use knowledge innovation and education to build a culture of safety and resilience. For the Lao PDR to achieve this objective, it shall be required to: (a.) Establish mechanisms for information exchange and networking; (b.) Promote disaster risk management education and training; (c.) Promote gender and cultural sensitivity training as integral component of disaster risk management; (d.) Undertake disaster risk reduction management technical and scientific research; and (e) Promote public awareness of hazards, risks and mitigation strategies.

• Mainstreaming disaster risk reduction strategies into policies and programs of relevant government ministries. This important objective can be attained over time through the inculcation of disaster risk management concepts into national awareness programs focused to: (a.) Promote food security to enhance community resilience; (b.) Integrate disaster risk reduction and response preparedness planning into all sectors of relevant government ministries; (c.) Promote appropriate structural and non-structural mitigation measures into national building codes and (d.) Develop innovative financial instruments for addressing disaster risks.

• Strengthen disaster preparedness for effective response at all levels. This objective is an ongoing set of activities to ensure that a national state of preparedness is maintained in order to respond effectively to anticipated natural disaster episodes: (a.) Strengthen national and sub-national capacity for preparedness and response; (b.) Develop coordinated regional operational mechanisms for emergencies exceeding national coping capacities; (c.) Prepare and periodically update disaster preparedness and contingency planning; and (d) Establishment of emergency funds at national and local levels.

#### 4. DISASTER RISK MANAGEMENT PLAN

Disaster risk reduction is the responsibility of government at all levels and thus the National Disaster Management Plan is a plan of multiple government institutions and stakeholder departments and risk reduction partnerships. It is not possible for a single government institution to comprehensively address disaster risk reduction which should be viewed as a cross-cutting issue of sustainable development. Disaster risk reduction can only be addressed

through the collective effort of both development and disaster management stakeholders in the country. This action plan, agreed upon by all stakeholders, provides the blueprint for initiating and undertaking this collective effort.

The development of the Lao PDR National Disaster Management Plan must incorporate the attributes of a sound and sustainable disaster risk management plan. The following table offers a description of what a disaster risk reduction plan should look like:

| ATT  | RIBUTES OF DISASTER RISK REDUCTION  |
|--|---|
| DISASTER RISK REDUCTION<br>CATEGORIES                                      | ELEMENTS OF SOUND PRACTICE  |
| Sustainable institutional<br>structures and good<br>governance.            | <ul> <li>Strengthening of national disaster management agencies and<br/>establishment of stronger coordination mechanisms.</li> <li>Linking community-led experience with national-level policy making.</li> <li>Improved environmental management and control mechanisms.</li> <li>Strengthen building codes and land use planning.</li> <li>Developing macroeconomic policies and regulatory reforms to<br/>produce an enabling environment conducive to strong public-private<br/>participation.</li> </ul>  |
| Risk identification, monitoring,<br>early warning and public<br>awareness. | <ul> <li>Comprehensive multi-hazard risk, vulnerability, and capacity assessments at all levels.</li> <li>Management and dissemination of knowledge on risk.</li> <li>Effective early warning systems for threats including famine, drought, riverine floods, flash flood, earthquake and severe storms, etc</li> <li>Communication and awareness raising about hazard threats.</li> </ul>  |
| Technical and physical risk<br>mitigation.                                 | <ul> <li>Improved design and construction of physical infrastructure, particularly critical infrastructure (transport networks, communication systems, energy networks etc.) and key public facilities (schools, hospitals etc.).</li> <li>Improved maintenance and repair of physical infrastructure.</li> <li>Well structured land use, planning, and zoning systems.</li> <li>Appropriate structural interventions to reduce risk (e.g. maintenance of wetlands in flood plains).</li> <li>Improved use of climate data to encourage more effective water management, agricultural planning, and health care.</li> </ul> |
| Building resilience, promoting innovation, knowledge and education.        | <ul> <li>"Disaster proofing" livelihoods to make them more resilient in disaster-prone areas.</li> <li>Use of science and technology to develop appropriate livelihoods for populations at risk.</li> <li>Promotion of risk awareness through education at all levels.</li> <li>Improving information on the likely impacts of climate change.</li> </ul>   |
| Risk sharing and risk transfer.  | <ul> <li>Use of insurance and reinsurance instruments (e.g. crop insurance<br/>for farmers).</li> </ul>   |

#### TABLE IV: WHAT DOES DISASTER RISK REDUCTION LOOK LIKE<sup>9</sup>

<sup>&</sup>lt;sup>9</sup> Source: Department for International Development. 2006. Reducing the Risk of Disasters – Helping to Achieve Sustainable Poverty Reduction in a Vulnerable World. Page **24** of **97** 

|   | <ul> <li>Establishment of calamity funds for use in times of crisis.</li> <li>Use of safety nets for the most vulnerable (microcredit and cash transfers).</li> </ul>   |
|---|---|
| Preparedness, effective<br>response and sustainable<br>recovery | <ul> <li>Community-level disaster preparedness incorporating a focus on safe behavior and practices.</li> <li>Well-resources and prepared response systems with a focus on national and local capacity.</li> <li>Ensuring recovery includes efforts to reduce underlying risk factors-including through engagement with decision makers and the public on future efforts to reduce disaster risks.</li> </ul> |

#### 4.1 Disaster Risk Management Framework

The disaster risk management framework developed by the Government of the Lao PDR is appropriately structured both vertically and horizontally to identify and address the threats of hazards at the village, district, provincial, municipal and national levels of society. At the National level, the Government has assigned a National Disaster Management Committee, composed of Minister's and senior representatives of Government bodies and chaired by the Vice Prime Minister, to institute a framework for disaster risk management.

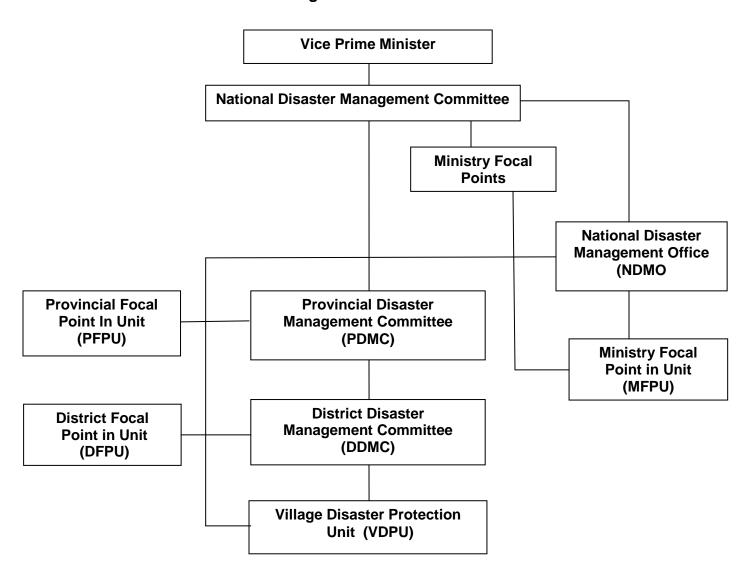
The following table represented the proposed membership, now under review by the Government, to expand the original 13 members noted in the Ministry of Labor and Social Welfare Decree on Assignment of NDMC Roles and Responsibilities of June 30, 2000 to 20 members.

| NDMC Position | Title  | Representing   |  |  |
|---------------|--|--|--|--|
| Chairman      | Vice Prime Minister                              | Ministry of Defense  |  |  |
| Vice Chairman | Minister   | Ministry of Labor and Social Welfare   |  |  |
| Vice Chairman | Minister   | Water Resources and Environment<br>Administration (WREA) – Office of the<br>Prime Minister |  |  |
| Vice Chairman | Vice Minister                                    | Ministry of Public Security  |  |  |
| Vice Chairman | Vice Minister                                    | Ministry of Agriculture and Forestry   |  |  |
| Member        | Vice Minister                                    | Ministry of Foreign Affairs  |  |  |
| Member        | Vice Minister                                    | Ministry of Planning and Investment  |  |  |
| Member        | Vice Minister                                    | Ministry of Public Health  |  |  |
| Member        | Vice Minister                                    | Ministry of Public Works and Transport   |  |  |
| Member        | Vice Minister                                    | Ministry of Education  |  |  |
| Member        | Director General,<br>General Staff<br>Department | Ministry of Defense  |  |  |
| Member        | Chief of Cabinet Office                          | Ministry of Energy and Mining  |  |  |
| Member        | Chief of Cabinet Office                          | Ministry of Industry and Commerce  |  |  |
| Member        | Director General of Budget Dept.                 | Ministry of Finance  |  |  |
| Member        | Chief of Cabinet Office                          | Ministry of Information and Culture  |  |  |
| Member        | Chief of Cabinet Office                          | Postal and Telecommunications<br>Administration – Office of the Prime                      |  |  |

#### Table V: Proposed National Disaster Management Committee

|        |                         | Minister                              |  |
|--------|-------------------------|---------------------------------------|--|
| Member | Director General        | Meteorology and Hydrology Department, |  |
|        |                         | WREA                                  |  |
| Member | Chairman                | Lao Red Cross                         |  |
| Member | Chief of Cabinet Office | Lao Youth Union                       |  |
| Member | Chief of Cabinet Office | Lao Women's Union                     |  |

The following organizational chart represents the current Disaster Management structure:



### Lao PDR National Disaster Management Organization Chart<sup>10</sup>

<sup>&</sup>lt;sup>10</sup> SOURCE : National Disaster Management Office

#### 4.2 Roles and Responsibilities of the National Disaster Management Committee

The responsibility of the NDMC shall be to coordinate disaster risk management in its broader sense including an all hazards approach to mitigation; prevention, preparedness, response and recovery; to oversee the integration of disaster management issues into the sectoral development plans; to recommend to the Prime Minister to declare a state of national emergency and, if required, to request regional/international humanitarian assistance; to oversee the implementation of this policy through the National Disaster Management Office and to make recommendation and advise the Prime Minister.

- The chairperson may co-opt other persons of relevance to the subject of discussion.
- The NDMC will meet twice a year (prior to potential seasonally-prone disaster events), when early warning thresholds indicate need, and when a disaster strikes.
- The NDMC shall establish a permanent agenda for these meetings that must review response, prevention/mitigation, and preparedness relating to an all-hazards approach.
- The NDMC shall establish sub committees in accordance with an all hazard approach to hasten the decision making process. These committees shall be obliged to report their recommendations to the NDMC.

A brief description of some of the individual roles to be played during pre-disaster, ongoing and post-disaster periods are provided in Annex A of the Draft National Disaster Management Plan while given below is a sampling of various proposed tasks for NDMC members.

**Ministry of Defence**: Serve as the Chairman of the NDMC; Assist communities in evacuation and rescue the trapped groups and individuals; Provide essential medical assistance as required and transport injured to the hospitals; Undertake aerial and field assessment in collaboration with other stakeholders to identify needs of survivors; Deploy military resources for provision of relief to the survivors in collaboration with other stakeholders; Develop a disaster preparedness and response plan for the involvement of Lao PDR military in response and relief operations in different parts of the country; Coordinating mitigation activities in post disaster periods; Assist civilian authorities in the reconstruction and rehabilitation of infrastructure as needed.

**Ministry of Labor and Social Welfare:** Serve as the Vice-Chair and assigned responsibility for the management of the National Disaster Management Office for organizing and coordinating preparedness, prevention, mitigation and recovery activities in pre-disaster periods; During disaster events and post-disaster periods; promoting disaster management training for Lao PDR employees and the public countrywide; Acting as the center for disaster management information, assessments, collection and production of reports on an annual basis; and coordination of organizing of relief supplies, shelter and other resources following a disaster episode; Supports all activities in the National Disaster Management Plan linked to the NDMC, NDMO and the MLSW.

**Water Resources and Environment Administration (WREA):** Serve as the Vice-Chair and assigned responsibility for the preparation of flood protection plans for the country; Review and approve flood control / protection schemes prepared by provincial governments and concerned federal agencies; Make recommendations regarding principles of regulation of reservoirs for flood control; Review of damage to flood protection works and review of plans for restoration and reconstruction works; Measures for improvement of flood forecasting and warning system; Prepare a research program for flood control and protection; Standardize designs and specifications for flood protection works; Evaluate and monitor progress of the National Flood Protection Plan Implementation; Monitor the provincial government's implementation of the national Flood Protection Plan.

**Ministry of Public Security:** Serve as the Vice-Chair; shall appoint a disaster management contact person from the Ministry and establish focal points at the provincial, district, institutions and major hospitals as needed; and organizing specialized disaster response training for medical teams prior to the onset of disaster events. Responsible for coordinating the direct involvement of medical teams in emergency operations offering first aid and health care in addition to preparing death certificates of disaster victims; shall stockpile medications and supplies for use in any disaster episodes; responsible for hygiene and disease vector control.

**Ministry of Agriculture and Forestry:** Serve as Vice-Chair of the NDMC; shall appoint a disaster management contact person from the Ministry; Ensure a sectoral risk assessment exercise and prepare risk reduction action plan involving all its departments.; Ensure budgetary provision to support implementation of a sectoral risk reduction action plan; Develop programmes for research with regard to hazard analysis and its affect in agriculture; Responsible for joint relief with agricultural seeds and animal husbandry to disaster affected victims; Support in institutionalizing training on disaster risk reduction approaches in agriculture and forestry sectors; Instruct Ministry staff to undertake awareness initiatives among communities on the importance of disaster risk reduction.

**Ministry of Foreign Affairs:** Serve as Vice-Chair of the NDMC; shall appoint a disaster management contact person from the Ministry and, in the event of a national calamity or devastating disaster episode, shall seek international assistance following permission from the Lao PDR government; Liaison with the NDMC in order to ensure collaborative efforts for disaster risk reduction and preparedness; Develop operating procedures to fast track the requests for aid, facilitate deployment of international response teams, and receipt of relief in case of an emergency; Develop and maintain inventory of Embassy focal points for disaster preparedness and other aid giving organizations in order to quickly organize requests for assistance in case of disaster; Coordinate with foreign countries to receive aid in the case of a major catastrophe; Coordinate with international technical organizations and relevant UN agencies to receive technical and financial assistance for disaster risk reduction and preparedness.

**Ministry of Planning and Investment:** Serve as a member of the NDMC; Ensure that national policy and legal framework exist with decentralized responsibilities and capacities at all levels; Dedicated and adequate resources are available to implement disaster risk reduction plans and activities at all administrative levels; Community participation and decentralization are ensured through the delegation of authority and resources to local levels; Systems are in place

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to monitor, archive and disseminate data on key hazards and vulnerabilities; Disaster risk reduction measures are integrated into post disaster recovery and rehabilitation processes.

Ministry of Public Health: Serve as a member of the NDMC; shall appoint a disaster management contact person from the Ministry and establish focal points at the provincial, district levels; Identify hospitals and health facilities that are located in hazard-prone areas, analyze their internal and external vulnerability during emergencies, and increase the hazard resilience of such hospitals; Prepare and implement hospital disaster preparedness plan for such facilities to be able to deal with emergency situations; Prepare plans and SOPs for tracking and evacuations of mass casualties as a result of a major disaster; Develop health care personnel proficient in disaster response (including improved education of nurses, emergency medical technicians, and doctors to have improved knowledge and preparedness of disaster management; Increase knowledge of psychiatrics on rehabilitative dimensions of disasters along with the health care of internally displaced people and women and children issues: Establish Emergency Medical Cells to ensure better coordination in disaster situations; Set-up medical camps and organise Medical Mobile Teams (MMTs) to be sent to the scene of disaster with minimum delay; Ensure communication links between hospitals and the scene of disaster; Build acute health care system for post disaster response through strengthening the existing district development system; Establish a system of high readiness and list of personnel to be mobilized when warning is received or impact of disaster reported.

**Ministry of Public Works and Transport:** Serve as a member of the NDMC; Planning and execution of disaster plans in collaboration with other NDMC representatives; Engage in public awareness activities which will strengthen the Lao PDR capacity to mitigate against, prepare for and respond to hazard impacts; Working alongside several other first responder government agencies to effectively and efficiently deal with the effects of disasters; Assist with the restoration and improvement where appropriate, of facilities, livelihoods and living conditions of disaster affected communities, including efforts to reduce disaster risk factors.

Ministry of Education: Serve as a member of the NDMC; Shall appoint a disaster management contact person from the Ministry and establish focal points at the provincial, district and educational institutional levels as needed; Integrating disaster management concepts into education programs in schools, organize disaster management training on living with natural hazards and managing environmental issues for teaching staff and students; Responsible for the evacuation of students and general population to emergency shelters in schools in the event of a disaster; Identify and inventory the vulnerable educational institutions and infrastructure of the Ministry in hazard-prone areas; Implement actions to reduce vulnerability of the built infrastructure in education sector in hazard-prone areas, e.g. retrofitting, renovation, rebuilding etc; Encourage local educational authorities and teachers to prepare school disaster response plans and their implementation; Allocate funds for safer construction and disaster preparedness activities at school, college, and university levels in hazard-prone areas.

**Ministry of Energy and Mining**: Serve as a member of the NDMC; Designate one responsible person in the Ministry as the disaster management Focal Point; Issue necessary directives to the respective staff on their duties and responsibilities as a precautionary for disaster and post disaster situations; Prepare a sectoral risk assessment and a risk reduction action plan of the Ministry; Ensure a budgetary provision of the Ministry for its risk reduction

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and management activities; Undertake and mange risk reduction programs to ensure the resilience of infrastructure to hazards, and to reduce the vulnerability of services and systems; Undertake planning to ensure uninterrupted services during hazard impacts; Issue detailed instructions to the employees about their duties and responsibilities at precautionary, disaster and post-disaster stages of natural disasters; Arrange regular workshop/on-the job training for working employees in disaster areas on disaster issues.

Ministry of Industry and Trade: Serve as a member of the NDMC; Shall appoint a disaster management contact person from the Ministry; Develop safety standards for industrial factories and other processing activities; Managing safety standards for the use of chemicals, toxic substances in industry and their impact on the environment and the public; Promote specialized training related to handling dangerous materials and industrial accidents; Mainstream disaster management principles and practices in development planning processes of the Ministry; Develop research programs with regard to hazards analysis: Ensure that disasters are timely assessed by Ministry officials for damages and losses and for recovery strategies; Implement an emergency sectoral response system; Ensure disaster risk management issues are considered when constructing new factories or Industries: Develop business continuity policy and procedures at industry and higher levels; Prepare sectoral risk reduction action plan; Ensure budgetary provisions of the Ministry for disaster management activities; Establish a risk communication system of the Ministry.

**Ministry of Finance:** Serve as a member of the NDMC; Shall appoint a disaster management contact person from the Ministry; Shall be responsible for the reserve and delivery of government funding for disaster activities upon the approval of the NDMC; Propose, on behalf of the NDMC, government funding for short, medium and long term mitigation and recovery activities.

Ministry of Information and Culture: Serve as a member of the NDMC; Shall appoint a disaster management contact person from the Ministry and establish focal points at the provincial, district and institutional levels as needed; Develop a communication action plan to ensure the availability of communication services in case of the occurrence of a disaster: Train the communications staff of the ministry and the private sector media personnel with the electronic, and print media to raise their awareness about disaster risks and the role of media in promoting community preparedness; Initiate timely early warning information, emergency operations, and mitigation information broadcasts through multi-media services; Coordinate with the NDMA to receive information about the disaster risks and preparedness strategies, particularly about community preparedness; Promote disaster management public awareness and education media broadcasting programs and publications on environmental protection of natural resources.

Postal and Telecommunications Department: Serve as a member of the NDMC; Increase sharing of knowledge on policy options, strategies and best practices for ICT connectivity; Establish and maintain communications (telephone, fax, email); Design and implement awareness and public education programmes in cooperation with the NDMO including individual, family and community prevention, preparedness and response actions, warning signals and their meaning; Prepare agency disaster response contingency plans to protect the staff, equipment and spare parts from disaster impacts; Broadcast individual and household measures to save lives and livelihoods; Create mass awareness through radio broadcasting;

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Arrange broadcasts of information relating to proper execution of building codes for earthquake and flood risk mitigation; Arrange broadcasting of the government instructions/standing orders on disaster management; Broadcast programmes for the people of the affected areas.

**Meteorology and Hydrology Department**: Serve as a member of the NDMC; Have overall responsibility for hydrometeorology early warning information services countrywide; Observe hazard situations and generate meteorological, and geophysical data; Analyze data for issuing forecasts and warnings for aviation, agriculture, transport, etc: Issue forecasts and warnings for any approaching events that might cause damage and loss to life and property; Disseminate warning about hazards to relevant users through speedy communication; Scrutinize, compare and publish data for appraisal of long term weather trends and earthquakes; Analyse extreme events observed in the past and their future trends; e.g. climate change, weather modification, land-ocean-atmosphere interaction, seasonal weather prediction.

Lao Red Cross: Serve as a member of the NDMC; Shall appoint a disaster management contact person from the Lao Red Cross as a Focal Point; Develop disaster preparedness and response plans at national level and for all branch offices in the high risk areas Develop teams of volunteers for disaster preparedness and response; Train the volunteers in emergency preparedness and response (e.g. evacuation, first aid, fire fighting, early warning etc). Responsible for initiating rapid assessments and producing disaster information following a disaster event; Responsible for joint emergency operations in rescue and relief provision for disaster affected persons; Initiate joint mobilization of relief assistance with Red Cross/Red Crescent partners; Work closely with local authorities in conducting joint assessments of damages and losses and needs of disaster survivors. Organize disaster management training, drills and exercises for the Lao Red Cross volunteers and the general public.

**Youth Union**: Serve as a member of the NDMC; Organize youth to play a major role as interpreters and conveyers of disaster risk messages to their households and communities; Addressing vulnerabilities related to health, environment, education, religion, household economic security and other sectors, which impact together on a community and individual's wellbeing; Direct involvement in disaster management work to create a better sense of community and civic consciousness; Support post-recovery and reconstruction undertaken by village, district and provincial authorities.

**Women's Union:** Serve as a member of the NDMC; Give special attention to the social, cultural and economic needs of women, children and most disadvantaged groups in disaster and risk management by using participatory tools such as vulnerability and capacity assessments; Raise awareness of the decision makers and Government about the special vulnerabilities and capacities of women disaster episodes; Promote awareness among women in hazard-prone areas about disaster risks and disaster preparedness; Develop capacities of women's organizations on disaster risk reduction and preparedness; Make institutional arrangements for involvement of women in disaster situations during the relief, rehabilitation and reconstruction phases; Facilitate participation of women in the management of relief, rehabilitation and reconstruction activities; Support post-disaster rehabilitation of livelihoods of women survivors..

#### 4.3 Role and Responsibilities of the National Disaster Management Office

The National Disaster Management Office (NDMO) serves as the Secretariat to the National Disaster Management Committee (NDMC) with responsibilities that include: preparation of national disaster and emergency response plans and strategic policy coordination of all disaster relief operations in the Lao PDR. At the discretion of the Prime Minister's Office, the NDMO serves as the lead agency for the Government of Lao PDR in regional and international disaster management cooperation. This includes sectoral areas of disaster management such as information gathering, sharing, early warning, surveillance, joint training, and common standards and protocols required for regional and international cooperation.

The NDMO is also intended to:

- Providing expert advice to the NDMC.
- Promoting coordination with ministerial focal points.
- Promoting disaster mitigation and preparedness activities at the local level.
- Implementing community awareness activities.
- Providing training, guidelines and plans to make disaster risk management more effective.
- Establishing disaster management implementation teams at the national, provincial and district levels

Additional tasks have been developed for the National Disaster Management Office, along with an expanded organizational structure and staff capacity, as noted in Annex B as a recommendation for consideration by the National Disaster Management Commission to overcome current constraints impeding the growth and development of disaster risk reduction.

#### 4.4 Role of Provincial, District and Village Structures and Responsibilities

Each Provincial government is expected to form a Provincial Disaster Management Committee (PDMC) chaired by the Governor. Other members of the Committee will include disaster preparedness and response stakeholders from the public sector, police and armed forces, civil society organizations, representative from Industry, leaders of religious organizations, prominent residents in the Province and one person representing the Lao Red Cross. The National Disaster Management Office shall offer technical and capacity building support to provincial, district and village level initiatives

The PDMC is the pivotal point for the implementation of disaster management resources in the Province. Each PDMC will be a channel for information and resources and be a link between national objectives and provincial priorities. The Governor will appoint one senior official to be responsible for the coordination of disaster management activities in the Province.

As the coordinating body in the province for disaster risk management, the PDMC shall:

- Prepare a Provincial Disaster Management Plan based on district level risk assessments and viable preparedness, mitigation and response strategies.
- Continuously monitor the hazards, risks, and disaster threats and the conditions of vulnerable populations within the region.

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- Conduct vulnerability analyses on emerging disaster prone areas and prepare recommendations on reducing their vulnerability.
- Identify training needs and conduct training and public awareness.
- To mobilize and coordinate all intervention from other agencies at the time of emergencies.
- To ensure that compatible disaster management fully reflect national priorities and guidelines
- To support the implementation of disaster management programs agreed for the Province.
- Mobilization of needed financial and material resources for disaster management.

At the district level, a District Disaster Management Committee (DDMC) is to be established with a district representative as the chairperson and members comprising all district level department heads, NGO leaders and civil society members. The committee is required to meet bi-monthly during normal period and as and when necessary during emergency situation.

There is to be a plan for each District titled "District Disaster Management Plan" comprising both disaster risk reduction and emergency response to be prepared by the District Disaster Management Committee. The DDMP should highlight and articulate, among others, the following:

- The areas in the district vulnerable to different forms of hazards and risks,
- Total resource requirements and planned actions for the district to undertake in prevention and mitigation of disasters by government agencies, NGOs, and the private sector within the district,
- Procurement of emergency supplies,
- Operation of disaster shelters,
- Restoration of emergency services, such as water supply, gas supply, power, telecommunication, road links,
- Provision of emergency medical services,
- Recovery plans and procedures delineating damage assessment procedure,
- Restoration of damaged public infrastructure, resumption of educational institutions, and
- Restoration of livelihood, rehabilitation of affected people, especially the disabled, and elderly women and children.

The Village Disaster Protection Units are underway in a small number of communities at the moment. These institutions are the frontline of disaster management where disaster preparedness and civil protection systems are being developed. Through the village committee, lead by a traditional village leader, the following activities are being undertaken:

- Preparation of plans and procedures for disaster management programs in their respective locations,
- To take operational control in the event of a disaster or emergency so as to ensure that support is provided to the affected households,
- Mobilization of needed financial and material resources for disaster management,
- Identification and mapping of all hazards in their respective location and conduct risk and vulnerability analysis, and
- Establishment of civic groups for disaster reduction and relief operations.

#### 4.5 Roles for Regional/International Supporting Agencies

**The NGOs** - NGO's are important partners in disaster management activities. NGO's are often able to respond flexibly and rapidly to urgent needs of disaster. In order to forge a closer link between them and the disaster management authorities, the Disaster National Management Office shall:

- Encourage them to participate in disaster management activities aimed at reducing vulnerability of the community and high-risk individuals. In specific terms NGO's will be encouraged to participate in training, public education, damage assessment, rehabilitation and construction projects in disaster stricken areas.
- Extend invitations to NGOs to participate in the development of disaster management plans at all levels for the purpose of resource mobilization and information sharing on disaster preparedness, mitigation, and early warning and response roles. NGOs shall link up with the NDMO to ensure that the strategic policy and operational implementation incorporates their participation.
- NGOs and other disaster stakeholders will ensure their participation comply fully with international standards of relief and human rights.

In the Lao PDR non-governmental organizations have created a Disaster Risk Management Working Group with the objective of (a.) facilitate knowledge management, (b.) develop lessons learned, (c.) collaborate together with all disaster risk reduction stakeholders, (d.) develop joint action programming, and (e.) work in a coordinated manner with the Government of the Lao PDR and other risk reduction stakeholders. The participation of the NDMO in periodic meetings will facilitate the interface between the NGOs and the Government on disaster risk management.

**UN Agencies -** The UN Agencies, including FAO, ISDR, OCHA, UNDP, UNHCR, UNICEF, WFP and WHO, are crucial in supporting disaster risk management programs in preparedness, mitigation, response and rehabilitation and recovery phases. Specifically these agencies will:

- Participate in National Disaster Management forums for the purpose of information and experience sharing.
- Participate in Technical Committees dealing with specific disaster types.
- Provide financial and technical support for the development of sustainable disaster management preparedness and response capacity with key stakeholders in addition to responding to humanitarian crises.

The Inter-Agency Standing Committee (IASC) has proposed the formation of an Emergency and Disaster Preparedness and Response Coordination body in concert with the National Disaster Management Office with the purpose of coordination of activities between various government ministries and the humanitarian agencies to prepare for, respond to and mitigate emergencies and disasters in the Lao PDR.

#### 5. ACTION PLAN FOR DISASTER RISK REDUCTION

The Action Plan for Disaster Risk Reduction specifies the actions necessary to establish an effective disaster risk reduction mechanism in the Lao PDR capable of fulfilling the roles and responsibilities set out in the Disaster Management Plan.

#### 5.1 NATIONAL DISASTER MANAGEMENT PLAN ACTION MATRIX 2012 - 2015

| Strategic Goal  | Key Targets   | Expected<br>Outcomes  | Action Agenda for 2012-<br>2015   | Lead Ministry/<br>Agency                            | Supporting<br>Ministry/Agency                                     |
|---|---|---|---|---|---|
| 1.  | 2.  | 3.  | 4.  | 5.  | 6.  |
| Professionalizing<br>the disaster<br>management<br>system | 1.1 Establish a<br>Disaster<br>Management<br>Regulative<br>Framework  | 1.1.1 A legal, policy and<br>planning framework that<br>makes disaster risk<br>reduction a mandatory<br>requirement at all levels.                | 1.1.1.1 Review and revise key<br>disaster management policy<br>and planning instruments<br>reflecting broader risk<br>reduction functions.1.1.1.2 Enact Disaster<br>Management Decree and<br>formulate rules.1.1.1.3 Develop, approve and<br>implement Disaster<br>Management Policy and Plans.1.1.1.4 Revise work plans in<br>relation to NDMO mandates.1.1.1.5 Develop Standing<br>Orders/Procedures (SOPs) in<br>line with Comprehensive<br>Disaster Risk Reduction and<br>Emergency Management<br>Approach. | Ministry of Labor<br>and Social<br>Welfare,<br>NDMO | Ministry of<br>Public Security<br>Office of the Prime<br>Minister |
|   | 1.2 Implement a<br>learning and<br>development<br>strategy to facilitate<br>the professional<br>development of<br>NDMC and NDMO<br>and key personnel<br>from government,<br>NGOs and the<br>private sector. | 1.2.1 A professional and<br>competent disaster<br>management workforce<br>that is demonstrating<br>effective national and<br>regional leadership. | 1.2.1.1 To ensure that risk<br>reduction is a mandated<br>requirement for all disaster<br>management programmes.<br>1.2.1.2 Enhance professional<br>skills and knowledge of NDMO<br>and selected other key<br>implementing agency staff on<br>disaster risk reduction,<br>preparedness, warning and<br>forecasting system, and post-  | All NDMC<br>members<br>NDMO                         | Ministry of<br>Education  |

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|  | 1.3 Design and  | 1.3.1 All policy level  | disaster recovery activities.<br>1.2.1.3 Develop a learning and<br>development framework for<br>disaster management<br>professionals.<br>1.2.1.4 Promote, design and<br>implement research and<br>evaluation programmes on<br>disaster management.<br>1.3.1.1 Develop an  | Ministry of  | Relevant ministries   |
|--|---|---|---|--|---|
|  | implement training/<br>awareness raising<br>programs targeting<br>national and district<br>level policy officials.                | officials are aware of the<br>disaster management<br>concepts and basic<br>frameworks.  | introductory training course for<br>disaster management.<br>13.1.2 Design and implement<br>the training programme for the<br>policy officials at all levels.  | Education<br>Ministry of Labor<br>and Social Welfare<br>WREA, NDMO | INGO Disaster<br>Risk Management<br>Working Group   |
| 2.0<br>Mainstreaming<br>Disaster Risk<br>Reduction | 2.1. Risk reduction<br>principles<br>and practices are<br>mainstreamed<br>within all<br>development<br>programmes<br>and policies | <ul> <li>2.1.1 NDMO is recognized as a key partner in development planning and policy making.</li> <li>2.1.2 Development project appraisal process includes disaster risk reduction issues</li> </ul> | <ul> <li>2.1.1.1 Identify relevant development policy and planning frameworks, develop and establish mechanisms to ensure risk reduction is a national and local priority.</li> <li>2.1.1.2 Develop Disaster Impact and Risk Assessment (DIRA) tool for all hazards and incorporate into national and provincial planning.</li> <li>2.2.1.3 Develop and implement an advocacy strategy to facilitating incorporation of disaster risk reduction within development policy and plans.</li> <li>2.1.1.4 Design and implement capacity building training to strengthen relevant planning capability at national and local levels.</li> <li>2.1.1.5 Incorporate disaster</li> </ul> | Ministry of<br>Planning and<br>Investment<br>NDMO<br>NDMO<br>NDMO  | Water Resources<br>and Environment<br>Administration<br>Ministry of<br>Agriculture and<br>Forestry<br>INGO Disaster<br>Risk Management<br>Working Group |

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| and<br>planscapability at all levels.capability at all levels.NDMOIASCplanscapability at all levels.capability at all levels.capability at all levels.capability at all levels.NDMOIASCcapability at all levels.capability at all levels.capability at all levels.capability at all levels.NDMOIASCcapability at all levels.capability at all levels.capability at all levels.capability at all levels.NDMONDMOcapability at all levels.capability at all levels.capability at all levels.capability at all levels.NDMONDMOcapability at all levels.capability at all levels.capability at all levels.capability at all levels.NDMONDMOcapability at all levels.capability at all levels.capability at all levels.capability at all levels.NDMONDMOcapability at all levels.capability at all levels.capability at all levels.capability at all levels.NDMONDMOcapability at all levels.capability at all levels.capability at all levels.capability at all levels.NDMONDMOcapability at all levels.capability at all levels.capability at all levels.capability at all levels.NDMONDMOcapability at all levels.capability at all levels.capability at all levels.capability at all levels.not capability at all levels.not capability at all levels.NDMO |   |
|---|---|
| and plans capability at all levels. frameworks and documents 2.2.1.3 Review and revise the policy and planning documents incorporating disaster risk reduction issues. 2.2.1.4 Develop and implement an advocacy strategy facilitating incorporation of disaster risk reduction issues. 2.2.1.5 Prepare a monitoring and evaluation guideline IASC, NGOS  |   |
| risk reduction approaches in all<br>ongoing/future<br>plans, programs, and policies.<br>2.1.1.6Planning and<br>Investment2.2 Mainstreaming<br>disaster<br>risk reduction<br>issues in all<br>the sectoral policies2.2.1 Sectoral damage<br>and loss from disaster<br>episodes on the decline.<br>2.2.2 Strengthened<br>the sectoral policies2.2.1 Sectoral damage<br>and loss from disaster<br>episodes on the decline.<br>2.2.2 Strengthened<br>the sectoral policies2.2.1 Sectoral damage<br>and loss from disaster<br>episodes on the decline.<br>2.2.2 Strengthened<br>relevant2.2.1.1 Establish focal points<br>within relevant ministries and<br>departments.All NDMC<br>MinistriesNDMO<br>All Relevant<br>Ministries   | t |

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| Institutional | Disaster  | aware of their roles and   | relation to risk reduction and  |  | Ministries, INGO  |
|---------------|---|--|---|--|---|
| Mechanisms    | Management<br>Committees at all<br>levels.  | responsibilities.<br>3.1.2 NDMCs at all<br>levels are functional and<br>carrying out their<br>mandated jobs during<br>both normal and                                | emergency response process.<br>3.1.1.2 Identify national,<br>regional, sub-regional and<br>local institutional mechanisms<br>including informal systems and<br>undertake an audit to validate   | NDMO                                     | Disaster Risk<br>Management<br>Working Group,<br>Development<br>Partners                        |
|               |   | emergency periods and<br>post emergency<br>situations in accordance<br>to developed policies,<br>procedures and<br>institutional linkages                            | roles and linkages.<br>3.1.1.3 Design and implement<br>a national training strategy<br>aimed at building knowledge<br>and understanding of disaster<br>management roles and<br>responsibilities of key players<br>at all levels as per SOPs.                              | Ministry of<br>Education                 |   |
|               |   |  | 3.1.1.4 Promote development<br>and establishment of the<br>National Disaster Management<br>Plans at all levels.   | All NDMC<br>members                      |   |
|               |   |  | 3.1.1.5 Establish local level<br>contingency planning<br>frameworks with provision of<br>resources for risk reduction.  | PDMC<br>DDMC<br>Village<br>Committees    |   |
|               | 3.2 Create a<br>national training<br>capacity to sustain<br>and<br>progressively<br>expand disaster<br>risk management<br>training efforts. | 3.2.1Disastermanagementtrainingand research capacity isestablishedandfunctioning.3.2.2Disastermanagement is taught inpublic training courses3.2.3All training events | 3.2.1.1 Establish within NDMO<br>capacity for disaster<br>management, training and<br>research department.<br>3.2.1.2 Develop and implement<br>a national training policy to<br>enhance competencies and<br>skills for effective disaster risk<br>reduction and emergency | NDMO<br>NDMO<br>Ministry of<br>Education | Ministry of<br>Planning and<br>Investment;<br>Ministry of<br>Education<br>NDMO<br>Lao Red Cross |
|               |   | use the updated module for disaster management   | response.<br>3.2.1.3 Incorporate disaster<br>risk reduction issues into the<br>training curriculum of all public<br>sector training institutes.   | All Relevant<br>Ministries               |   |

|  | 3.3 Develop a<br>national monitoring  | 3.3.1 A common pre-<br>and post-training  | <ul> <li>3.2.1.4 Incorporate disaster risk reduction issues into the training curriculum for: <ul> <li>local government public representatives and officials at all levels.</li> <li>teachers at all levels.</li> </ul> </li> <li>3.2.1.5 Conduct TOT and capacity building training for the teachers and instructor of different national training institutions on the revised curriculum.</li> <li>3.2.1.6 Promote gender, cultural and sensitivity training as integral components of education and training for disaster risk reduction.</li> <li>3.3.1.1 Develop a common methodology to monitor and</li> </ul> | Ministry of<br>Education<br>Ministry of<br>Education<br>NDMO<br>All Relevant<br>Ministries<br>NGOs<br>NDMO<br>Lao Red Cross | NDMO<br>All Relevant<br>Ministries       |
|--|---|---|--|---|--|
|  | and evaluation<br>system to enable<br>the effectiveness of<br>the training strategy<br>to be measured.          | assessment tool is in<br>place to monitor the<br>disaster management<br>training programmes of<br>the public training<br>institutes.  | evaluate the disaster<br>management training<br>programs.<br>3.3.1.2 Establish a monitoring<br>and evaluation mechanism<br>about when and what to<br>monitor by whom.<br>334.1.3 Establish a reporting<br>mechanism.   | Ministry of<br>Education  |  |
| 4.0<br>Empowering At<br>Risk<br>Communities. | 4.1 Develop and<br>establish a<br>standard<br>assessment<br>procedure to<br>identify community<br>and household | 4.1.1 Communities have<br>a greater understanding<br>of their risks and<br>vulnerabilities to hazards<br>and strategies for<br>reducing or managing<br>their all-hazards risks. | 4.1.1.1 Identify and document<br>community and household<br>level all-hazards risks with<br>special emphasis on risks of<br>women, children, the elderly<br>and the disabled, following the<br>standard assessment   | NDMO<br>Ministry of Labor<br>and Social<br>Welfare,<br>Women's Union,<br>Youth Union<br>Ministry of Public                  | NDMO<br>NGOs,<br>Development<br>Partners |

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| level risks  |   | procedures.   | Security  |   |
|--|---|---|---|---|
| 4.2 Establish a<br>disaster risk<br>reduction action<br>planning<br>framework.                     | 4.2.1 Disaster risk<br>reduction action plans for<br>all hazards, all risks and<br>all sectors are produced<br>and endorsed by the<br>relevant DMCs at all<br>levels<br>4.1.2 Government and<br>donor funding targeting<br>strategies identified<br>within the local level risk<br>reduction plans. | <ul> <li>4.2.1.1 Develop a disaster risk reduction action planning template through pilot testing.</li> <li>4.2.1.2 Prepare risk reduction action plans for all high risk districts communities and endorsed by the respective DMCs.</li> <li>4.2.1.3 Design and implement an advocacy strategy to ensure execution of the plans by the respective concerned authorities</li> </ul> | NDMO<br>Ministry of<br>Defense,<br>NGOs<br>NDMO   | NDMO<br>Relevant Ministries<br>Water Resources<br>and Environment<br>Administration |
| 4.3 Strengthen<br>community<br>and household<br>level capacity<br>to withstand<br>disaster events. | 4.3.1 Community and<br>households are better<br>prepared to cope with<br>disaster events.   | <ul> <li>4.3.1.1 Design and implement<br/>skill and knowledge based<br/>training programme for DMCs.</li> <li>4.3.1.2 Organize community<br/>level drills.</li> <li>4.2.1.3 Design and implement<br/>livelihood support programmes<br/>for at risk communities,<br/>particularly women, the elderly,<br/>the disabled and other<br/>disadvantaged groups.</li> </ul>                | NDMO<br>Lao Red Cross<br>NGOs<br>Ministry of Public<br>Security<br>Ministry of<br>Information and<br>Culture,<br>Ministry of<br>Education | All Relevant<br>Ministries, NGOs  |
| 4.4 Reduce<br>vulnerability of<br>the at risk<br>communities<br>through social<br>safety nets      | 4.4.1 Protect the needs<br>of the poor, particularly<br>women, children, the<br>elderly the disabled and<br>Other disadvantaged<br>population of at risk<br>communities against<br>seasonality and shocks.  | <ul> <li>4.4.1.1 Establish guidelines<br/>and procedures to design and<br/>implement the target activities<br/>and other safety net programs.</li> <li>4.4.1.2 Establish an effective<br/>targeting mechanism.</li> <li>4.4.1.3 Establish an effective<br/>monitoring and support<br/>mechanism to ensure proper<br/>execution of the guideline and</li> </ul>                      | Ministry of Labor<br>and Social Welfare<br>NDMO   | NDMO<br>NGOs  |

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| 5.0 Expanding<br>Risk Reduction<br>Programming<br>across hazards<br>and sectors | Across Hazards:<br>5.1 Update hazard<br>risk and<br>vulnerability maps.  | 5.1.1 Local/National<br>development plans are<br>developed on the basis<br>of the updated hazard<br>maps.   | avoidance of political<br>influences and leakages.<br>4.4.1.4 Policy advocacy to<br>ensure continuity of the<br>allocations for safety net<br>programmes in the annual<br>budget.<br>5.1.1.1 Conduct Hazard Risk<br>Analysis and produce updated<br>hazard maps.   | Ministry of Finance   | Sectoral Ministries,<br>Development<br>Partners   |
|---|--|---|--|---|---|
|   | 5.2 Establish an<br>integrated<br>approach to<br>disaster<br>management of all<br>hazards including<br>climate change and<br>climate variability<br>impacts. | 5.2.1 Scientific analysis<br>including climate change<br>impacts is guiding all<br>hazards risk assessment<br>processes.<br>5.2.2 Timely all hazards<br>risk information readily<br>available in user friendly<br>format to key<br>stakeholders and<br>development planners.<br>5.2.3 Research gaps are<br>influencing government,<br>donor and private sector<br>priorities.<br>5.2.4 Disaster<br>management<br>stakeholders are<br>updated on all hazard<br>risks including climate<br>change and climate<br>variability impact<br>knowledge. | <ul> <li>5.2.1.1 Establish NDMO networking with WREA on climate change adaptation activities.</li> <li>5.2.1.2 Develop scenario and prediction models to determine climate change and climate variability impacts.</li> <li>5.2.1.3 Conduct research to determine hazard risks including climate change and climate variability impacts for Lao PDR.</li> <li>5.2.1.4 Strengthen existing knowledge and information accessibility on hazard risks and impact prediction</li> <li>5.2.1.5 Identify adaptation options through action research.</li> <li>5.2.1.6 Support a hazard risks information library, database and knowledge information</li> </ul> | Water Resources<br>and Environment<br>Administration<br>Hydrology and<br>Meteorology<br>Department<br>Technological<br>Institutions | NDMC, NDMO<br>Technological<br>Institutions, Water<br>Resources and<br>Environmental<br>Administration,<br>NGOs/<br>Development<br>Partners |

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|                                     |                            | network.                          |                            |                      |
|-------------------------------------|----------------------------|-----------------------------------|----------------------------|----------------------|
|                                     |                            | 5.2.1.7 Incorporate climate       |                            |                      |
|                                     |                            | change and climate variability    |                            |                      |
|                                     |                            | impact information in the         |                            |                      |
|                                     |                            | disaster risk reduction           |                            |                      |
|                                     |                            | programmes design network.        |                            |                      |
| Across Sectors:                     | 5.3.1 Building disaster    | 5.3.1.1 Develop guidelines and    | NDMO                       | Ministry of          |
| 5.3 Develop and                     | resilient community        | templates for inclusion of DRR    | All Relevant               | Agriculture and      |
| establish                           | elements including         | in sectoral policies and plans.   | Ministries                 | Forestry,            |
| policy and planning                 | population infrastructure, | 5.3.1.2 Include disaster risk     |                            | Ministry of Industry |
| frameworks to                       | utility services, life and | reduction in policies and         |                            | and Trade,           |
| incorporate all                     | livelihood support         | development plans of various      |                            | Ministry Public      |
| hazard risk                         | system, etc.               | relevant sectors.                 |                            | Works and            |
| reduction                           |                            | 5.3.1.3 Include disaster risk     |                            | Transport;           |
| perspectives into                   |                            | reduction perspectives at         | Ministry of                | Ministry of          |
| sectoral                            |                            | primary, secondary and tertiary   | Education                  | Defense;             |
| policies and                        |                            | levels of education.              |                            | Armed Forces         |
| development                         |                            | 5.3.1.4 Promote action            |                            | Division;            |
| plans, such as:                     |                            | research in relevant sectors.     | <b>Relevant Ministries</b> | Department of        |
| Agriculture,                        |                            | 5.3.1.5 Risk based design of      |                            | Post and             |
| livestock and                       |                            | projects and ancillary structure. | NDMO                       | Communication;       |
| fishery                             |                            | 53.1.6 Design and implement       |                            | Ministry             |
| <ul> <li>industry</li> </ul>        |                            | Social Safety Net Programmes      | Ministry of Labor          | of Education;        |
| <ul> <li>education</li> </ul>       |                            | To ensure food security of the    | and Social Welfare         | Academic             |
| (primary,                           |                            | most vulnerable.                  |                            | Institutions;        |
| secondary and                       |                            | 5.3.1.7 Identifying and           |                            | Ministry of Public   |
| university) rural and               |                            | converting existing public        | NDMO                       | Security             |
| urban housing,                      |                            | buildings into multi-purpose      |                            | ,                    |
| <ul> <li>construction of</li> </ul> |                            | disaster shelters.                |                            |                      |
| roads,                              |                            | 5.3.1.8 Promote food security     |                            |                      |
| bridges and                         |                            | as an important factor in         | Ministry of                |                      |
| culverts                            |                            | ensuring the resilience of        | Agriculture and            |                      |
| water                               |                            | communities to hazards.           | Forestry                   |                      |
| transportation                      |                            | 5.3.1.9 Establish a               |                            |                      |
| • Health                            |                            | dependable national food          | Ministry of                |                      |
| Water resources                     |                            | security system.                  | Agriculture and            |                      |
| <ul> <li>Power, energy</li> </ul>   |                            | 5.3.1.10 Develop and              |                            |                      |
|                                     |                            |                                   |                            |                      |

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|                       | and<br>mineral resources<br>• Environment and  |   | implement a School Safety<br>Programme including a<br>national school safety plan and  | Forestry<br>Ministry of<br>Education  |                                  |
|-----------------------|--|---|--|---|----------------------------------|
|                       | <ul> <li>Environment and<br/>forestry</li> <li>Science and<br/>Technology</li> <li>Tele-<br/>communication</li> <li>Water Supply and<br/>Sanitation</li> <li>Food Security</li> <li>Land Use</li> <li>Women, children,<br/>elderly and<br/>disabled people.</li> </ul> |   | national school safety plan and<br>school building-level<br>emergency response plans.<br>5.3.1.11 Harmonize and<br>coordinate all land use related<br>policies, legislation as well as<br>promote effective protection<br>and enhancement of land<br>quality with the aim of ensuring<br>sustainable utilization of land<br>so that it can provide optimal<br>production to foster<br>socioeconomic development<br>and maintenance of land<br>quality for long-term<br>productivity.<br>5.3.1.12 Develop plan and<br>implement accordingly for<br>women and children.<br>5.3.1.13 Prepare and upgrade<br>data on women, children,<br>elderly and disabled people<br>5.3.1.14 Provide special<br>arrangement for women, | Education<br>Ministry of Public<br>Security<br>Ministry of Labor<br>and Social Welfare<br>Ministry of Labor<br>and Social Welfare |                                  |
|                       |  |   | children, elderly and disabled people in shelters  | Ministry of Labor<br>and Social Welfare   |                                  |
| 6.0                   | 6.1 Strengthen and   | 6.1.1 Ensure accuracy in                  | 6.1.1.1 Technical and  | MDMO  | Armed Forces                     |
| Strengthening         | improve an all<br>Hazard Early   | the early warning information generation. | technological capacity building<br>of relevant Lao PDR ministries  | Water Resources<br>and Environment  | Division;<br>Department of       |
| Emergency<br>Response | Warning Systems  | mornation generation.                     | and other related organizations  | Administration  | Post and                         |
| Systems               | through  |   | to a) improve the accuracy of  |   | Communications                   |
|                       | • technical, technological and   |   | early warning information generated and b) increase the  |   | INGO Disaster<br>Risk Management |
|                       | physical capacity  |   | lead time for flood forecast.  |   | Working Group,                   |

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| strengthening early<br>warning systems<br>•establishment and<br>strengthening of<br>regional networks<br>for real time<br>data/information<br>sharing  |  | 6.1.1.2 Use ASEAN and other<br>available frameworks and<br>platforms to establish regional<br>networks for real time<br>data/information sharing.   |   | Lao Red Cross,<br>NGOs<br>Development<br>Partners                         |
|--|--|---|---|---|
| 6.2 Establish an<br>effective command<br>and control system<br>along with a<br>National Disaster<br>Management<br>Information Centre<br>with an internet<br>connection with all<br>the Provinces and<br>in high risk districts.<br>• to archive and<br>share disaster risk<br>reduction<br>information<br>• produce and<br>share policy briefs<br>•receive and<br>disseminate<br>early warning and<br>needs assessment<br>information. | 6.2.1 An effective 24/7<br>information hub including<br>early warning<br>dissemination system.<br>6.2.2 An effective<br>information management<br>system that is providing<br>on-time adequate and<br>necessary information<br>during emergency<br>situations. | 6.2.1.1 Establish and make<br>operational a National Disaster<br>Management Information<br>Centre within the emergency<br>operation centers (EOC).<br>6.2.1.2 Design information<br>products.<br>6.2.1.3 Produce and<br>disseminate regular<br>information products in time<br>intervals. | MDMO<br>Ministry of<br>Information and<br>Culture | Ministry of<br>Defense;<br>Relevant Ministries<br>Development<br>Partners |
| 6.3 Establish an<br>effective<br>Community Alert<br>System through<br>capacity<br>strengthening of<br>telecommunications   | <ul> <li>6.3.1 An effective communication network to timely disseminate all hazard warning messages to the communities.</li> <li>6.3.2 A disaster</li> </ul>   | <ul> <li>6.3.1.1 Develop and establish<br/>an all hazards community<br/>alerting system and impart<br/>training to enhance its<br/>operational capability.</li> <li>6.3.1.2 Organize regular drills<br/>to improve the efficiency of the</li> </ul>                                       | MDMO<br>Ministry of Public<br>Security            | Relevant Ministries<br>Lao Red Cross                                      |

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| at the Dec. 's stat  | and a second sector and the former of the second se |   |                    | <del>ا</del> |
|----------------------|--|---|--------------------|--------------|
| at the Provincial    | management information   | system  |                    |              |
| and District levels. | network is operational   |   |                    |              |
|                      | and demonstrated down  |   |                    |              |
|                      | to the household level.  |   |                    |              |
| 6.4 Establish and    |  | 6.4.1.1 Identify potential                                | MDMO               | Ministry of  |
| improve              | and rescue mechanism   | rescue scenarios and                                      |                    | Defense,     |
| Search and Rescue    | to provide timely  | determine appropriate search                              |                    |              |
| Mechanism by         | operations.  | and rescue equipment needs.                               |                    |              |
| •Preparing a         | 6.4.2 First responding   | 6.4.1.2 Strengthen MOH and                                | Ministry of Public |              |
| potential            | institutions are fully   | other first responding                                    | Health, Lao Red    |              |
| search and rescue    | equipped to efficiently  | institutions with required                                | Cross              |              |
| scenario             | handle the S&R   | training and equipment support                            |                    |              |
| Strengthening        | operations.  | 6.4.1.3 Establish and                                     |                    |              |
| S&R capability of    |  | strengthen the community                                  | Lao Red Cross      |              |
| first responding     |  | based institutional mechanism                             |                    |              |
| institutions by      | workforce to assist in   | for disaster volunteering, such                           |                    |              |
| providing training   |  | as Lao Red Cross.   |                    |              |
| and equipments       |  | 6.4.1.4 Develop and implement                             |                    |              |
| support              |  | a training programme to                                   | All Relevant       |              |
| Establish an all     |  | establish the all hazard                                  | Ministries         |              |
| hazard volunteer     |  | volunteer workforce at                                    | NDMO               |              |
| groups for S&R       |  | municipal and district levels.                            | Lao Red Cross      |              |
| operations.          |  | 6.4.1.5 Prepare SOPs for                                  |                    |              |
| operations.          |  | specific hazard based                                     | NDMO               |              |
|                      |  | disasters incorporating                                   | Ministry of        |              |
|                      |  | command. control and                                      | Defense            |              |
|                      |  | coordination mechanism for                                | Delense            |              |
|                      |  |   |                    |              |
|                      |  | emergency response.                                       |                    |              |
|                      |  | 6.4.1.6 Design and integrate disability guidelines within | NDMO               |              |
|                      |  | , ,   |                    |              |
|                      |  | search and rescue training                                |                    |              |
|                      |  | system.   | DMO                | Data and     |
| 6.5 Develop and      | 6.5.1 An all hazard  | 6.5.1.1 Review the existing                               | DMO                | Relevant     |
| establish            | response plan is   | emergency response plans at                               | All Relevant       | ministries,  |
| emergency            | established at all levels.   | all levels.   | Ministries         | Armed Forces |
| response plans       | 6.5.2 Emergency  | 6.5.1.2 Develop and establish                             |                    | NGOs         |
|                      | response operations  | emergency response plan for                               |                    | Development  |

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| during disaster are well                 |                                       |              | Partners,         |
|--|---------------------------------------|--------------|-------------------|
| coordinated.                             | 6.5.1.3 Develop and implement         |              | CBOs and the      |
|  | a standard relief management          |              | Private           |
|  | procedure.                            |              | sector            |
|  | 6.5.1.4 Strengthen the                |              |                   |
|  | Provinces and Districts to            |              |                   |
|  | prepare their respective              |              |                   |
|  | response plans                        |              |                   |
|  | 6.5.1.5 Administration,               |              |                   |
|  | coordination and monitoring of        |              |                   |
|  | emergency relief and                  |              |                   |
|  | rehabilitation programmes,            |              |                   |
|  | such as design, approval and          |              |                   |
|  | distribution of relief materials.     |              |                   |
|  | 6.5.1.6 Promote planning and          |              |                   |
|  | practicing of emergency               |              |                   |
|  | evacuation routes for persons         |              |                   |
|  | with disability                       |              |                   |
| 6.6 Develop and 6.6.1 An all hazard post |                                       | NDMO         | Relevant Sectoral |
| establish disaster recovery and          | e e e e e e e e e e e e e e e e e e e | NDINO        | Ministries and    |
| post disaster reconstruction plan is     | 3                                     |              | departments/      |
| recovery and established at all levels.  | strengthen where necessary.           |              | Armed             |
| reconstruction 6.6.2 Post disaster       | 6.6.1.2 Establish a standard          | NDMO         | Forces Division   |
|  |                                       | NDIVIO       | FOICES DIVISION   |
| mechanism recovery and                   | sector specific damage and            |              |                   |
| reconstruction                           | loss assessment methodology.          | All Delevent |                   |
| operations following                     |                                       | All Relevant |                   |
| disaster are well                        |                                       | Ministries   |                   |
| coordinated.                             | post-disaster recovery and            | NDMO         |                   |
|  | rehabilitation processes and          |              |                   |
|  | use opportunities during the          |              |                   |
|  | recovery phase to develop             |              |                   |
|  | capacities that reduce disaster       |              |                   |
|  | risk in the long term, including      |              |                   |
|  | through the sharing of                |              |                   |
|  | expertise, knowledge and              |              |                   |
|  | lessons learned.                      |              |                   |
|  | 6.6.1.4 Enhance recovery              | All Relevant |                   |

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|   |  |   | schemes including<br>psychosocial training<br>programmes in order to<br>mitigate the psychological<br>damage of vulnerable<br>populations, particularly<br>children, the elderly and the<br>disabled, in the aftermath of<br>disasters   | Ministries   |  |
|---|--|---|--|--|--|
| 7.0 Developing<br>and<br>Strengthening<br>regional and<br>global Networks | 7.1 Establish public<br>and private<br>partnerships for<br>disaster risk<br>reduction.   | 7.1.1 To create a<br>working interface with<br>and between the<br>technical and scientific<br>community.  | 7.1.1.1 Identify national<br>disaster management players.<br>7.1.1.2 Establish formal and<br>informal partnerships through<br>signing of Memorandum of<br>Understandings and Letter of<br>Agreements.  | NDMO   | Relevant<br>Ministries/<br>Departments,<br>INGO Disaster<br>Risk Management<br>Working Group,<br>NGOs,<br>Academic<br>Institutions |
|   | 7.2 Support<br>regional and global<br>initiatives and<br>ensure<br>representation that<br>is consistent with<br>the government<br>integrated all<br>sector risk<br>reduction approach<br>at all levels | <ul> <li>7.2.1 To establish formal<br/>and informal<br/>partnerships with<br/>regional organizations<br/>for enhanced information<br/>exchange and mutual<br/>support.</li> <li>7.2.2 Facilitate<br/>information sharing and<br/>more effective cross<br/>border mutual support<br/>programs including<br/>early warning<br/>mechanisms.</li> <li>7.2.3 Timely cross<br/>border early warning.</li> <li>7.2.4 Appropriate<br/>representation at<br/>regional and</li> </ul> | <ul> <li>7.2.1.1 Identify key regional collaborating organizations and develop systems for coordination, and knowledge sharing.</li> <li>7.2.1.2 Negotiate on cross border information to enhance early warning.</li> <li>7.2.1.3 Use, ASEAN and other platforms to establish regional networks for real time data/information sharing as well as sharing of new knowledge and technology.</li> <li>7.2.1.3 Prepare a guideline for international assistance for any major disaster emergencies.</li> <li>7.2.1.4 Actively involved in disaster risk management</li> </ul> | NDMO<br>Ministry of Foreign<br>Affairs<br>NDMO<br>NDMO<br>Ministry of Foreign<br>Affairs | Relevant Ministries<br>Regional and<br>International<br>Organizations<br>Development<br>Partners                                   |

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| international forums.   | activities of ISDR, ADRC,      |
|-------------------------|--------------------------------|
| 7.2.5 Formalized public | ADPC, NGOs and donor           |
| private partnerships    | nations.                       |
|                         | 7.2.1.5 Liaise and cooperate   |
|                         | with international groups i.e. |
|                         | International Search and       |
|                         | Rescue Advisory Group          |
|                         | (INSARAG)                      |
|                         | 7.2.1.6 Liaise and cooperate   |
|                         | with ASEAN Disaster            |
|                         | Management Coalition and       |
|                         | AADMER.                        |

# 5.2 Summary of Disaster Risk Reduction Initiatives 2012 -2015

The disaster risk reduction initiatives, summarized in Table VI, provides an overview of all the priority activities, timeframes and an initial indicative budget for their implementation during the period 2012 -- 2015. The National Disaster Management Plan initiatives shall need to be incorporated into specific partnerships with stakeholders engaged in disaster risk reduction in the Lao PDR and is intended to promote synergies to create sustainable achievements in vulnerability risk reduction while creating greater disaster resilience.

# Table VI: Summary of Disaster Risk Reduction Initiatives 2012 -2015

|     | Disaster Risk Reduction Components  |        | Time   |      | Budget |          |
|-----|---|--------|--------|------|--------|----------|
|     |   | 2012   | 2013   | 2014 | 2015   | \$ (000) |
| 1   | Professionalizing the Disaster Management System  |        |        |      |        |          |
| 1.1 | Formulation of a national disaster risk management policy and legislation   | X      |        |      |        | 15       |
| 1.2 | Enhance professional skills and knowledge of NDMO<br>and selected other key implementing agency staff on<br>disaster risk reduction, preparedness, warning and<br>forecasting system, and post-disaster recovery<br>activities. | X      | X      | X    | X      | 100      |
| 1.3 | Design and implement training/ awareness raising programs targeting national and district level policy officials  | X      | X      | X    | X      | 160      |
| 2   | Mainstreaming Disaster Ris  | sk Red | uction | 1    |        |          |
| 2.1 | Risk reduction principles and practices are mainstreamed within all development programmes and policies.  |        | X      | X    | X      | 150      |
| 2.2 | Mainstreaming disaster risk reduction issues in all the sectoral policies and plans.  |        |        | X    | X      | 100      |
| 2.3 | Disaster risk reduction considerations incorporated in NGO programmes and plans.  | X      | X      | X    | X      | 80       |
| 3   | Strengthening Institutional   | Mecha  | anisms | 5    |        |          |
| 3.1 | Capacity building of National Disaster Management<br>Committees (DMCs) at all levels.   | X      | X      | X    | X      | 120      |
| 3.2 | Create a national training capacity to sustain and progressively expand disaster risk management training efforts.  | X      |        |      |        | 75       |
| 3.2 | Develop a national monitoring and evaluation system to<br>enable the effectiveness of the training strategy to be<br>measured.  |        | X      |      |        | 50       |

|     | Disaster Risk Reduction Components   |      | Time |      | Budget |          |
|-----|--|------|------|------|--------|----------|
|     |  | 2012 | 2013 | 2014 | 2015   | \$ (000) |
| 4   | Empowering At Risk Communities   |      |      |      |        |          |
| 4.1 | Develop and establish a standard assessment procedure to identify community/household level risks.   | X    | X    |      |        | 50       |
| 4.2 | Establish a disaster risk reduction action planning framework.   |      | X    |      |        | 200      |
| 4.3 | Strengthen community and household level (internal) capacity to withstand the disaster events.   | X    | X    | X    | x      | 400      |
| 4.4 | Reduce vulnerability of the at risk communities through (external) social safety nets.   | X    | X    | X    | X      | 150      |
| 5   | Expanding Risk Reduction Programming across<br>Hazards and sectors   |      | I    | 1    |        |          |
| 5.1 | Across Hazards:<br>Update hazard, risk and vulnerability maps.   |      |      | X    |        | 100      |
| 5.2 | Establish an integrated approach to disaster<br>management including climate change and climate<br>variability impacts.  | X    | X    |      |        | 200      |
| 5.3 | Across Sectors:<br>Develop and establish policy and planning frameworks<br>to incorporate all hazard risk reduction perspectives into<br>sectoral policies and development plans.                      |      | X    | X    |        | 100      |
| 6   | Strengthening Emergency Response Systems   |      |      |      |        |          |
| 6.1 | Strengthen and improve an all hazard early warning system.   | X    | X    |      |        | 120      |
| 6.2 | Establish and operate a National Disaster Management<br>Information Centre within an Emergency Operations<br>Center) with an internet connection with all the<br>Provinces and in high risk districts. |      | X    | X    | X      | 150      |
| 6.3 | Establish an effective Community Alert System through<br>capacity strengthening of telecommunications system at<br>the Provincial and District levels.   |      | X    | X    | X      | 150      |
| 6.4 | Establish and improve Search and Rescue mechanisms.  | X    |      |      |        | 100      |
| 6.5 | Develop and establish emergency response plans.  | X    | Х    |      |        | 100      |
| 6.6 | Develop and establish post disaster recovery and reconstruction mechanisms.  | X    | X    |      |        | 100      |
| 7   | Developing and Strengthening Regional and<br>Global Networks   |      |      |      |        |          |
| 7.1 | Establish public and private partnerships for disaster risk reduction.   | X    | X    | X    | X      | 100      |
| 7.2 | Support regional and global initiatives and ensure<br>representation is consistent with disaster risk reduction<br>sectoral approaches at the national, provincial, district<br>and village levels.    |      | X    | X    | X      | 300      |

# 5.3 Disaster Risk Reduction Priorities

Among the high priority disaster risk reduction interventions identified, an initial set of disaster risk reduction interventions has been further categorized as being critical or urgent. These interventions focus on the activities incorporated into a disaster risk reduction framework that seeks to ensure that disaster risk reduction forms an integral part of the government's development agenda. Achievement of disaster risk reduction goals over the long-term depends on creating a solid foundation from which all the other disaster risk reduction initiatives identified can be more effectively launched.

#### The critical or urgent priorities for action are more specifically identified as follows:

# • Ensuring disaster risk reduction is a national and a local priority.

Formulation of national disaster risk management policy and legislation is a critical priority for the Government of the Lao PDR. Launch long-term disaster risk reduction efforts envisioned in the National Disaster Management Plan. The government will take the lead and demonstrate its commitment to disaster risk reduction by formulating new, and revising out-dated, policies and legislation in support of disaster risk management.

The current lack of more formal and legal basis for various ministries to undertake disaster risk management initiatives together with the absence of regular operational budgets for national and local disaster management bodies (i.e., community, district, provincial and national levels) are the most serious constraints in the pursuit of disaster risk reduction in the country.

Given the need to learn from the experiences of other countries, technical assistance and expertise of key donor institutions, international and regional disaster management agencies and NGOs will be a key factor in pushing this agenda forward.

# Creation and strengthening of national disaster risk reduction coordination mechanisms.

The coordination of a wide range of disaster risk reduction initiatives involving collaboration and partnerships between an equally wide range of national and local government institutions, non-government organizations and potential technical and financial support institutions requires a strong coordinating mechanism. This coordinating mechanism should build on existing structures within the National Disaster Management Committee and its implementing body the National Disaster Management Office given their existing legal mandate to coordinate disaster management efforts in the country.

One of the primary tasks of the National Disaster Management Office will be to revive and strengthen its coordination network to effectively link government institutions, local governments, non-government organizations, the private sector, civil society and other relevant stakeholders including non-government organizations and key donor institutions. This includes establishing linkages to adequate technical and financial support to the concerned lead institutions.

# Integration of disaster risk reduction into the national development planning

For a substantial reduction of disaster losses in terms of human lives and in the social, economic and environmental assets of communities and of the country as a whole, disaster risks management must be incorporated into national development policies and plans. For as long as disaster risk reduction is not identified as one of the priority concerns in the national development plan, it is unlikely that disaster risk reduction programs will be consistently undertaken by government institutions and supported by the country's major external development partners.

# • Strengthen Disaster Preparedness for Effective Response at All Levels

Strengthen national and sub-national capacities for preparedness and response. Experience shows that local governments and communities are the main actors that immediately respond to disaster events. The first response to emergencies is crucial for saving human lives as external assistance may not immediately come especially if the disaster affects a wide geographical area. In many small-scale disaster events little or no external assistance may arrive. The impact of disasters on communities in the hazard-prone rural areas can be reduced if national and local governments are assisted in preparing well in advance for the occurrence of hazard events. The initial activities to be undertaken under this component of the action plan include conducting a comprehensive review of disaster response capacities at provincial and national levels, strengthening response capacities through the formulation of hazard-specific preparedness and contingency plans, and the training of disaster response teams who are provided with the necessary skills and equipment to carry out effective disaster response operations.

# • Create policies and legal frameworks that will support national disaster risk reduction initiatives.

It is essential to have strong coordination mechanisms at the national, provincial and district levels to integrate activities that support disaster risk reduction into sectoral programs and the planning process to ensure that natural hazard risks are being taken into consideration. This initiative shall, over time, offer protection from natural disaster episodes from communities residing in high-risk and hazard prone areas.

# • Plan for women, children, elderly and disabled.

The gender dimension of vulnerability suggests that risks and impacts of environmental crises and natural disasters are experienced by women, children, the handicapped and men differently and are mediated by their differential access to and control over resources and familial relationships. Where life-saving skills are concerned, women are at a disadvantage due to social confinement and are more vulnerable to violence, personal injury, drowning, and health hazards. Female-headed households have less access to social, political and financial resources and are more likely to experience a more difficult recovery process than similarly poor male-headed households. Children and the elderly suffer more and mortality rates are found to be much higher among the very young and the very old. People with disabilities are one of the most neglected and alienated sections of the society and as such remain more vulnerable to natural hazards. In the absence of any special provisions, they face particular difficulties during evacuation and in post evacuation shelters. Every concerned Ministry of the Government of Lao PDR should prepare their own Disaster Management Plans with a view to safeguarding women/children/elderly/disabled from specific disaster episodes.

In general, the effectiveness of disaster risk reduction activities in the Lao PDR should be measured through the following indicators:

- 1. A legal framework for disaster risk reduction exists.
- 2. A national multi-sectoral platform for disaster risk reduction is operational.
- 3. Level of funding allocated to disaster risk reduction and disaster management
- 4. Number of adaptation and risk reduction measures implemented.
- 5. Reduction in the number of deaths, injuries and impact from disasters.

Other appropriate and more specific indicators will be formulated in the monitoring and evaluation plan that will be developed as part of the implementation of the National Disaster Management Plan.

# 6. IMPLEMENTATION

#### 6.1 Re-engineering Mandates for Disaster Risk Management

The strategic goals in the National Disaster Management Plan 2012-2015 are in alignment with the National Strategic Plan for Disaster Risk Management issued by the National Disaster Management Committee in 2003. Activities developed support the aim to safeguard sustainable development and reduce the effects from natural and human induced crises while developing the paradigm shift from a response modality to a preparedness and mitigation capacity at the national, provincial, district and village level.

The Government of the Lao PDR has first hand recognition of the impact of natural disaster episodes on its development strategies following recent floods and tropical storms. Typhoon Ketsana affected thousands of people in five provinces in 2009, displacing thousands of people and suffering economic losses assessed at US \$ 58 million. Many Asian/Pacific nations have initiated development planning activities that show substantial economic and social gains can be made by adopting disaster risk reduction strategies shown to be more affordable than repairing damaged infrastructure. The World Bank estimates countries could save US\$ 7 on recovery costs for every US\$1 spent on disaster risk reduction. Achieving this requires a comprehensive approach that emphasizes action taken prior to disaster rather than on post-impact recovery. The aim of disaster risk reduction is not to restore things the way they were before a disaster but to increase vulnerable communities' capacities and strengthen their coping strategies to deal more effectively with adverse events.

Further aims of the Government of the Lao PDR include the move from a public sector focused disaster capacity to a people centered approach that seeks to build preparedness, mitigation, early warning, response, reconstruction and rehabilitation abilities at the village, district and provincial levels. Lastly, the importance of protecting the natural resources of the nation – including forests, land and water is a vital responsibility.

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For the National Disaster Management Office, with a critical role in the initiation of the National Disaster Management Plan, it faces inadequate capacity, authority and resources to fulfill its current mandate. Positioned within the Ministry of Labor and Social Welfare as an Office within a Division, the National Disaster Management Office presently lacks the authority to coordinate effectively with other national stakeholders and provincial/district stakeholders. Thus, a critical implemental task shall be to address the issue of the National Disaster Management Office mandate to (a) re-engineer its organizational structure within the Ministry of Labor and Social Welfare as a Department, or (b) re-position within the national Government at a level that demonstrates the importance of disaster risk reduction and (c) allocate an annual budget to support priority activities at the national, provincial, district and village levels.

Of equal importance to the success of the activities in the National Disaster Management Plan is the concurrence of the National Disaster Management Committee and acceptance of the specific roles and responsibilities for its members. The activities to be undertaken during the multi-year period must also have support for its fiscal and technical requirements.

Conversely, the Lao Red Cross and Non-Government Organizations must continue to work at the sub-national level to bring effective community-based disaster risk management to areas of high risk to natural and human induced disaster episodes. Lastly, continued technical and fiscal support of the United Nations and donor institutions is critical for the Lao PDR to meet its MDG and Hyogo Framework for Action milestones by 2015.

# 6.2 Implementation Mechanisms

The planning process initiated under the National Disaster Management Plan is envisioned to become the start of a continuous and sustained process of disaster risk management planning and action among the key disaster management stakeholders in the Lao PDR. Government agencies, non-government organizations, the United Nations and other disaster risk reduction stakeholders shall incorporate activities consistent with the National Disaster Management Plan to address a plethora of interventions linked to coordination mechanisms under the responsibility of the National Disaster Management Office.

The National Disaster Management Plan shall build on and enhance the role of the National Disaster Management Office to create inter-ministerial collaboration at all levels while also seeking technical and financial support for mutually supportive initiatives in disaster management and risk reduction.

# 6.3 Funding

Funding for the implementation of the National Disaster Management Plan will be provided from sources including the national and provincial budgetary allocations in addition to external and local budgets. All the relevant ministries and functional agencies are expected to implement their responsibilities under the National Disaster Management Plan within their specific budgets. The need for technical and fiscal resources from external sources, particularly international non-government organizations and international donor agencies is an imperative to allow for capacity and institutional development at the national, provincial, district and village levels while

striving to create a national awareness of disaster risks and the mitigation measures to lower the potential loss of lives and livelihoods to natural disasters..

The continued and strengthened linkages with international and regional disaster risk reduction institutions will increase access to technical innovations and tools to adapt and adopt to the Lao PDR environment.

The opportunity for disaster risk management funding from donors and international funding institutions is highly likely to support the Lao PDR National Disaster Management Plan and action initiatives during the 2012 - 2015 period. Specific initiatives already underway with external assistance include:

Laos Australia NGO Cooperation Agreement (LANGOC A), is a consortium between Australian NGOs and the Lao PDR government, funded by Australian Aid for strengthening community level preparedness and response to natural disasters. LANGOC A works closely with the NDMO.

UNDP and the NDMO have the Institutional Strengthening and Capacity Development on Disaster Risk Management in Lao PDR project to support initiatives at the community level and national initiatives including the development of a National Disaster Management Plan and ancillary legislation.

LNMC, ADPC and NDMO are preparing/prepared Flood Preparedness Plans for Khammouane and Savannakhet province with financial support from the GTZ and ECHO.

Emergency Relief for the 2008 Floods has been provided by most major UN Agencies (FAO, WHO, UNICEF, OCHA) and NGOs and bilateral donors (ECHO, US AID, Japan, Singapore, Sweden, Canada and Germany.

The Mekong River Commission (MRC) is currently implementing a Flood Mitigation and Management Program (FMMP) with the support of donors such as Japan and Denmark.

The Asian Development Bank is preparing a TA for flood management project.

A Priority Investment Plan was developed for mainstreaming DRR into the Agriculture sector by the NDMO and Ministry of Agriculture with technical support from ADPC and GTZ.

JICA is supporting a pilot Riverbank Protection in the Vientiane Municipality.

The World Bank is working with NDMO, WREA and MPI to support the operationalization of the Strategic Plan for DRM. This includes funding a \$1 million project assisting the Government to design an implementation plan for its DRM strategy and strengthen the hydromet, early warning and river basin management. It is also helping to strengthen the Government's capacity in carrying out damage and loss national assessment (DALNA) to measure impact of natural disasters.

While not an exhaustive list of potential donors currently operational in the Lao PDR, the NDMC through the NDMO should locate donors seeking to create greater resilience to the natural disasters likely to affect investments in development sectors.

# 6.4 Monitoring and Evaluation

The National Disaster Management Plan is a dynamic document and will be reviewed and evaluated annually to ensure consistency with national initiatives and Government priorities. Key performance indicators will be monitored and reported annually to assess the progress of the implementation of the Framework. The key indicators will:

- Measure the expected outcomes of the Plan.
- Set benchmarks.
- Measure the effectiveness of policies, strategies and programs and inform policy development.
- Identify agency accountability and responsibility for each performance indicator.
- Identify opportunities for improvement that lead to enhancement of the Disaster Management System

The National Disaster Management Office will be responsible for monitoring the progress of the implementation of the National Disaster Management Plan.

#### ANNEX A Disaster Risk Reduction Roles and Responsibilities in Pre-Disaster, Ongoing and Post-Disaster Cycle

| NDMC MEMBER         | <b>RESPONSIBILITES IN PRE-</b> | <b>RESPONSIBILITES IN</b>    | <b>RESPONSIBILITES IN POST-</b> | REFERENCE TOACTION              |
|---------------------|--------------------------------|------------------------------|---------------------------------|---------------------------------|
|                     | DISASTER PERIOD                | DISASTER PERIOD              | DISASTER PERIOD                 | PLAN ACTIVITIES                 |
| Ministry of Defense | The representative of the      | Responsible for the National | Coordinating mitigation         | Supports tasks 2.2, 3.3, 4.2,   |
| -                   | Ministry of Defense shall      | Search and Rescue Team       | activities in post disaster     | 5.3, 6.1, 6.2, 6.4, 6.5, 6.6 in |
|                     | serve as the Chairman of the   | (NASRET); coordinating joint | periods;                        | the National Disaster           |
|                     | NDMC; shall appoint a          | emergency operations in      | Assist civilian authorities in  | Management Plan.                |
|                     | disaster management            | disaster events;             | the reconstruction and          |                                 |
|                     | contact person from the        | Deploy Army resources for    | rehabilitation of               |                                 |
|                     | Ministry and establish focal   | disaster response upon       | infrastructure as needed.       |                                 |
|                     | points at the provincial,      | receipt of instructions from |                                 |                                 |
|                     | district and other units.      | the NDMA;                    |                                 |                                 |
|                     | responsible for disaster       | Assist communities in        |                                 |                                 |
|                     | management specialized         | evacuation and rescue the    |                                 |                                 |
|                     | training and organizing        | trapped groups and           |                                 |                                 |
|                     | simulation exercises using     | individuals;                 |                                 |                                 |
|                     | policemen and civilians;       | Undertake arial and field    |                                 |                                 |
|                     | Assess vulnerability of the    | assessment in collaboration  |                                 |                                 |
|                     | assets, infrastructure and     | with other stakeholders to   |                                 |                                 |
|                     | personnel of the military      | identify needs of survivors; |                                 |                                 |
|                     | forces to natural disasters in | Deploy Army resources for    |                                 |                                 |
|                     | hazard-prone areas and         | provision of relief to the   |                                 |                                 |
|                     | integrate vulnerability        | survivors in collaboration   |                                 |                                 |
|                     | reduction measures;            | with other stakeholders;     |                                 |                                 |
|                     | Develop a disaster             | Assist communities in        |                                 |                                 |
|                     | preparedness and response      | evacuation and rescue the    |                                 |                                 |
|                     | plan for the involvement of    | trapped groups and           |                                 |                                 |
|                     | Lao PDR military in response   | individuals;                 |                                 |                                 |
|                     | and relief operations in       | Provide essential medical    |                                 |                                 |
|                     | different parts of the         | assistance as required and   |                                 |                                 |
|                     | country;                       | transport injured to the     |                                 |                                 |
|                     | Assess resources for relief,   | hospitals;                   |                                 |                                 |
|                     | rescue and evacuation work     | Undertake arial and field    |                                 |                                 |

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| by the military;<br>Deploy Army resources for<br>disaster response upon<br>receipt of instructions from<br>the NDMC.assessment in collaboration<br>with other stakeholders<br>to disaster response upon<br>identify needs of survivors;<br>Deploy Army resources for<br>provision of relief to the<br>survivors in collaboration<br>with other stakeholdersActing as the center for<br>disaster management<br>of labor and Social<br>Welfare serves as the Vice-<br>Chair and assigned<br>cordination and<br>Disaster Management of the National<br>Disaster Management of the National<br>disaster management<br>tor organizing for labor and coordinating preparedness,<br>prevention, mitigation and<br>coordinating preparedness,<br>recovery activities in pre-<br>disaster management<br>training for Lao PDR<br>employees and the public<br>nationide.Review of damage to flood<br>for and approve flood<br>of plans for necostruction works.Measures for improvement<br>of flood forecasting and<br>of flood forecasting and<br>prevention (WREA) –Supports all activities in the<br>National Disaster<br>MalkiteWater Resources and<br>Environment<br>Administration (WREA) –<br>Office of the Prime<br>MinisterPrepare flood protection<br>plans for the country,<br>Review and approve flood<br>for agencing principles of<br>rescue, relief and response of<br>of plans for restoration and<br>reconstruction works.Measures for improvement<br>of flood forecasting and<br>warning system;<br>Prepare a research program<br>Prepare a research program<br>Prepare a presearch program<br>Prepare a presearch program<br>Prepare a presearch program<br>Prepare a presearch program<br>MinisterSupports tasks 1.3, 2.1, 5.2,<br>6.1 in the National Disaster<br>Make recommendations<br>reconstruction works.Supports tasks 1.3, 2.1, 5.2,<br>6.1 in the National Disaster<br>Management Plan.   |                       |                              |                                |                                | I                              |
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| disaster response upon<br>receipt of instructions from<br>the NDMC.identify needs of survivors;<br>Deploy Army resources for<br>yorvision of relief to the<br>survivors in collaboration<br>with other stakeholdersActing as the center for<br>disaster management<br>information, assessments,<br>coordination and<br>responsibility for the<br>Disaster Management Office<br>for organizing and<br>Disaster Management Office<br>for organizing for Lao PDR<br>employees and the publicActing as the center for<br>disaster management<br>ordinationSupports all activities in the<br>NAMO, NDMO and the<br>the NDMC, NDMO and the<br>Deploy resources to the relief<br>and response efforts during<br>ordination and<br>recovery activities in pre-<br>disaster management<br>training for Lao PDR<br>employees and the publicReview of damage to flow<br>prevention, mitigation and<br>recovery activities in pre-<br>rescue, relief and response of<br>disaster management<br>training for Lao PDR<br>employees and the publicMeasures for improvement<br>of flood protection<br>prevention works and review<br>of plans for the country;<br>Review and approve flood<br>control / protection schemes<br>preventia and concerned<br>federal agencies;<br>Make recommendations<br>regarding principles ofMeasures for improvement<br>of flood control and<br>protection works.Supports tasks 1.3, 2.1, 5.2,<br>Standardize designs and<br>specifications for floodWater Resources and<br>MinisterPrepare flood protection<br>plans for the country;<br>Make recommendations<br>regarding principles ofReview of damage to flow<br>protection works and review<br>of flood control and<br>protection and<br>specifications for flood<br>protection and<br>specifications for flood<br>protection works;Supports tasks 1.3, 2.1, 5.2,<br>flood control and<br>protection works;  |                       |                              | assessment in collaboration    |                                |                                |
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| Survivors in collaboration<br>with other stakeholdersActing as the center for<br>disaster<br>management Plan linked to<br>the NDMC, NDMO for better<br>ocordination and<br>collection and production of<br>responsibility for the<br>management of the National<br>Disaster Management Office<br>for organizing and<br>coordinating preparedness,<br>prevention, mitigation and<br>rescuer vertion, sates rescuer, set the vice<br>disaster s.Acting as the center for<br>disaster<br>management Plan linked to<br>to collection and production of<br>organizing of relief supplies,<br>shelter other resources<br>for organizing for Lao PDR<br>employees and the public<br>hans for the country;Review of damage to flood<br>protection schemes<br>protection schemes<br>protection schemes<br>preaded by provincial<br>governments and concerned<br>federal agencies;<br>Make recommendations<br>regarding principles ofReview of damage to flood<br>protection works.Measures for improvement<br>of flood forecasting and<br>coordination of<br>organizing of relief supplies.Supports tasks 1.3, 2.1, 5.2,<br>6.1 in the National Disaster<br>Management Plan.Water Resources and<br>Ministerprepare flood protection<br>protection schemes<br>protection schemes<br>preaded by provincial<br>governments and concerned<br>federal agencies;<br>Make recommendations<br>regarding principles ofReview of damage to flood<br>protection works.Measures for improvement<br>of flood forecasting and<br>management Plan.Supports tasks 1.3, 2.1, 5.2,<br>6.1 in the National Disaster<br>Management Plan.  |                       | receipt of instructions from | Deploy Army resources for      |                                |                                |
| Ministry of Labor<br>Social WelfareThe representative of the<br>Ministry of Labor and Social<br>WelfareDeploy additional staff to<br>NDMO for better<br>coordination and<br>communication.Acting as the center for<br>disaster management<br>information, assessments,<br>collection and production of<br>responsibility for the<br>management of the National<br>Disaster Management Office<br>for organizing and<br>coordinating preparedness,<br>prevention, mitigation and<br>recovery activities in pre-<br>disaster management<br>training for Lao PDR<br>employees and the public<br>nations for the country;<br>Review and approve flood<br>for administration (WREA) –<br>Office of the Prime<br>MinisterPrevention, mitigation<br>prare flood protection<br>plans for the country;<br>Review and approve flood<br>prepared by provincial<br>governments and concerned<br>plans for the country;<br>Review and approve flood<br>organizing or principles ofMeasures for improvement<br>of plans for restoration and<br>recorstruction works.Supports all activities in the<br>NDMO for better<br>coordinating preparedness,<br>shelter other resources<br>following a disaster episode.Supports all activities in the<br>Nanagement Plan.Water Resources and<br>Prepare flood<br>plans for the country;<br>Review and approve flood<br>prepared by provincial<br>governments and concerned<br>prepared by provincial<br>governments and concerned<br>federal agencies;<br>Make recommendations<br>regarding principles ofReview of damage to flood<br>protection works.Measures for improvement<br>of flood forecasting and<br>protection;<br>Standardize designs and<br>specifications for flood<br>protection works;Supports tasks 1.3, 2.1, 5.2,<br>6.1 in the National Disaster<br>Management Plan.   |                       | the NDMC.                    | provision of relief to the     |                                |                                |
| Ministry of Labor<br>Social WelfareAnd<br>Ministry of Labor and Social<br>Welfare serves as the Vice-<br>Chair and assigned<br>responsibility for the<br>management of the National<br>Disaster Management of the National<br>Disaster management<br>training for Lao PDR<br>employees and the public<br>nationwide.Deploy resources for<br>rescue, relief and response of<br>disaster victims.Acting as the center for<br>disaster management<br>of fold forecasting and<br>warning system;<br>Prepare a research program<br>for flood forecasting and<br>warning system;<br>Prepare a research program<br>for flood control and<br>protection, standardize designs and<br>specifications for flood<br>protection works;Supports tasks 1.3, 2.1, 5.2,<br>6.1 in the National Disaster<br>Management Plan.Water Resources and<br>Environment<br>MinisterPrepare flood protection<br>protection schemes<br>prepared by provincial<br>governments and concerned<br>federa   |                       |                              | survivors in collaboration     |                                |                                |
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| Welfare serves as the Vice-<br>Chaircoordinationand<br>coordination.information,<br>collection and production of<br>reports on an annual basis;<br>and coordinationManagement Plan linked to<br>the NDMC, NDMO and the<br>management of the National<br>disasters.<br>MobilizeManagement protection<br>the NDMC, NDMO and the<br>merovers at the NDMC, NDMO and the<br>reports on an annual basis;<br>and response efforts during<br>disasters.<br>NobilizeInformation,<br>collection and production of<br>reports on an annual basis;<br>and coordination<br>organizing of relief supplies,<br>shelter other resources<br>following a disaster episode.Management Plan linked to<br>the NDMC, NDMO and the<br>MLSW.Water Resources and<br>Environment<br>Administration (WREA) -<br>Office of the Prime<br>MinisterPrepare flood<br>protection schemes<br>prepared by provincial<br>governments and concerned<br>federal agencies;<br>Make recommendations<br>regarding principles ofReview of damage to flood<br>protection works.Measures for improvement<br>of flood forecasting and<br>warning system;<br>Prepare a research program<br>for flood control and<br>protection;<br>Standardize designs and<br>specifications for flood<br>protection works;Supports tasks 1.3, 2.1, 5.2,<br>6.1 in the National Disaster<br>Management Plan.   | Ministry of Labor and | The representative of the    | Deploy additional staff to     | Acting as the center for       | Supports all activities in the |
| Chairandassigned<br>responsibilitycommunication.<br>Deploy resources to the relief<br>and response efforts during<br>organizing of relief supplies,<br>shelter other resources<br>for organizing of relief supplies,<br>shelter other resources<br>following a disaster episode.the NDMC, NDMO and the<br>MLSW.WaterResources and<br>Environment<br>MinisterPrepare flood protection<br>plans for the country;<br>Review and approve flood<br>for protection state agencies;<br>Make recommendations<br>regarding principles ofReview of damage to flood<br>protection works.Measures for improvement<br>of flood control and<br>protection, standardize designs and<br>standardize designs and<br>protection works;Supports tasks 1.3, 2.1, 5.2,<br>6.1 in the National Disaster<br>Management Plan.  | Social Welfare        | Ministry of Labor and Social | NDMO for better                | disaster management            | National Disaster              |
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| Disaster Management Office<br>for organizing and<br>coordinating preparedness,<br>prevention, mitigation and<br>recovery activities in pre-<br>disaster periods. Undertake<br>disaster management<br>training for Lao PDR<br>employees and the public<br>nationwide.disasters.<br>Mobilize community<br>volunteers and local level<br>staff and resources for<br>rescue, relief and response of<br>disaster victims.organizing of relief supplies,<br>shelter other resources<br>following a disaster episode.Water Resources and<br>Environment<br>Administration (WREA) -<br>Office of the Prime<br>MinisterPrepare flood protection<br>plans for the country;<br>Review and approve flood<br>control / protection schemes<br>prepared by provincial<br>governments and concerned<br>federal agencies;<br>Make recommendations<br>regarding principles ofReview of damage to flood<br>protection works and review<br>of plans for restoration and<br>protection schemes<br>prepared by provincial<br>governmentand concerned<br>federal agencies;<br>Make recommendations<br>regarding principles ofReview of damage to flood<br>protection works.Measures for improvement<br>of flood forecasting and<br>warning system;<br>Prepare a research program<br>for flood control and<br>protection;<br>Standardize designs and<br>specifications for flood<br>protection works;Supports tasks 1.3, 2.1, 5.2,<br>0f flood control and<br>protection;<br>Standardize designs and<br>specifications for flood<br>protection works;Measures for improvement<br>of flood control and<br>protection works;Supports tasks 1.3, 2.1, 5.2,<br>0f flood control and<br>protection;<br>Standardize designs and<br>specifications for floodSupports tasks 1.3, 2.1, 5.2,<br>0f flood control and<br>protection;<br>Standardize designs and<br>specifications for floodMake recommendations<br>protection works;Measures for inpro  |                       | management of the National   | and response efforts during    | and coordination of            |                                |
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| coordinating preparedness,<br>prevention, mitigation and<br>recovery activities in pre-<br>disaster periods. Undertake<br>disaster management<br>training for Lao PDR<br>employees and the public<br>nationwide.volunteers and local level<br>staff and resources for<br>rescue, relief and response of<br>disaster victims.following a disaster episode.Water Resources and<br>Environment<br>Administration (WREA) -<br>Office of the Prime<br>MinisterPrepare flood protection<br>plans for the country;<br>Review and approve flood<br>control / protection schemes<br>prepared by provincial<br>governments and concerned<br>federal agencies;<br>Make recommendations<br>regarding principles ofReview of damage to flood<br>protection works and review<br>of plans for restoration and<br>protection works.Measures for improvement<br>of flood forecasting and<br>warning system;<br>Prepare a research program<br>for flood control and<br>protection;<br>Standardize designs and<br>specifications for flood<br>protection works;Supports tasks 1.3, 2.1, 5.2,<br>6.1 in the National Disaster<br>Management Plan.  |                       | =                            | Mobilize community             | shelter other resources        |                                |
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| recovery activities in pre-<br>disaster periods. Undertake<br>disaster management<br>training for Lao PDR<br>employees and the public<br>nationwide.rescue, relief and response of<br>disaster victims.Image: Second S   |                       |                              |                                | 5 1                            |                                |
| disaster periods. Undertake<br>disaster management<br>training for Lao PDR<br>employees and the public<br>nationwide.disaster victims.Image: Complex com |                       |                              | rescue, relief and response of |                                |                                |
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| Water<br>Environment<br>Administration (WREA) -<br>Office of the Prime<br>MinisterPrepare flood protection<br>plans for the country;<br>Review and approve flood<br>control / protection schemes<br>prepared by provincial<br>governments and concerned<br>federal agencies;<br>Make recommendations<br>regarding principles ofReview of damage to flood<br>protection works and review<br>of plans for restoration and<br>protection works.Measures for improvement<br>of flood forecasting and<br>warning system;<br>Prepare a research program<br>for flood control and<br>protection;<br>Standardize designs and<br>specifications for flood<br>protection works;Supports tasks 1.3, 2.1, 5.2,<br>6.1 in the National Disaster<br>Management Plan.   |                       |                              |                                |                                |                                |
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| Administration (WREA) -<br>Office of the Prime<br>MinisterReview and approve flood<br>control / protection schemes<br>prepared by provincial<br>governments and concerned<br>federal agencies;of plans for restoration and<br>reconstruction works.warning system;<br>Prepare a research program<br>for flood control and<br>protection;<br>Standardize designs and<br>specifications for flood<br>protection works;Management Plan.   |                       |                              | •                              |                                | •••                            |
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| regarding principles of protection works;  |                       | •                            |                                |                                |                                |
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| regulation of reservoirs for include the second secon   |                       | regulation of reservoirs for |                                | Evaluate and monitor           |                                |
| flood control; progress of the National  |                       | •                            |                                |                                |                                |

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|   |   |  | Flood Protection Plan<br>Implementation;<br>Monitor the provincial<br>government's<br>implementation of the<br>national Flood Protection<br>Plan. The federal<br>government provides the<br>resources for meeting the<br>capital cost of the project(s).     |   |
|---|---|--|--|---|
| Ministry of Public Security             | The representative of the<br>Ministry of Public Security<br>shall serve as a member of<br>the NDMC; shall appoint a<br>disaster management<br>contact person from the<br>Ministry and establish focal<br>points at the provincial,<br>district, institutions and<br>major hospitals as needed;<br>and organizing specialized<br>disaster response training for<br>medical teams prior to the<br>onset of disaster events. | Responsible for coordinating<br>the direct involvement of<br>medical teams in emergency<br>operations offering first aid<br>and health care in addition to<br>preparing death certificates<br>of disaster victims; shall<br>stockpile medications and<br>supplies for use in any<br>disaster episodes;<br>responsible for hygiene and<br>disease vector control; |  | Supports tasks 1.1, 2.2, 3.1,<br>4.1, 5.3, 6.3 in the National<br>Disaster Management Plan. |
| Ministry of Agriculture<br>and Forestry | The representative of the<br>Ministry shall serve as Vice-<br>Chair of the NDMC; shall<br>appoint a disaster<br>management contact person<br>from the Ministry;<br>Ensure a sectoral risk<br>assessment exercise and<br>prepare risk reduction action<br>plan involving all its   | Responsible for joint relief -of<br>agricultural seeds and animal<br>husbandry to disaster<br>affected victims.  | Support in institutionalizing<br>training on Disaster Risk<br>Reduction Approaches in<br>agriculture and forestry<br>sectors;<br>Instruct Ministry staff to<br>undertake awareness<br>initiatives among<br>communities on the<br>importance of disaster risk | Supports tasks 2.1, 2.2, 5.3 in<br>the National Disaster<br>Management Plan.                |

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| Ensure budgetary provision<br>to support implementation of<br>the sectoral risk reduction<br>action plan.<br>Develop programme for<br>research with regards to<br>hazard analysis and its affect<br>in agriculture.In the event of a national<br>calamity or devastating<br>disaster episode, shall seek<br>pointsDevelop and maintain<br>inventory of Embassy focal<br>pointsSupports tasks 2.2, 7.2 in the<br>National Disaster<br>Management Plan.Ministry of Foreign Affairs<br>shall serve as Vice-Chair of<br>the NDMC; shall apoint a<br>disaster management<br>contact person from the<br>a national calamity or<br>devastating disaster episode, shall seek<br>following permission from<br>the NDMC; shall apoint a<br>international<br>a saistance<br>shall seek international<br>a ssistance<br>following permission from<br>the NDMC;<br>that seek international<br>a ssistance following<br>permission from the La DPR<br>incase of an emergency.Develop and maintain<br>investmentSupports tasks 2.2, 7.2 in the<br>National Disaster<br>Disaster Provide to Support a support to the NDMC;<br>the NDMC; the NDMC;<br>the NDMC in<br>order to ensure collaborative<br>in case of an emergency.Develop and maintain<br>investmentSupports tasks 2.2, 7.2 in the<br>National Disaster Provide<br>to quickly organize requests<br>for disaster provide<br>to quickly organize requests<br>for a disaster provide<br>in case of an emergency.Develop and maintain<br>incasistance for<br>disaster;<br>Coordinate with foreign<br>coordinate with foreign<br>coordinate with foreign<br>coordinate with again and<br>relevant UN agencies to<br>receive technical and<br>incasistance for<br>disaster risk reduction and<br>preparedness.Supports tasks 2.1, 2.2, 3.2 in<br>the National Disaster<br>monitor, archive and<br>post tasks reduction<br>monitor, archive and<br>presaredness.Supports tasks 2.1, 2.2, 3.2 in<  |                             |                                |                                |                                 | 1                               |
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| resources are available to  |                             |                                |                                |                                 |                                 |
| implement disaster risk   |                             |                                |                                |                                 |                                 |

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| reduction plans and activities<br>at all administrative levels;<br>Community participation and<br>decentralization are ensured<br>through the delegation of<br>authority and resources to<br>local levels;<br>A national multisectoral<br>platform for disaster risk<br>reduction is functioning;<br>National and local risk<br>assessments based on hazard<br>data and vulnerability<br>information are available and<br>include risk assessments for<br>key sectors.Build<br>acute health care<br>system for post disaster<br>response through<br>district and the NDMC;<br>shall appoint a disaster<br>management contact press<br>from the Ministry of Healt hall serve<br>units;<br>Identify hospitals and health<br>facilities that are located in<br>hazard-prone areas, analyze<br>their internal and external<br>winerability during<br>emergencies, and increase<br>the hazard resilience of suchBuild acute health care<br>system for post disaster<br>response through<br>strengthening the existing<br>organise Medical Mobile<br>teachies and list of<br>personnel to be mobilized<br>when warning is received or<br>immum delay;Supports tasks 2.2, 6.4 in<br>the National Disaster<br>strengthening the existing<br>organise Medical Mobile<br>teachies and list of<br>personnel to be mobilized<br>when warning is received or<br>immum delay;Build acute health care<br>system for post disaster<br>response through<br>strengthening the existing<br>organise Medical Mobile<br>teachies and list of<br>personnel to be mobilized<br>when warning is received or<br>impact of disaster reported.Supports tasks 2.2, 6.4 in<br>the National Disaster   |                            | reduction plans and activities |                             |                              |                           |
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| as a member of the NDMC;<br>shall appoint a disaster<br>management contact person<br>from the Ministry and<br>establish focal points at the<br>provincial, district and other<br>units;coordination in disaster<br>situations;response<br>through<br>strengthening the existing<br>district development system;<br>Establish a system of high<br>readiness and list of<br>personnel to be mobilized<br>when warning is received or<br>impact of disaster reported.Management Plan.Identify hospitals and health<br>hazard-prone areas, analyze<br>their internal and external<br>vulnerability<br>the hazard resilience of suchEnsure communication links<br>scene of disaster.impact of disaster reported.Management Plan.  | ivinisely of Lubic realtin | •                              |                             |                              |                           |
| shall appoint a disaster<br>management contact person<br>from the Ministry and<br>establish focal points at the<br>units;situations;strengthening the existing<br>district development system;<br>Establish a system of high<br>readiness and list of<br>personnel to be mobilized<br>when warning is received or<br>impact of disaster reported.Identify hospitals and health<br>facilities that are located in<br>hazard-prone areas, analyze<br>their internal and external<br>vulnerability<br>during<br>emergencies, and increase<br>the hazard resilience of suchsituations;<br>Set-up medical camps and<br>organise Medical Mobile<br>Teams (MMTs) to be sent to<br>the scene of disaster with<br>minimum delay;strengthening the existing<br>district development system;<br>Establish a system of high<br>readiness and list of<br>personnel to be mobilized<br>when warning is received or<br>impact of disaster reported.   |                            |                                |                             |                              |                           |
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| from the Ministry and<br>establish focal points at the<br>provincial, district and other<br>units;<br>Identify hospitals and health<br>facilities that are located in<br>hazard-prone areas, analyze<br>their internal and external<br>vulnerability during<br>emergencies, and increase<br>the hazard resilience of such  |                            |                                | -                           |                              |                           |
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| provincial, district and other<br>units;<br>Identify hospitals and health<br>facilities that are located in<br>hazard-prone areas, analyze<br>their internal and external<br>vulnerability during<br>emergencies, and increase<br>the hazard resilience of such  |                            | -                              | •                           |                              |                           |
| units;minimum delay;when warning is received orIdentify hospitals and health<br>facilities that are located in<br>hazard-prone areas, analyze<br>their internal and external<br>vulnerabilityEnsure communication links<br>between hospitals and the<br>scene of disaster.when warning is received or<br>impact of disaster reported.their internal and external<br>vulnerabilitycene of disaster.Heat<br>during<br>emergencies, and increase<br>the hazard resilience of suchHeat<br>hazard prone areas, analyze<br>the hazard resilience of suchHeat<br>hazard prone areas, analyze<br>  |                            | -                              | . ,                         |                              |                           |
| Identify hospitals and health<br>facilities that are located in<br>hazard-prone areas, analyze<br>their internal and external<br>vulnerabilityEnsure communication links<br>between hospitals and the<br>scene of disaster.impact of disaster reported.their internal and external<br>vulnerabilityduring<br>emergencies, and increase<br>the hazard resilience of suchEnsure communication links<br>between hospitals and the<br>scene of disaster.impact of disaster reported.   |                            | •                              |                             | •                            |                           |
| facilities that are located in<br>hazard-prone areas, analyze<br>their internal and external<br>vulnerability during<br>emergencies, and increase<br>the hazard resilience of such   |                            | -                              | •                           | -                            |                           |
| hazard-prone areas, analyze<br>their internal and external<br>vulnerabilityscene of disaster.vulnerabilityduring<br>emergencies, and increase<br>the hazard resilience of such   |                            |                                |                             | impact of disaster reported. |                           |
| their internal and external<br>vulnerability during<br>emergencies, and increase<br>the hazard resilience of such  |                            |                                | •                           |                              |                           |
| vulnerability during<br>emergencies, and increase<br>the hazard resilience of such   |                            | -                              | scene of disaster.          |                              |                           |
| emergencies, and increase<br>the hazard resilience of such   |                            |                                |                             |                              |                           |
| the hazard resilience of such  |                            |                                |                             |                              |                           |
|  |                            | <b>u</b>                       |                             |                              |                           |
|  |                            |                                |                             |                              |                           |
|  |                            | hospitals;                     |                             |                              |                           |
| Prepare and implement  |                            |                                |                             |                              |                           |
| hospital disaster  |                            | hospital disaster              |                             |                              |                           |

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|                          |                                |                                |                             | 1                              |
|--------------------------|--------------------------------|--------------------------------|-----------------------------|--------------------------------|
|                          | preparedness plan for such     |                                |                             |                                |
|                          | facilities to be able to deal  |                                |                             |                                |
|                          | with emergency situations;     |                                |                             |                                |
|                          | Prepare plans and SOPs for     |                                |                             |                                |
|                          | tracking and evacuations of    |                                |                             |                                |
|                          | mass casualties as a result of |                                |                             |                                |
|                          | a major disaster;              |                                |                             |                                |
|                          | Develop health care            |                                |                             |                                |
|                          | personnel proficient in        |                                |                             |                                |
|                          | disaster response (including   |                                |                             |                                |
|                          | improved education of          |                                |                             |                                |
|                          | nurses, emergency medical      |                                |                             |                                |
|                          | technicians, and doctors to    |                                |                             |                                |
|                          | have improved knowledge        |                                |                             |                                |
|                          | and preparedness of disaster   |                                |                             |                                |
|                          | management;                    |                                |                             |                                |
|                          | Increase knowledge of          |                                |                             |                                |
|                          | psychiatrics on rehabilitative |                                |                             |                                |
|                          | dimensions of disasters        |                                |                             |                                |
|                          | along with the health care of  |                                |                             |                                |
|                          | internally displaced people    |                                |                             |                                |
|                          | and women and children         |                                |                             |                                |
|                          | issues;                        |                                |                             |                                |
| Ministry of Public Works | Planning and execution of      | Working alongside several      | Assist with the restoration | Supports tasks 2.2, 5.3 in the |
| and Transport            | disaster plans in              | other first responder          | and improvement where       | National Disaster              |
|                          | collaboration with other       | government agencies            | appropriate, of facilities, | Management Plan.               |
|                          | NDMC representatives;          | to effectively and efficiently | livelihoods and living      |                                |
|                          | Engage in public awareness     | deal with the effects of       | conditions of disaster      |                                |
|                          | activities which will          | disasters.                     | affected communities,       |                                |
|                          | strengthen the Lao PDR         |                                | including efforts to reduce |                                |
|                          | capacity to mitigate           |                                | disaster risk factors.      |                                |
|                          | against, prepare for and       |                                |                             |                                |
|                          | respond to hazard impacts.     |                                |                             |                                |
| Ministry of Education    | The representative of the      | Responsible for the            | Encourage local educational | Supports tasks 2.2, 3.1, 3.2,  |

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| 015 | DRAFT NATIONAL DISASTER MANAGEMENT PLAN |
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|-----|---|

|    | Ainistry of Education shall  | evacuation of students and     | authorities and teachers to  | 3.3, 4.3, 5.3 in the National |
|----|------------------------------|--------------------------------|------------------------------|-------------------------------|
|    | erve as a member of the      | general population to          | prepare school disaster      | Disaster Management Plan.     |
| N  | IDMC; shall appoint a        | emergency shelters in          | response plans and their     |                               |
|    | isaster management           | schools in the event of a      | implementation;              |                               |
|    | ontact person from the       | disaster;                      | Allocate funds for safer     |                               |
| M  | Ainistry and establish focal | Identify and inventory the     | construction and disaster    |                               |
| po | oints at the provincial,     | vulnerable educational         | preparedness activities at   |                               |
| di | istrict and educational      | institutions and               | school, college, and         |                               |
| in | nstitutional as needed;      | infrastructure of the Ministry | university levels in hazard- |                               |
| in | ntegrating disaster          | in hazard-prone areas;         | prone areas;                 |                               |
| m  | nanagement concepts into     | Implement actions to reduce    |                              |                               |
|    | ducation programs in         | vulnerability of the built     |                              |                               |
| sc | chools, organize disaster    | infrastructure in education    |                              |                               |
|    | nanagement training on       | sector in hazard-prone areas,  |                              |                               |
|    | ving with natural hazards    | e.g. retrofitting, renovation, |                              |                               |
|    | nd managing environmental    | rebuilding etc.                |                              |                               |
|    | ssues for teaching staff and |                                |                              |                               |
|    | tudents;                     |                                |                              |                               |
|    | Coordinate with NDMA and     |                                |                              |                               |
|    | other technical agencies;    |                                |                              |                               |
|    | e.g. FFC, PMD to receive     |                                |                              |                               |
|    | nformation about disaster    |                                |                              |                               |
|    | risks in the country;        |                                |                              |                               |
|    | dentify and inventory the    |                                |                              |                               |
|    | vulnerable educational       |                                |                              |                               |
|    | nstitutions and              |                                |                              |                               |
|    | nfrastructure of the         |                                |                              |                               |
| N  | Ministry in hazard-prone     |                                |                              |                               |
|    | areas;                       |                                |                              |                               |
|    | mplement actions to reduce   |                                |                              |                               |
|    | vulnerability of the built   |                                |                              |                               |
| ir | nfrastructure in education   |                                |                              |                               |
| S  | sector in hazard-prone       |                                |                              |                               |
|    | areas, e.g. retrofitting,    |                                |                              |                               |
| r  | renovation, rebuilding etc   |                                |                              |                               |

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| Noticitation of Freeman and | Designate and reconcide       | Ludantaka planning ta       | lasue detailed instructions to | Comparts task 2.2 in the       |
|-----------------------------|-------------------------------|-----------------------------|--------------------------------|--------------------------------|
| Ministry of Energy and      | Designate one responsible     | Undertake planning to       | Issue detailed instructions to | Supports task 2.2 in the       |
| Mining                      | person in the Ministry as the | ensure uninterrupted        | the employees about their      | National Disaster              |
|                             | Disaster Management Focal     | services during hazard      | duties and responsibilities at | Management Plan.               |
|                             | Point;                        | impact.                     | precautionary, disaster and    |                                |
|                             | Issue necessary detail        |                             | post-disaster stages of        |                                |
|                             | directives to the respective  |                             | natural disasters;             |                                |
|                             | staff on their duties and     |                             | Arrange regular                |                                |
|                             | responsibilities as a         |                             | workshop/on-the job training   |                                |
|                             | precautionary for disaster    |                             | for working employees in       |                                |
|                             | and post disaster situation;  |                             | disaster areas on              |                                |
|                             | Prepare a sectoral risk       |                             | disaster issues.               |                                |
|                             | reduction action plan of the  |                             |                                |                                |
|                             | Ministry;                     |                             |                                |                                |
|                             | Ensure a sectoral risk        |                             |                                |                                |
|                             | assessment of the Ministry    |                             |                                |                                |
|                             | for disaster management       |                             |                                |                                |
|                             | activities;                   |                             |                                |                                |
|                             | Ensure budgetary provision    |                             |                                |                                |
|                             | of the Ministry for its risk  |                             |                                |                                |
|                             | reduction and management      |                             |                                |                                |
|                             | activities;                   |                             |                                |                                |
|                             | Undertake and mange risk      |                             |                                |                                |
|                             | reduction programs to         |                             |                                |                                |
|                             | ensure the resilience of      |                             |                                |                                |
|                             | infrastructure to             |                             |                                |                                |
|                             | hazards, and to reduce the    |                             |                                |                                |
|                             | vulnerability of services and |                             |                                |                                |
|                             | systems.                      |                             |                                |                                |
| Ministry of Industry and    | The representative of the     | Ensure that disasters are   | Ensure disaster risk           | Supports tasks 2.2, 5.3 in the |
| Trade                       | Ministry of Industry and      | timely assessed by Ministry | management issues are          | National Disaster              |
| Huuc                        | Trade shall serve as a        | officials for damages and   | considered when                | Management Plan.               |
|                             | member of the NDMC; shall     | losses and for recovery     | constructing new factories or  |                                |
|                             | appoint a disaster            | strategies;                 | Industries;                    |                                |
|                             | management contact person     | Implement an emergency      | Develop business continuity    |                                |
|                             | from the Ministry; develop    | sectoral response system.   | policy and procedures at       |                                |
| Dage CO of 07               |                               |                             |                                |                                |

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| Ministry of Finance                 | safety standards for<br>industrial factories and other<br>processing activities;<br>managing safety standards<br>for the use of chemicals,<br>toxic substances in industry<br>and their impact on the<br>environment and the public;<br>promote specialized training<br>related to handling<br>dangerous materials and<br>industrial accidents;<br>Mainstream disaster<br>management principles and<br>practices in development<br>planning processes<br>of the Ministry;<br>Develop research programs<br>with regards to hazards<br>analysis and of the Ministry.<br>The representative of the<br>Ministry of Einance shall | Shall be responsible for the reserve and delivery of   | • •   | Supports task 2.2 in the<br>National Disaster            |
|-------------------------------------|--|--|---|--|
|                                     | Ministry of Finance shall<br>serve as a member of the<br>NDMC; shall appoint a<br>disaster management<br>contact person from the<br>Ministry.  | reserve and delivery of<br>government funding for<br>disaster activities upon the<br>approval of the NDMC. | • •   | National Disaster<br>Management Plan.                    |
| Ministry of Information and Culture | The representative of the Ministry of Information and  | Initiate timely early warning information, emergency   | Promote disaster management public  | Supports tasks 2.2, 4.3, 6.2<br>in the National Disaster |
|                                     | Culture shall serve as a member of the NDMC; shall   | operations, and mitigation<br>information broadcasts   | awareness and education<br>media broadcasting                                     | Management Plan.   |
|                                     | appoint a disaster<br>management contact person<br>from the Ministry and   | through multi-media<br>services.<br>Coordinate with the NDMA   | programs and publications<br>on environmental protection<br>of natural resources. |  |

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|                        |                                 |                              | l                            | · · · · · · · · · · · · · · · · · · · |
|------------------------|---------------------------------|------------------------------|------------------------------|---------------------------------------|
|                        | establish focal points at the   | to receive information about |                              |                                       |
|                        | provincial, district and        | the disaster risks and       |                              |                                       |
|                        | institutional levels as needed; | preparedness strategies,     |                              |                                       |
|                        | Develop a communication         | particularly about           |                              |                                       |
|                        | action plan to ensure the       | community preparedness.      |                              |                                       |
|                        | availability of                 |                              |                              |                                       |
|                        | communication services in       |                              |                              |                                       |
|                        | case of the occurrence of a     |                              |                              |                                       |
|                        | disaster;                       |                              |                              |                                       |
|                        | Train the staff of              |                              |                              |                                       |
|                        | communications ministry         |                              |                              |                                       |
|                        | and the private sector media    |                              |                              |                                       |
|                        | personnel from electronic,      |                              |                              |                                       |
|                        | and print media to raise        |                              |                              |                                       |
|                        | their awareness about           |                              |                              |                                       |
|                        | disaster risks and the role of  |                              |                              |                                       |
|                        | media in promoting              |                              |                              |                                       |
|                        | community preparedness.         |                              |                              |                                       |
| Postal and             | Increase sharing of             | Establish and maintain       | Broadcast the individual and | Supports tasks 2.2,, 5.3, 6.1         |
| Telecommunications     | knowledge on policy options,    | communications (telephone,   | household measures to save   | in the National Disaster              |
| Department – Office of | strategies and best practices   | fax, email) ;                | lives and livelihoods;       | Management Plan.                      |
| the Prime Minister     | for ICT connectivity. This      | Design and implement         | Create mass awareness        | -                                     |
| the Prime Minister     | includes expert group           | awareness and public         | through radio broadcasting;  |                                       |
|                        | meetings, technical             | education programmes in      | Arrange broadcasting of the  |                                       |
|                        | materials, training courses,    | cooperation with the         | necessary information        |                                       |
|                        | seminars and workshops with     | NDMO including individual,   | relating to proper execution |                                       |
|                        | an emphasis on ICT access       | family and community         | of building codes for        |                                       |
|                        | points and community e-         | prevention, preparedness     | earthquake risk mitigation;  |                                       |
|                        | centers, in relation to multi-  | and response actions,        | Arrange broadcasting of the  |                                       |
|                        | hazard risk reduction           | warning signals and their    | govt. instructions/standing  |                                       |
|                        |                                 | meaning;                     | orders on earthquake         |                                       |
|                        |                                 | Publicize short talks on     | disaster management;         |                                       |
|                        |                                 | government disaster risk     | Broadcast programmes for     |                                       |
|                        |                                 | management policy and        | the people of the affected   |                                       |
|                        |                                 | practice;                    | areas for their mental boost |                                       |
| Daga 71 of 07          |                                 |                              |                              |                                       |

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| Meteorology and<br>Hydrology Department,<br>WREA | Have overall responsibility<br>for hydrometeorology early<br>warning information services<br>countrywide;<br>Observe hazard situations<br>and generate meteorological,<br>geophysical and phonological<br>data;<br>Analyze data for issuing<br>forecasts and warnings for<br>aviation, agriculture,                                       | Organize awareness<br>campaigns on the revised<br>signaling system of cyclonic<br>storm for the river and sea<br>port;<br>Prepare agency contingency<br>plan to secure from<br>earthquake effect the staff,<br>equipment and spare<br>parts.<br>Disseminate warning about<br>hazards to relevant users<br>through speedy<br>communication | up.<br>Scrutinize, compare and<br>publish data for appraisal of<br>long term weather trends<br>and earthquakes;<br>Analyse extreme events<br>observed in the past and<br>their future trends; e.g.<br>climate change, weather<br>modification, land-ocean-<br>atmosphere interaction,<br>seasonal weather prediction | Supports task 2.2 in the<br>National Disaster<br>Management Plan.                 |
|--|---|---|--|---|
| Lao Red Cross                                    | shipping, sports, irrigation<br>etc;<br>Issue forecasts and warnings<br>for any approaching events<br>that might cause damage and<br>loss to life and property.<br>The representative of the Lao<br>Red Cross shall serve as a<br>member of the NDMC; shall<br>appoint a disaster<br>management contact person<br>from the Lao Red Cross; | Responsible for initiating<br>rapid assessments and<br>producing disaster<br>information following a<br>disaster event; responsible<br>for joint emergency  | and etc.<br>Responsible for disaster<br>management training,<br>organizing drills and exercises<br>for Lao Red Cross volunteers<br>and the general public.   | Supports tasks 2.2, 3.3, 6.1,<br>6.4 in the National Disaster<br>Management Plan. |
|  | Develop disaster  | operations in rescue and  |  |   |

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| 015 | DRAFT NATIONAL DISASTER MANAGEMENT PLAN |  |
|-----|---|--|
|     |   |  |

|               | 1                               |                               |                           |                          |
|---------------|---------------------------------|-------------------------------|---------------------------|--------------------------|
|               | preparedness and response       | relief provision for disaster |                           |                          |
|               | plans at national level and for | affected persons; initiate    |                           |                          |
|               | all branch offices in the high  | joint mobilization of relief  |                           |                          |
|               | risk areas                      | assistance from Red           |                           |                          |
|               | Develop teams of volunteers     | Cross/Red Crescent partners;  |                           |                          |
|               | for disaster preparedness       | Work closely with local       |                           |                          |
|               | and response;                   | authorities in conducting     |                           |                          |
|               | Train the volunteers in         | joint assessments of          |                           |                          |
|               | emergency preparedness and      | damages and losses and        |                           |                          |
|               | response (e.g. evacuation,      | needs of disaster survivors.  |                           |                          |
|               | first aid, fire fighting, early |                               |                           |                          |
|               | warning etc).                   |                               |                           |                          |
| Youth Union   | Young people can act as         | Direct involvement in         | Support post-recovery and | Supports task 2.2 in the |
|               | informants within unofficial    | disaster management work      |                           | National Disaster        |
|               | communication networks          | develops a better sense of    |                           | Management Plan.         |
|               | which evolve within a           | community and civic           | provincial authorities.   | C                        |
|               | community setting as the        | consciousness.                |                           |                          |
|               | need arises;                    |                               |                           |                          |
|               | children and youth play a       |                               |                           |                          |
|               | major role as interpreters      |                               |                           |                          |
|               | and relays of messages to       |                               |                           |                          |
|               | their households and            |                               |                           |                          |
|               | communities;                    |                               |                           |                          |
|               | Map need for a holistic         |                               |                           |                          |
|               | approach to DRR - addressing    |                               |                           |                          |
|               | vulnerabilities related to      |                               |                           |                          |
|               | health, environment,            |                               |                           |                          |
|               | education, religion,            |                               |                           |                          |
|               | household economic security     |                               |                           |                          |
|               | and other sectors, which        |                               |                           |                          |
|               | impact together on a            |                               |                           |                          |
|               | community and individual's      |                               |                           |                          |
|               | wellbeing.                      |                               |                           |                          |
| Women's Union | Give special attention to the   | Make institutional            | Ensure that needs of      | Supports task 2.2 in the |
|               | <u> </u>                        | I                             | I                         | ••                       |

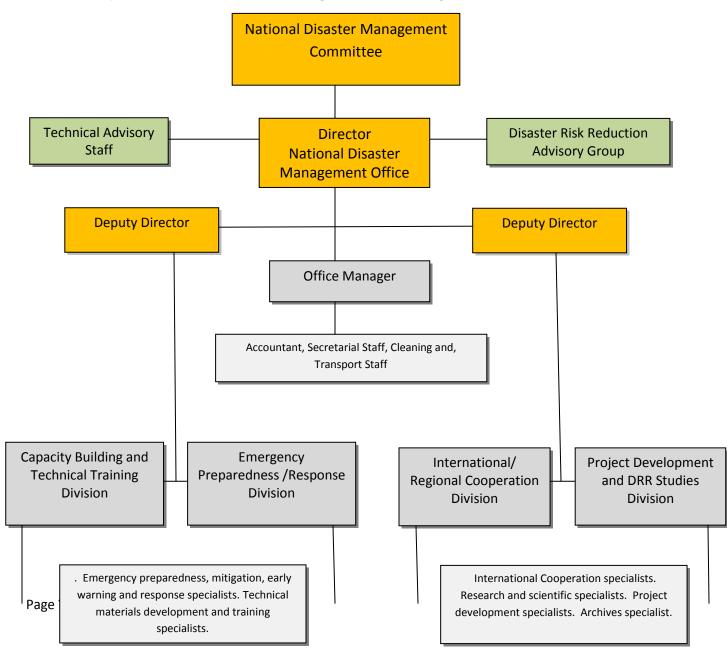
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| coci | ial, cultural and economic  | arrangements for         | women      | survivors are       | National         | Disaster |
|------|-----------------------------|--------------------------|------------|---------------------|------------------|----------|
|      |                             |                          |            |                     |                  | Disaster |
|      | eds of women, children      | involvement of women ir  |            | d in post disaster  | Management Plan. |          |
|      | l most disadvantaged        | disaster risk reduction. | situations | during the relief,  |                  |          |
| gro  | ups in disaster and risk    |                          | rehabilita | tion and            |                  |          |
| mar  | nagement by using           |                          | reconstru  | ction phases;       |                  |          |
| par  | ticipatory tools such a     |                          | Facilitate | participation of    |                  |          |
| vulr | nerability and capacity     |                          | women ir   | n the management    |                  |          |
| asse | essments;                   |                          | of relief, | rehabilitation and  |                  |          |
| Rais | se awareness of the         |                          | reconstru  | ction activities;   |                  |          |
| dec  | cision makers and staff at  |                          | Support    | post-disaster       |                  |          |
| the  | Ministry about the          |                          | rehabilita | tion of livelihoods |                  |          |
| spe  | cial vulnerabilities and    |                          | of wome    | n survivors, which  |                  |          |
| сар  | acities of women with       |                          | is mostly  | in the informal     |                  |          |
| rela | ation to disasters;         |                          | sector an  | d is ignored many   |                  |          |
| Pro  | mote awareness amongst      |                          | times.     |                     |                  |          |
| wor  | men in hazard-prone         |                          |            |                     |                  |          |
| area | as about disaster risks and |                          |            |                     |                  |          |
| disa | aster preparedness;         |                          |            |                     |                  |          |
| Dev  | velop capacities of         |                          |            |                     |                  |          |
| wor  | men's organizations on      |                          |            |                     |                  |          |
| disa | aster risk reduction and    |                          |            |                     |                  |          |
| pre  | paredness.                  |                          |            |                     |                  |          |

# Annex B NDMO Restructuring and New Terms of Reference

The following structure is proposed for undertaking the 2012-2015 activities proposed in the National Disaster Management Plan. The following 16 positions have been suggested for the National Disaster Management Office for the period 2012 -2015: Director General (1), Deputy Directors (2), Head of Divisions (4), Deputy Head of Divisions (4), Office Manager (1), Head, Information Management (1), Accountant (1), and Secretary (2). The recommendations are based upon examination of the hierarchy necessary for the National Disaster Management Office to perform the responsibilities articulated by the National Disaster Management Commission in addition to the regional/international networking tasks undertaken on behalf of the Government of Lao PDR.

#### Proposed National Disaster Management Office Organizational Structure



A four-person donor funded technical assistance team is also recommended to offer technical assistance to the newly recruited staff. The team would include a Chief Technical Advisor (1), Technical Assistant (1) Secretary/Translator (1) and a Driver/Messenger (1)

The Disaster Risk Reduction Advisory Group proposed could be filled by bodies such as the Inter-Agency Standing Committee Emergency and Disaster Preparedness and Response for Lao PDR in addition to other technical groups i.e. AADMER (ASEAN Agreement for Disaster Management and Emergency Response, the Mekong River Commission, and the National Committee on Communicable Diseases and Control.

# DRAFT TERMS OF REFERENCE FOR PROPOSED NATIONAL DISASTER MANAGEMENT OFFICE 2012 - 2015

#### NATIONAL DISASTER MANAGEMENT OFFICE

#### TERMS OF REFERENCE Director General

# **Objectives of Assignment**

The Director General reports to the Chairmen of the National Disaster Management Committee and works with National Disaster Management Office staff and technical advisors with responsibilities pertaining to the coordination, monitoring and capacity development of disaster risk reduction in the Lao PDR.

# Scope of Work

The Director General shall undertake the following specific tasks:

- Day-to-day management of National Disaster Management Office activities;
- Establish comprehensive working procedures related to the management of the annual working plans and oversee their compliance;;
- Put in place and facilitate results-based implementation of activities;
- Effective monitoring for ensuring implementation of strategic activities;
- Ensure that activities are executed according to the Annual Work Plan and within established budgets;
- Coordinate with relevant Government implementing partners and donors to ensure that expected results are delivered in a timely manner and in compliance with government and donor guidelines;
- Assess the programmatic impact and oversee the appropriateness and the accuracy of methods used to verify progress and the results;
- Manage and monitor the national disaster risks identified, inform the National Disaster Management Committee of such and propose mitigation measures to redress risks at the national, provincial, district and village levels;
- Prepare and submit the reports to the National Disaster Management Committee, donor agencies and international/regional disaster management stakeholders; and
- Performance of other duties as required in support of project implementation.

# **Requirements for Position**

- A minimum of 20 years professional experience as a senior administrative or department director in a national institution;;
- Advanced university degree in social sciences, public administration, international development, engineering or a discipline relevant to disaster risk reduction;

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- Experience working with government, non-governmental agencies, civil society and private sector, and the United Nations and donor agencies at the national and regional levels.
- Demonstrated ability related to management of project cycles, including project formulation, monitoring, reporting and evaluation, and understanding of donor requirements;
- Must be a proactive team player committed to adding value to disaster risk reduction activities;
- Ability to identify sustainable resolutions to problems, handle multi-tasking situations and negotiate resolutions with national and international stakeholders;
- Knowledge of disaster risk in the Asian region and willingness and ability to travel within the region;
- Fluency in Lao and English and strong skills in oral and written presentations.

# Place and Duration of Assignment

The Director General will be employed in the National Disaster Management Office in Vientiane, Lao PDR. The duration of this assignment is four year 2012 to 2015.

# NATIONAL DISASTER MANAGEMENT OFFICE

#### TERMS OF REFERENCE DEPUTY DIRECTOR

# **Objectives of Assignment**

The two positions of Deputy Director report to the Director General of the National Disaster Management Office and each leads the activities of two specific departments (Capacity Building and Technical Training and the Emergency Preparedness/Response) and (International/Regional Cooperation and Project Development and DRR Studies). The two Deputy Directors supervise staff that is responsible for the initiation and accomplishment of specific activities linked to the annual objectives of the National Disaster Management Office.

# Scope of Work

The two Deputy Directors will undertake the following specific tasks:

- Contribute to the development of a vision and policy statement for the National Disaster Management Office and the National Disaster Management Committee;
- Develop the executive, planning and operational roles and responsibilities of staff assigned to the National Disaster Management Office;
- Lead the process of developing annual implementation plans with clearly articulated objective, activities and benchmark reference to measure progress with staff;
- Provide guidance and mentoring to staff while supporting group dynamics in task management while monitoring department progress;
- Develop effective working relationships with staff and regional stakeholders in disaster risk reduction initiatives;
- Contribute to donor reporting requirements by preparing concise reports in a timely manner on project activity achievements, constraints encountered and how they were resolved, revisions to the implementation work plan and expenditures to the approved annual budget.

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- A minimum of 15 years professional experience as a senior administrative or development manager, with government or organizations engaged in disaster risk reduction, capacity building and skills development and community animation;
- Advanced university degree in social sciences, public administration, international development, engineering or a discipline relevant to disaster risk reduction;
- Experience working with government, non-governmental agencies, civil society and private sector, and donor agencies at the national and regional levels.
- Demonstrated ability related to management of project cycles, including project formulation, monitoring, reporting and evaluation, particularly donor requirements;
- Must be a proactive team player committed to adding value to National Disaster Management Office activities;
- Ability to identify sustainable resolutions to problems, handle multi-tasking situations and negotiate resolutions with national and international stakeholders;
- Knowledge of Asian region and willingness and ability to travel within the region;
- Fluency in Lao and English and strong skills in oral and written presentations.

# Place and Duration of Assignment

The Deputy Directors will be employed in the National Disaster Management Office in Vientiane, Lao PDR. The duration of this assignment is four years: 2012 to 2015.

#### NATIONAL DISASTER MANAGEMENT OFFICE

#### TERMS OF REFERENCE HEAD OF DIVISION/DEPUTY HEAD OF DIVISION

#### **Objectives of Assignment**

The Head of Division/Deputy Head of Division are technical positions reporting to the Deputy Directors of the National Disaster Management Office and each leads the activities of specific departments including the Capacity Building and Technical Training and Department, Emergency Preparedness/Response Department, International/Regional Cooperation and Project Development and DRR Studies Department. One Senior Specialist is assigned to each Department with additional Specialist performing tasks required for completion of annual activity targets linked to the annual/multi-year objectives of the National Disaster Management Office.

# Scope of Work

The Head of Division (4) /Deputy Head of Division (4) will undertake the following specific tasks:

- Support the development of the National Disaster Management Office capacity building and technical training to permit knowledge to be used in critical planning and decision-making by national/regional stakeholders with responsibilities for disaster preparedness, mitigation, early warning, recovery, reconstruction and rehabilitation;
- Undertake technical activities as instructed by the Deputy Director;

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- Collaborate with other staff and other disaster risk stakeholders to create effective mechanisms for mutually supportive activities to be successful;
- Contribute to the overarching goals of the National Disaster Management Office by active participation in weekly staff meetings and offering information technology support to achieve and add synergy to the objectives of the National Disaster Management Office.
- Maintain appropriate linkages to member states and the media to ensure that the goals/purposes are well understood and that its achievements receive public attention;
- Actively participate in in-house committees to develop policies, presentations and materials to raise awareness of the National Disaster Management Office tasks to create disaster resilience in the Lao PDR;
- Contribute to the organization and initiation of workshops and training sessions for government staff and disaster risk reduction stakeholders;
- Preparation of timely and accurate reporting of Departmental activities ;
- Assist the National Disaster Management Office and other disaster risk reduction stakeholders to conduct baseline studies and analysis of data to develop strategic planning for capacity development initiatives; and
- Any additional tasks and responsibilities as requested by the Deputy Director.

- A minimum of 5 to 10 years professional experience in a technical capacity i.e. information technology, emergency preparedness, mitigation, early warning and response, legal and international cooperation, project development and archival activities, with organizations engaged in disaster risk reduction
- Advanced university degree in social sciences, public administration, international development, engineering or a discipline relevant to disaster risk reduction;
- Experience working with government, non-governmental agencies, civil society and private sector, the United Nations and donor agencies at the national and regional levels.
- Demonstrated ability related to management of project cycles, including project formulation, monitoring, reporting and evaluation, particularly with donor requirements;
- Must be a proactive team player committed to adding value to National Disaster Management Office activities;
- Ability to identify sustainable resolutions to problems, handle multi-tasking situations and negotiate resolutions with national and international stakeholders;
- Knowledge of the Asian region and willingness and ability to travel within the region;
- Fluency in Lao and English and strong skills in oral and written presentations.

# Place and Duration of Assignment

The Senior Specialist/Specialist will be employed in the National Disaster Management Office in Vientiane, Lao PDR. The duration of this assignment is four years: 2012 to 2015.

# NATIONAL DISASTER MANAGEMENT OFFICE

#### TERMS OF REFERENCE OFFICE MANAGER

# **Objectives of Assignment**

The Office Manager is an administrative position reporting to the Director of the National Disaster Management Office. The Office Manager oversees the secretarial, transportation and security staff in addition to the administrative functions to ensure that the tasks required for completion of annual activity targets linked to the annual/multi-year objectives of the National Disaster Management Office are undertaken in a timely, efficient and effective manner.

# Scope of Work

The Office Manager will undertake the following specific tasks:

- Supervise the activities of the secretarial pool to meet the requirements of the Director General and Deputy Directors.
- Supervise the activities of the drivers in the transportation pool to ensure the vehicles are
  operated in an efficient and effective manner In support of core business and properly maintained
  in good working order;
- Supervise the work of the cleaning staff to ensure that the premises and assets are protected around the clock and that the National Disaster Management Office is maintained at the highest standard of cleanliness and order;
- Support in the development of human resources policies and procedures and the maintenance of personnel records and files;
- Assist in the development of the National Disaster Management Office annual operating budget; and
- Other tasks as proposed by the Director.

# Requirements for Position

- A minimum of 10 years professional experience in a senior management role in a public/private sector organization;
- Advanced university degree in, public administration, business administration or human resources;
- Experience working with government, non-governmental agencies, civil society and private sector;
- Demonstrated ability related to management of project cycles, including scheduling, personnel supervision and mentoring and conflict resolution;
- Must be a proactive team player committed to adding value to National Disaster Management Office activities;
- Ability to identify sustainable resolutions to problems, handle multi-tasking situations and negotiate resolutions with staff;
- Fluency in Lao and English and strong skills in oral and written presentations.

# Place and Duration of Assignment

The Office Manager will be employed in the National Disaster Management Office in Vientiane, Lao PDR. The duration of this assignment is four years: 2012 to 2015.

#### NATIONAL DISASTER MANAGEMENT OFFICE

#### TERMS OF REFERENCE HEAD, INFORMATION MANAGEMENT

# **Objectives of Assignment**

This position will assist the senior staff with their informational management responsibilities pertaining to the work of the National Disaster Management Office. The Head, Information Management, under the supervision of the Office Manager shall undertake assignments for the Director General, Deputy Directors and Head of Divisions as required to support their data management responsibilities in a timely and accurate manner.

#### Scope of Work

The Head, Information Management will undertake the following specific tasks:

- Develop data base management systems for all Divisions for the National Disaster Management Office;
- Support the technical training of National Disaster Management Office staff to use and manage the data management programs;
- Support the information exchange between national, regional and international disaster risk reduction stakeholders;
- Support the data collection and collation requirements during video conferences, workshops and dialogues with disaster risk reduction partners;
- Develop a sound understanding of the disaster risk reduction terminology used by staff and the correct usage in Lao and English languages; and
- Undertake any other work as assigned by the Office Manager.

#### **Requirements for Position**

- A minimum of 5 years professional experience as a Information Technology specialist developed with a public or private sector organization, experience with a United Nation or non-governmental organization preferred;
- University degree in Information Management;
- Must be a self-starting team player committed to producing timely and accurate work;
- Fluency in Lao and English and strong skills in oral and written presentations.

#### Place and Duration of Assignment

The Head, Information Management will be employed in the National Disaster Management Office in Vientiane, Lao PDR. The duration of this assignment is four years 2012 to 2015.

#### NATIONAL DISASTER MANAGEMENT OFFICE

#### TERMS OF REFERENCE ACCOUNTANT

#### **Objectives of Assignment**

The Accountant is an administrative position reporting to the Director of the National Disaster Management Office. The Accountant will ensure that financial transactions and reporting of

expenditures, procurement and documentation of inventory items and periodic fiscal reports and budgets are prepared in a timely and accurate manner.

# Scope of Work

The Accountant will undertake the following specific tasks:

- Maintain an accounting system for the project consistent with standard government and donor practices that includes systems for advances/receipts, disbursements and monthly financial reconciliation statements;
- Audit the fiscal statements prepared by the financial and administrative department;
- Assist in the preparation of annual budgets for the National Disaster Management Office and monitor project line item expenditures and account balances;
- Review invoices submitted for payment for conformity to contractual terms; and
- Undertake any other fiscal activities as assigned by the Director.

# **Requirements for Position**

- A minimum of 7 years professional experience as a Accountant with a public or private sector organization, experience with the Government, United Nation or non-governmental organization preferred;
- University degree in finance, public administration, or business management;
- Demonstrated proficiency in use of office equipment with computer literacy in Microsoft Office, spreadsheets and power point presentations;
- Must possess and excellent understanding of fiscal management and committed to producing timely and accurate fiscal reports and budgets.
- Fluency in Lao and English and strong skills in oral and written presentations.

# Place and Duration of Assignment

The Accountant will be employed in the National Disaster Management Office in Vientiane, Lao PDR. The duration of this assignment is four years 2012 to 2015.

#### NATIONAL DISASTER MANAGEMENT OFFICE

#### TERMS OF REFERENCE SECRETARY

#### **Objectives of Assignment**

This position will assist the senior staff with their responsibilities pertaining to operations of the National Disaster Management Office. The Secretary shall be supervised by the Office Manager and shall undertake assignments for the Director and Deputy Directors as required in a timely and accurate manner.

# Scope of Work

The Secretary will undertake the following specific tasks:

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- Provide overall secretarial and administrative support to the National Disaster Management Office senior staff as requested;
- Establish and maintain files of correspondence, reports, personnel and other project materials in a central data filing system;
- Maintain close relationship with colleagues to facilitate meetings, appointments and training initiatives; and
- Undertake any other clerical work as assigned by the technical staff.

- A minimum of 5 years professional experience as a Secretary with a public or private sector organization, experience with a United Nation or non-governmental organization preferred;
- University degree in public administration, linguistics, international development, or social science discipline relevant to disaster risk reduction as a part of development;
- Demonstrated proficiency in use of office equipment with computer literacy in Microsoft Office, spreadsheets and power point presentations;
- Must be a self-starting team player committed to producing timely and accurate work;
- Fluency in Lao and some English and strong skills in oral and written presentations.

# Place and Duration of Assignment

The Secretary will be employed in the National Disaster Management Office in Vientiane, Lao PDR. The duration of this assignment is four years 2012 to 2015.

# NATIONAL DISASTER MANAGEMENT OFFICE

#### TERMS OF REFERENCE HEAD, INFORMATION MANAGEMENT

# **Objectives of Assignment**

This position will assist the senior staff with their informational management responsibilities pertaining to the work of the National Disaster Management Office. The Head, Information Management, under the supervision of the Office Manager shall undertake assignments for the Director General, Deputy Directors and Head of Divisions as required to support their data management responsibilities in a timely and accurate manner.

# Scope of Work

The Head, Information Management will undertake the following specific tasks:

- Develop data base management systems for all Divisions for the National Disaster Management Office;
- Support the technical training of National Disaster Management Office staff to use and manage the data management programs;
- Support the information exchange between national, regional and international disaster risk reduction stakeholders;

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- Support the data collection and collation requirements during video conferences, workshops and dialogues with disaster risk reduction partners;
- Develop a sound understanding of the disaster risk reduction terminology used by staff and the correct usage in Lao and English languages; and
- Undertake any other work as assigned by the Office Manager.

- A minimum of 5 years professional experience as a Information Technology specialist developed with a public or private sector organization, experience with a United Nation or non-governmental organization preferred;
- University degree in Information Management;
- Must be a self-starting team player committed to producing timely and accurate work;
- Fluency in Lao and English and strong skills in oral and written presentations.

# Place and Duration of Assignment

The Head, Information Management will be employed in the National Disaster Management Office in Vientiane, Lao PDR. The duration of this assignment is four years 2012 to 2015.

#### DONOR AGENCY PROJECT STAFF

#### TERMS OF REFERENCE CHIEF TECHNICAL ADVISOR

## **Objectives of Assignment**

Under the supervision of the Director General of the National Disaster Management Office, the Chief Technical Advisor will provide disaster risk management advice and support to the senior staff of the National Disaster Management Office for enhancing the quality and delivery of activities to mainstream and promote disaster risk reduction in the Lao PDR.

#### Scope of Work

The Chief Technical Advisor will undertake the following specific tasks:

- Provide technical and programmatic advice on disaster risk reduction to the Director and staff of the National Disaster Management Office and the National Disaster Management Committee;
- Provide on-going advice on the development of strategies for the implementation of each output based on the initial intent of the National Disaster Management Office work plan;
- Advise on the formation and capacity development of the staff to implement and oversee project activities;
- Advise on the integration of member states disaster risk reduction activities in concert with the National Disaster Management Office and support partnership development with regional/international stakeholders in disaster risk reduction.
- Analyze and review the implementation of project activities and provide advice to ensure their quality and relevance to present and future environmental situations;
- Promote coordination among Asian nations through information sharing, workshops and dialogues to maximize synergy and knowledge exchange;
- Serve as a disaster risk reduction resource person in the Asian/Pacific region;
- Assist in the identification and acquisition of needed project resources and fiscal support;
- Provide oversight on the monitoring and evaluation mechanisms of project activities;
- Provide support and advice to incorporate climate change adaptation across disaster risk reduction activities in risk knowledge, preparedness, mitigation and prevention;
- Ensure gender perspective is mainstreamed in disaster risk reduction work; and
- Perform other related functions as requested.

#### **Requirements for Position**

- A minimum of 15 years professional experience in development programming, particularly on the design, implementation and evaluation of disaster risk reduction projects;
- Advanced university degree in social sciences, public administration, international development, engineering or a discipline relevant to disaster risk reduction as a part of development;

- Experience working with government, non-governmental agencies, civil society and private sector, and the United Nations and donor agencies at the national and regional levels.
- Demonstrated ability related to management of project cycles, including project formulation, monitoring, reporting and evaluation, particularly donor requirements;
- Must be a proactive team player committed to adding value to National Disaster Management Office activities;
- Ability to identify sustainable resolutions to problems, handle multi-tasking situations and negotiate resolutions with national and international stakeholders;
- Knowledge of the Asian region and willingness and ability to travel within the region;
- Fluency in Lao and English and strong skills in oral and written presentations.

# Place and Duration of Assignment

The Chief Technical Advisor will be employed at the National Disaster Management Office in Vientiane, Lao PDR The duration of this assignment is four years – 2012 to 2015.

#### DONOR AGENCY PROJECT STAFF TERMS OF REFERENCE

# **TECHNICAL ASSISTANT**

# **Objectives of Assignment**

This position will assist the Chief Technical Advisor and have responsibilities pertaining to support of the National Disaster Management Office. The Technical Assistant will ensure that project activities in disaster risk reduction are of technical excellence, supporting the Hyogo Framework for Action, and strengthening networks and linkages between the National Disaster Management Office and national, regional and global risk reduction stakeholders.

# Scope of Work

The Technical Advisor will undertake the following specific tasks:

- Provide support to the Chief Technical Advisor, Deputy Directors and staff of the National Disaster Management Office.
- Contribute collective expertise to the technical departments in the planning of annual implementation plans, monitoring of departmental objectives and activities, problem resolutions and skills development of staff;
- Advise on the development of operational strategies for information technology, analyses and evaluations and the policy and standards;
- Advise on the development of national and regional and geographic specific disaster risk reduction planning;
- Contribute to in-house/external assessments and its activities; and

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• Advise on management and fiscal responsibilities and reporting for the provision of activities in training, advocacy, procurement and initiation of disaster risk reduction initiatives in the Lao PDR and with regional states.

# **Requirements for Position**

- A minimum of 10 years professional experience in development programming, particularly on the design, implementation and evaluation of disaster risk reduction projects;
- Advanced university degree in social sciences, public administration, international development, engineering or a discipline relevant to disaster risk reduction as a part of development;
- Experience working with government, non-governmental agencies, civil society and private sector, and the United Nations and donor agencies at the national and regional levels.
- Demonstrated ability of team building and skills development aptitudes and mentoring/support to technical staff engaged in training, administration and finance and advocacy;
- Must be a proactive team player committed to adding value to the National Disaster Management Office activities;
- Ability to identify sustainable resolutions to problems, handle multi-tasking situations and negotiate resolutions with national and international stakeholders;
- Knowledge of the Asian region and willingness and ability to travel within the region;
- Fluency in Lao and English and strong skills in oral and written presentations.

# Place and Duration of Assignment

The Technical Assistant will be employed in the National Disaster Management Office in Vientiane, Lao PDR. The duration of this assignment is four years: 2012 to 2015.

# DONOR AGENCY SUPPORT STAFF

# TERMS OF REFERENCE SECRETARY/TRANSLATOR

# **Objectives of Assignment**

This position will assist the Chief Technical Advisor and the Technical Assistant with their responsibilities pertaining to support of the National Disaster Management Office. The Secretary/Translator will ensure that overall project office secretarial and administrative support, including translation of correspondence and other documents are undertaken in a timely and accurate manner.

# Scope of Work

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The Secretary/Translator will undertake the following specific tasks:

- Provide overall secretarial and administrative support to the Chief Technical Advisor and the Technical Assistant as requested;
- Establish and maintain files of correspondence, reports, personnel and other project materials in a central data filing system;
- Maintain close relationship with National Disaster Management Office colleagues to facilitate meetings, appointments and training initiatives;
- Translate project documents and correspondence from Lao-English and English-Lao; and
- Undertake any other clerical work as assigned by the Chief Technical Advisor or the Technical Assistant.

# **Requirements for Position**

- A minimum of 5 years professional experience as a Secretary/Translator with a public or private sector organization, experience with a United Nation or non-governmental organization preferred;
- University degree in public administration, linguistics, international development, or social science discipline relevant to disaster risk reduction as a part of development;
- Demonstrated proficiency in use of office equipment with computer literacy in Microsoft Office, spreadsheets and power point presentations;
- Must be a self-starting team player committed to producing timely and accurate work; and
- Fluency in Lao and English and strong skills in oral and written presentations.

# Place and Duration of Assignment

The Secretary/Translator will be employed in the National Disaster Management Office in Vientiane, Lao PDR. The duration of this assignment is four years 2012 -2015.

# DONOR AGENCY SUPPORT STAFF

#### TERMS OF REFERENCE DRIVER/MESSENGER

# **Objectives of Assignment**

This position will assist the Chief Technical Advisor and the Technical Assistant with their responsibilities pertaining to support of the National Disaster Management Office. The Driver/Messenger will operate the project vehicle to provide transportation services to staff and to undertake messenger services as required.

# Scope of Work

The Driver/Messenger will undertake the following specific tasks:

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- Provide transportation services as required for the performance of project related activities;
- Maintain vehicle with daily cleaning, checking fluids, tires and overall condition and maintaining a vehicle log book of travel;
- Undertake the receipt and delivery of mail and other articles as requested by project staff; and
- Undertake the purchase of office materials as requested by the Chief Technical Advisor.

- A minimum of 7 years professional experience as a Driver with a public or private sector organization, experience with a United Nation or non-governmental organization preferred;
- Must possess an accident-free driving record for the past 5 years.
- Must possess good written and oral skills in Lao language with some knowledge of English.

# Place and Duration of Assignment

The Driver/Messenger will be employed in the National Disaster Management Office in Vientiane, Lao PDR. The duration of this assignment is four years 2012 -2015.

# Annex C Disaster Terminology

# DISASTER RISK MANAGEMENT TERMINOLOGY

## TERMS

**Capacity-Building**: Efforts aimed to develop human skills or societal infrastructure within a community or organization needed to reduce the level of risk. Capacity-building also includes development of institutional, financial, political and other resources, such as technology at different levels and sectors of the society.

**Climate Change Adaptation**: Adaptation is defined by the IPCC as "the adjustment in natural or human systems in response to actual or expected climatic stimuli or their effects, which moderates harm or exploits beneficial opportunities".<sup>11</sup> Examples of adaptation include preparing risk assessments, protecting ecosystems, improving agricultural methods, managing water resources, building settlements in safe zones, developing early warning systems, instituting better building designs, improving insurance coverage and developing social safety nets.

**Community**: a social group of any size whose members reside in a specific locality, share government, and often have a common cultural and historical heritage.

**Disaster :** A serious disruption of the functioning of a community or a society causing widespread human, material, economic or environmental losses which exceed the ability of the affected community or society to cope using its own resources.

**Disaster Risk Management** : The systematic process of using administrative decisions, organization, operational skills and capacities to implement policies, strategies and coping capacities of the society and communities to lessen the impacts of natural hazards and related environmental and technological disasters. This comprises all forms of activities, including structural and non-structural measures to avoid (prevention) or to limit (mitigation and preparedness) adverse effects of hazards.

**Disaster Risk Reduction:** Disaster risk reduction can be defined as "actions taken to reduce the risk of disasters and the adverse impacts of natural hazards through systematic efforts to analyze and manage the causes of disaster including through avoidance of hazards, reduced social and economic vulnerability to hazards, and improved preparedness for adverse events".<sup>12</sup> It is therefore tailor-made to help counteract the added risks arising from climate change.

**Disaster Risk Reduction Plans**: Documents that set out planning authorities' policies and proposals for disaster risk reduction, which should be considered in the respective development plan and development actions. Due to the different geographical scales applicable at different levels, disaster risk reduction plans are specific to each level of government.

**Emergency**: An emergency is a situation that poses an *immediate risk* to health, life, property or environment. Most emergencies require urgent intervention to prevent a worsening of the situation, although in some situations, mitigation may not be possible and agencies may only be able to offer palliative care for the aftermath. While some emergencies are self evident (such as a natural disaster

<sup>&</sup>lt;sup>11</sup>IPCC Fourth Assessment Report, Working Group II, Glossary of Terms: http://195.70.10.65/pdf/glossary/ar4-wg2.pdf.

<sup>&</sup>lt;sup>12</sup> UNISDR Terminology on Disaster Risk Reduction Based on the 2004 Terminology: Basic terms of disaster risk reduction: http://www.unisdr.org/eng/library/lib-terminology-eng%20home.htm. Page **91** of **97** 

that threatens many lives), many smaller incidents require the subjective opinion of an observer (or affected party) in order to decide whether it qualifies as an emergency.

**Gender Mainstreaming:** Mainstreaming a gender perspective is the process of assessing the implication for women and men of any planned action, including legislation, policies or programmes, in all areas and at all levels. It is a strategy for making women's as well as men's concerns and experiences an integral dimension of the design, implementation, monitoring and evaluation of policies and programmes in all political, economic and societal spheres so that women and men benefit equally and inequality is not perpetuated. The ultimate goal is to achieve gender equality.

**Hazard**: A potentially damaging physical event, phenomenon or human activity that may cause the loss of life or injury, property damage, social and economic disruption or environmental degradation.

**Mitigation**: Structural and non-structural measures undertaken to limit the adverse impact of natural hazards, environmental degradation and technological hazards. (Examples of structural measures are engineering works and hazard-resistant construction, while non-structural measures include awareness-raising, knowledge development, policies on land use and resource management, and facilities' operating practices.

**National Platform for Disaster Risk Reduction**: A nationally owned and led forum or committee of multi-stakeholders. It serves as an advocate of disaster risk reduction at different levels and provides coordination, analysis and advice on areas of priority requiring concerted action through a coordinated and participatory process. A National Platform for disaster risk reduction should be the coordination mechanism for mainstreaming disaster risk reduction into development policies, planning and programmes in line with the implementation of the HFA. It should aim to contribute to the establishment and the development of a comprehensive national disaster risk reduction system, as appropriate to each country.<sup>13</sup>

**National Policy Framework**: A set of policies adopted by a national authority to define and coherently address a particular issue and to guide decision-making, where these policies comprise relevant assessments, strategies, goals, approaches, rules, plans, activities, priorities, agents and responsibilities. A national disaster risk reduction policy framework can guide all stakeholders - sector agencies, local governments and others - in the development of complementary risk reduction policies in their areas of authority.

**Preparedness**: Pre-disaster activities that are undertaken within the context of disaster risk management and are based on sound risk analysis. This includes the development or enhancement of an overall preparedness strategy, policy, institutional structure, warning and forecasting capabilities, and plans that define measures geared to helping at-risk communities safeguard their lives and assets by being alert to hazards and taking appropriate action in the face of an imminent threat or an actual disaster. (Source: OCHA)

**Prevention**: Activities to provide outright avoidance of the adverse impact of hazards and means to minimize related environmental, technological and biological disasters. Depending on social and technical feasibility and cost-benefit considerations, investing in preventive measures is justified in areas frequently affected by disasters. In the context of public awareness and education related to disaster risk reduction, changing attitudes and behavior contribute to promoting a "culture of prevention".

<sup>&</sup>lt;sup>13</sup> UN/ISDR Guidelines National Platforms for Disaster Risk Reduction

**Public Awareness**: The processes of informing the general population, increasing levels of consciousness about risks and how people can act to reduce their exposure to hazards. This is particularly important for public officials in fulfilling their responsibilities to save lives and property in the event of a disaster. Public awareness activities foster changes in behavior leading towards a culture of risk reduction. This involves public information, dissemination, education, radio or television broadcasts and use of printed media, as well as the establishment of information centers and networks and community and participation actions.

**Relief/Response**: The provision of assistance or intervention during or immediately after a disaster to meet the life preservation and basic subsistence needs of those people affected. It can be of an immediate, short-term, or protracted duration.

**Resilience**: The capacity of a system, community or society potentially exposed to hazards to adapt, by resisting or changing in order to reach and maintain an acceptable level of functioning and structure. This is determined by the degree to which the social system is capable of organizing itself to increase its capacity for learning from past disasters for better future protection and to improve risk reduction measures.

**Risk**: The probability of harmful consequences, or expected losses (deaths, injuries, property, livelihoods, economic activity disrupted or environment damaged) resulting from interactions between natural or human-induced hazards and vulnerable conditions.

**Risk Assessment/Analysis**: A methodology to determine the nature and extent of risk by analyzing potential hazards and evaluating existing conditions of vulnerability that could pose a potential threat or harm to people, property, livelihoods and the environment on which they depend.

**Vulnerability:** A measurement of community elements at risk that are exposed to specific hazards, both natural and human induced, and that have a low level of resilience to cope with the impacts of that hazard or characteristics of that hazard that threatens many lives), many smaller incidents require the subjective opinion of an observer (or affected party) in order to decide whether it qualifies as an emergency.

# Annex D

# Linkages of the Key Strategic Goals to Key International and National Drivers for Change

Note: An X designates where a linkage exists between the specific driver and the Lao PDR National Disaster Management Plan.

| Element of<br>Drivers                                    | Goal 1:<br>Professionalize<br>The Disaster<br>Management<br>System | Goal 2:<br>Mainstream<br>Risk<br>Reduction | Goal 3:<br>Strengthen<br>Institutional<br>Mechanisms | Goal 4:<br>Empowering<br>At Risk<br>Communities | Goal 5:<br>Expand<br>Risk<br>Reduction<br>Programs | Goal 6:<br>Strengthening<br>Emergency<br>Response<br>Systems | Goal 7:<br>Developing<br>and<br>Strengthening<br>Networks |
|--|--|--|--|---|--|--|---|
| United<br>Nations<br>Millennium<br>Development<br>Goals: |  |  |  |   |  |  |   |
| Eradicate<br>extreme<br>poverty and<br>hunger            |  | x  | x  | x   | x  |  |   |
| Achieve<br>universal primary<br>education                |  | x  | x  | x   | x  | x  |   |
| Promote gender<br>equality and<br>empower women          | x  | x  |  | x   | x  | x  | x   |
| Ensure<br>environmental<br>sustainability                | x  | x  | x  | x   | x  |  | x   |
| Reduce child mortality                                   |  | x  | x  | x   | x  | x  | x   |
| Improve maternal<br>health                               |  | X  | x  | x   | x  | x  | x   |

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| Element of<br>Drivers<br>Combat<br>HIV/AIDs,<br>malaria and other<br>diseases  | Goal 1:<br>Professionalize<br>The Disaster<br>Management<br>System | Goal 2:<br>Mainstream<br>Risk<br>Reduction | Goal 3:<br>Strengthen<br>Institutional<br>Mechanisms | Goal 4:<br>Empowering<br>At Risk<br>Communities | Goal 5:<br>Expand<br>Risk<br>Reduction<br>Programs | Goal 6:<br>Strengthening<br>Emergency<br>Response<br>Systems | Goal 7:<br>Developing<br>and<br>Strengthening<br>Networks |
|--|--|--|--|---|--|--|---|
| Develop a global<br>partnership for<br>development   | x  | X  | X  |   | X  |  | x   |
| Reduce the impact of UXO   | x  | x  | x  | x   | x  | x  | x   |
|  |  |  |  |   |  |  |   |
| Hyogo<br>Framework<br>for Action<br>2005-2015<br>Integration of<br>disaster risk<br>reduction<br>considerations<br>into<br>sustainable<br>development<br>policies,<br>planning and<br>programming<br>at all levels | X  | X  | X  | x   | x  | X  | X   |
| Incorporation<br>risk<br>reduction<br>into the design,<br>implementation<br>of emergency<br>preparedness,<br>response/<br>recovery<br>programmes<br>of affected<br>communities.                                    | x  |  |  | x   | x  | x  |   |

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| Element of<br>Drivers  | Goal 1:<br>Professionalize<br>The Disaster<br>Management<br>System | Goal 2:<br>Mainstream<br>Risk<br>Reduction | Goal 3:<br>Strengthen<br>Institutional<br>Mechanisms | Goal 4:<br>Empowering<br>At Risk<br>Communities | Goal 5:<br>Expand<br>Risk<br>Reduction<br>Programs | Goal 6:<br>Strengthening<br>Emergency<br>Response<br>Systems | Goal 7:<br>Developing<br>and<br>Strengthening<br>Networks |
|--|--|--|--|---|--|--|---|
| Development<br>and<br>strengthening<br>of institutions,<br>mechanisms<br>and capacities<br>at all levels, in<br>particular at<br>the community<br>level. | x  | x  | x  | x   | x  | x  | x   |
|  |  |  |  |   |  |  |   |
| ISDR Guiding<br>Principles:<br>National<br>Platforms for<br>Disaster RIsk<br>Reduction   |  |  |  |   |  |  |   |
| Increase public<br>awareness to<br>understand<br>risk,<br>vulnerability<br>and disaster<br>reduction<br>globally   |  | x  |  | x   |  |  |   |
| Commitment<br>from public<br>authorities to<br>implement<br>disaster<br>reduction<br>policies and<br>actions   | x  | x  | x  |   |  |  | x   |
| Stimulate<br>Interdisciplinary/<br>intersectoral<br>partnerships<br>and expansion<br>UNFCC<br>risk reduction   | x  |  | x  |   |  |  | x   |

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| networks.  |  |  |  |   |  |  |   |
|--|--|--|--|---|--|--|---|
| Element of<br>Drivers  | Goal 1:<br>Professionalize<br>The Disaster<br>Management<br>System | Goal 2:<br>Mainstream<br>Risk<br>Reduction | Goal 3:<br>Strengthen<br>Institutional<br>Mechanisms | Goal 4:<br>Empowering<br>At Risk<br>Communities | Goal 5:<br>Expand<br>Risk<br>Reduction<br>Programs | Goal 6:<br>Strengthening<br>Emergency<br>Response<br>Systems | Goal 7:<br>Developing<br>and<br>Strengthening<br>Networks |
| Improve<br>scientific<br>knowledge<br>about disaster<br>reduction  | x  |  | x  | x   | x  |  | x   |
|  |  |  |  |   |  |  |   |
| PRSP<br>Comprehensive<br>Disaster<br>Management<br>towards<br>Poverty<br>Reduction<br>and Growth:<br>Policy Matrix<br>key strategic<br>goals:  |  |  |  |   |  |  |   |
| Mainstreaming<br>Disaster<br>Management<br>and Risk<br>Reduction into<br>National<br>Policies,<br>Institutions and<br>Development<br>Processes | x  | x  | x  |   | x  | x  | x   |
| Strengthening<br>disaster<br>management<br>and risk<br>reduction<br>capacity   | x  | x  | x  | x   | x  | x  |   |
| Knowledge<br>management<br>on disaster risk<br>reduction.  | x  |  |  | x   | x  |  |   |
| Enhancing community  |  |  |  |   |  |  |   |

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| level capacity<br>for disaster risk<br>reduction.             |  |  | X  | X   | X  |  |   |
|---|--|--|--|---|--|--|---|
| Element of<br>Drivers   | Goal 1:<br>Professionalize<br>The Disaster<br>Management<br>System | Goal 2:<br>Mainstream<br>Risk<br>Reduction | Goal 3:<br>Strengthen<br>Institutional<br>Mechanisms | Goal 4:<br>Empowering<br>At Risk<br>Communities | Goal 5:<br>Expand<br>Risk<br>Reduction<br>Programs | Goal 6:<br>Strengthening<br>Emergency<br>Response<br>Systems | Goal 7:<br>Developing<br>and<br>Strengthening<br>Networks |
| Ensuring social<br>protection of<br>the most<br>disadvantaged | X  | х  | X  | x   | x  |  | X   |

# ANNEX E

# The Millennium Development Goals and Disaster Risk Reduction

Disasters can affect a nation's core mission and retard progress across focus areas such as: social investment and urban development; modernization of the state; competitiveness; regional cooperation; and environment and natural resource management. In order to provide effective development assistance a nation needs to approach disaster risk management as an investment in sustainable development.

# 1. Eradicating extreme poverty and hunger

Recent statistical analyses prove a long-held theoretical position that human vulnerability to natural hazards and income poverty are largely co-dependent. At the national level, reducing disaster risk is often contingent upon alleviating poverty and vice versa. Many lower income people live in substandard housing that is less able to withstand natural forces. Some live in high-density settlements near cities, built on steep slopes that are vulnerable to landslides. Others live in low-lying areas that are at risk of flooding. In rural areas poverty drives deforestation and unsustainable agricultural practices. In addition, poor people have less access to resources to help them recover from physical losses. They are less likely to have savings, insurance, or access to credit, which could help them finance reconstruction costs. This situation can cause permanent setbacks in the lowest income quintiles and thwarts their efforts at climbing out of poverty.

# 2. Achieving universal primary education

Educational attainment is a fundamental determinant of human vulnerability and marginalization. Broadening participation in development decision-making is a central tenet of disaster risk management. The destruction of schools is one very direct way in which disasters can inhibit educational attainment, but perhaps more important is the drain on household resources. Households frequently have to make difficult decisions on expending resources on survival and coping with poverty, or on investments (such as education and health care) to alleviate human vulnerability and enhance longer-term development prospects. If affected by a disaster, the poorest have little choice and devote their resources to survival; sending children to school falls lower in their list of priorities.

# 3. Promoting gender equality and empowering women

Facilitating the participation of women and girls in the development process, including efforts to reduce disaster risk, is a key priority. Women across the world play critical roles in the shaping of risks in development. In some contexts, women may be more exposed and vulnerable to hazards. For example, those with responsibilities in the household may be more exposed to risk due to unsafe buildings. At the same time, women are often more likely than men to participate in communal actions to reduce risk and enhance development. Orienting disaster risk policy so that it builds on the social capital represented by women can enable a more informed development policy. Such a model will not be easy, but best practice does exist to point the way. Barriers to women's participation at the higher levels of decision-making often severely

limit their skills and knowledge available for reducing disaster risk. Overcoming disparities in access to education is a fundamental component of the disaster risk management agenda.

# 4. Reducing child mortality

Children under five years of age are particularly vulnerable to the impacts of hazards such as floods and drought through drowning and starvation as well as to environmental risks of inadequate sanitation and lack of drinkable water, which cause communicable diseases. In addition, health infrastructure is often damaged and made inoperable in a catastrophic event. The loss of caregivers and household income earners and the stress of displacement can have especially heavy tolls on the psychological and physical health of children less than five years of age. Policies to support sustainable development by reducing child mortality need to build in strategies to limit or reduce disaster risk.

# 5. Improving maternal health

As environmental hazard stress or shock erodes the savings and capacities of households and families, marginal people within these social groups are most at risk. In many cases it is women and girls or the aged who have the least entitlement to household or family assets. Maternal health is a strategic indicator of intra- and inter-household equality. Reducing drains on household assets through risk reduction will contribute to enhancing maternal health. More direct measures through investment in education and health will similarly contribute to household resilience as maternal health indicators improve. Children have already been identified as a high-risk group and maternal health plays a part in shaping the care received by young children.

# 6. Combating HIV/AIDS, malaria and other diseases

The interactions between epidemiological status and human vulnerability to subsequent stresses and shocks are well documented. For example, rural populations affected by HIV/AIDS are less able to cope with the stress of drought because of a shortage of labor. Individuals living with chronic terminal diseases are more susceptible to the physiological stress of hunger. For diseases transmitted through vectors, there is a risk of epidemic following floods or drought, similarly the destruction of drinking water, sanitation and health care infrastructure in catastrophic events can increase the risk of disease.

# 7. Ensuring environmental sustainability

Environmental degradation increases the vulnerability to natural hazards and often transforms a hazard event into a disaster. Environmental degradation compounds the actual impacts of hazard events, limits an area's ability to absorb those impacts, and lowers the overall natural resilience to hazard impacts and disaster recovery. For example, deforestation may aggravate the effects heavy rainfall causing landslides and floods. Unplanned urbanization poses a challenge because it creates conditions that increase human vulnerability to disasters and at a high damage propensity. Informal settlement often takes place in highly dangerous locations, such as steep hillsides vulnerable to landslides, riverbeds prone to urban floods and near industrial installations subject to technological disasters. The target of achieving a significant improvement in the lives of at least 100 million slum dwellers by the year 2020 will be Page **100** of **97** 

impossible without developing policies to confront their currently high risk from earthquake, hurricanes, flooding and drought. Natural hazards may also increase the risk of environmental degradation. For example, wildfires may result in deforestation and erosion, floods cause sedimentation and earthquakes may rupture gas pipelines or cause other types of industrial accidents with severe environmental impacts.

# 8. Developing a global partnership for development

Efforts to enhance sustainable development by reducing human vulnerability to natural hazards are challenged by competing priorities in national development agendas and by political incentive structures that favor disaster response over risk management. International and bilateral organizations must help generate a framework of incentives that encourage the private sector, academia and civil society to create partnerships with national and local governments to address disaster prevention as an integral part of development policies. Strong efforts are needed to build global partnerships for development that integrate the reduction of disaster risk.<sup>14</sup>

<sup>&</sup>lt;sup>14</sup> Adapted from "Reducing Disaster Risk: A Challenge for Development", United Nations Development Program, 2004, p. 16. Page **101** of **97**