Experiences, Gaps and Needs in Disaster Risk Reduction and Climate Change Adaptation Planning and Financing

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Contents

• Legislation
• Institutional Arrangement
• Experiences
• Needs
• Gaps
Legislation
National Framework

Myanmar Action Plan on Disaster Risk Reduction (MAPDRR) 2012
## Components of MAPDRR

<table>
<thead>
<tr>
<th>S/N</th>
<th>Component</th>
<th>HFA Priorities</th>
<th>AADMER</th>
<th>No. of Projects</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td><strong>Component 1</strong>: Policy, Institutional Arrangements and Further Institutional development</td>
<td>Priority 1</td>
<td>Article 6,10</td>
<td>4</td>
</tr>
<tr>
<td>2</td>
<td><strong>Component 2</strong>: Hazard, Vulnerability and Risk Assessment</td>
<td>Priority 2</td>
<td>Article 5</td>
<td>8</td>
</tr>
<tr>
<td>3</td>
<td><strong>Component 3</strong>: Multi-hazard Early Warning System</td>
<td>Priority 2</td>
<td>Article 7</td>
<td>10</td>
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<tr>
<td>4</td>
<td><strong>Component 4</strong>: Preparedness and Response Programs at National, State/Division, District&amp; Township Levels</td>
<td>Priority 5</td>
<td>Article 6,8</td>
<td>10</td>
</tr>
<tr>
<td>5</td>
<td><strong>Component 5</strong>: Mainstreaming Disaster Risk Reduction into Development</td>
<td>Priority 4</td>
<td>Article 6</td>
<td>13</td>
</tr>
<tr>
<td>6</td>
<td><strong>Component 6</strong>: Community based Disaster Preparedness and Risk Reduction</td>
<td>Cross-cutting</td>
<td>Article 6,7</td>
<td>9</td>
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<tr>
<td>7</td>
<td><strong>Component 7</strong>: Public Awareness, Education and Training</td>
<td>Priority 3</td>
<td>Article 6,7</td>
<td>11</td>
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<tr>
<td></td>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td><strong>65</strong></td>
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</tbody>
</table>
Natural Disaster Management Law

• Title and Definition
• Objectives
• Formation of National Natural Disaster Management
• Formation of Natural Disaster
• Declaration of Being a Natural Disaster Affected Area
• Natural Disaster Management
• Natural Disaster Management Fund
• Offence and Penalties
• Miscellaneous
Institutional Arrangement
Institutional Arrangement

National Disaster Preparedness Central Committee

- National Disaster preparedness working committee

- Information sub-committee
- Emergency communication sub-committee
- Search and Rescue sub-committee
- Initial assessment and Emergency Supply sub-committee
- Damage and loss confirmation sub-committee
- Transport and road clearance sub-committee
- Risk reduction and emergency Shelter sub-committee
- Health care sub-committee
- Rehabilitation and Reconstruction sub-committee
- Security sub-committee
Disaster Risk Management

1. Pre-Disaster
   (a) Risk Assessment
   (b) Mitigation
   (c) Prevention
   (d) Preparedness

2. Disaster Response
   (a) Warning/Evacuation
   (b) search and Rescue
   (c) Emergency Relief
   (d) Assessing Damage
3. Post-Disaster Recovery

(a) Reconstruction

(b) Resettlement

(c) Rehabilitation
Experiences
**Experiences**

<table>
<thead>
<tr>
<th>No.</th>
<th>Date</th>
<th>Hazard</th>
<th>Estimate Loss (Kyats)</th>
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<tbody>
<tr>
<td>1</td>
<td>26-12-2004</td>
<td>Tsunami</td>
<td>(1585.56) Million</td>
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<tr>
<td>2</td>
<td>2/3-May-2008</td>
<td>Cyclone Nargis</td>
<td>(11.7) Trillion</td>
</tr>
<tr>
<td>3</td>
<td>22-10-2010</td>
<td>Cyclone Giri</td>
<td>(0.024) Trillion</td>
</tr>
<tr>
<td>4</td>
<td>24-3-2011</td>
<td>Tarlay Earthquake</td>
<td>(3031.30) Million</td>
</tr>
<tr>
<td>5</td>
<td>19/20-10-2011</td>
<td>Magway Flash Flood</td>
<td>15465.25 Million</td>
</tr>
<tr>
<td>6</td>
<td>11-11-2012</td>
<td>Tabaikkyin Earthquake</td>
<td>(8140.12) Million</td>
</tr>
</tbody>
</table>
Cyclone Nargis

- 2/3-May-2008
- Wind Speed 120 miles per hour
- (7) township in Ayeyarwaddy
- (40) township in Yangon Region
- Death (138373)
- Damage & losses (11.7) Trillion Kyats
Cyclone Giri

- 22-10-2010
- (8) townships in Rakhine State,
  (1) township in Mandalay Region,
  (4) township in Mgway Region
- Death – 57
- Damage & loss (0.024) Trillion
Tarlay Earthquake

- 24-3-2011
- Tarcheleik Township, Tarlay sub-township
- (7) Richter scale
- Death - 76
- Injury - 100
- Damage & losses - (3,031.30) Million
Magway Flash Flood

- 19/20-10-2011
- Pakyaukkyu, SatePhyu, Pauk, Myaing
- Death & lost 161
- Damage & losses - (15,465.25) Million
Thabaikkyin Earthquake

- 11-11-2012
- Sagaing and Mandalay Regions
- Death- 18
- Injury- 114
- Damage & losses-
  (8,140.12) Million
Coordination, Cooperation and Communication System For DRM

National Disaster Preparedness Central Committee

- International Organization
- UN/INGOs
- ACDM

Ministry of Social Welfare, Relief and Resettlement

Relief and Resettlement Department

- AHA Centre
- Concerned Department

Ministeries
- State/Regional Government
- Intelligentsia
- Private Organization
- LNGOs
Wall Poster
• Crops and properties insurances has been initiated
• Guidelines for integrating disaster risk information, into Urban Land Use Planning in Myanmar (with special reference to Mandalay city) has been developed
• Training in mainstreaming disaster and climate risk management into development planning.
• National building codes has been developed
• Annual contingency fund Kyat 100 billion, especially for disasters.
Needs
• Technical assistance for all levels in DRR and CCA in Planning and Financing.

• Financial assistance for physical infrastructures such as electrification and communication facilities in prone and affected areas.

• To increase the budget of the critical infrastructures (especially hospitals, schools, etc) to be hazard resistant

• More varieties of hazard resistant crops

• Financial and Technical assistance for Natural Disaster Management Center
Gaps
• Stronger coordination, cooperation and linkages among the sectors
• Improvements for institutional capacity
• Effective implementation to realize inclusiveness of all multi stakeholders
• Lacks of skills in risk assessment due to geological and climatology equipments
• Lacks of skills in loss assessment and post disaster needs
Thank you for your attention!