Disaster Management System of Myanmar and Cyclone Nargis Response

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Social Welfare Department

Introduction
Located in Southeast Asia

the 2nd largest country in ASEAN (678,500) sq km.

Bangladesh, India, China, Laos and Thailand as neighbors and 1930 km coastline with the Bay of Bengal and Andaman sea

Geographically situated between two highly populous nations: China and India

Strategic location near major Indian ocean shipping lane

PERCENTAGE OF DISASTER OUTBREAK IN MYANMAR (1998-99 to 2007-08)

- Fire 71%
- Storm 11%
- Flood 10%
- Other 8%
Recent Major Disaster

<table>
<thead>
<tr>
<th>Year</th>
<th>Disaster</th>
<th>killed</th>
<th>injured</th>
<th>No. of victims</th>
<th>Losses estimated (US$)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2004</td>
<td>Tsunami</td>
<td>61</td>
<td>42</td>
<td>2592</td>
<td>264.26 mil</td>
</tr>
<tr>
<td>2006</td>
<td>Cyclone Mala</td>
<td>37</td>
<td>23</td>
<td>42856</td>
<td>210.12 mil</td>
</tr>
<tr>
<td>2007</td>
<td>Cyclone Akash</td>
<td>14</td>
<td>-</td>
<td>10570</td>
<td>982.12 mil</td>
</tr>
</tbody>
</table>

Cyclone Nargis Response

- Cyclone Nargis struck Myanmar on 2\textsuperscript{nd} and 3\textsuperscript{rd} May 2008 with wind speed of 120-140 mph.
- Height of storm surge was 12-18 feet.
- The most affected areas were 7 townships in Ayeyawaddy division and 40 townships in Yangon division.
<table>
<thead>
<tr>
<th>Damage and Loss</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Death toll</td>
<td>84537</td>
</tr>
<tr>
<td>Missing</td>
<td>53836</td>
</tr>
<tr>
<td>Injured</td>
<td>19359</td>
</tr>
<tr>
<td>Totally damaged houses</td>
<td>450000</td>
</tr>
<tr>
<td>Partially damaged houses</td>
<td>350000</td>
</tr>
<tr>
<td>Affected population</td>
<td>2.4 million</td>
</tr>
<tr>
<td>Total damage and Loss</td>
<td>11 trillion (Kyat)</td>
</tr>
</tbody>
</table>
National Disaster Preparedness Central Committee

Prime Minister
Secretary(1), State Peace and Development Council
(15) Ministers Concerned
Mayor (YGN, MDY)
Minister (SWRR)
Person Assigned by chairman

Chairman
Vice Chairman
Member
Member
Secretary
Joint Secretary

Organization Chart of Central Committee, Working Committee and Sub-committees
Responsibilities of Minister for Social Welfare, Relief and Resettlement

- National Disaster Preparedness Secretary
  Central Committee
- Sub-committee for Rehabilitation and Chairman
  Reconstruction
- Cash and Kind Receiving Chairman
  and Supervisory Committee
Special Meeting of ASEAN Foreign Ministers in Singapore on 19th May 2008 agreed to form ASEAN Humanitarian Task Force (HTF) for Victims of Cyclone Nargis.

ASEAN-UN Pledging Conference was held in Yangon, Myanmar on 25th May 2008.

TCG entered into force on 31 May 2008.

3 representatives each from Government of Myanmar, ASEAN and United Nations.

Chaired by U Kyaw Thu, Deputy Minister for Ministry of Foreign Affairs.

Main task is to coordinate among UN agencies, INGOs and Myanmar Govt. in relief and rehabilitation activities.
• Post-Nargis Joint Assessment (PONJA) was carried out by TCG in 291 affected villages with the assessment team member of over 300.
• Village Tract Assessment (VTA) and Damage and Loss Assessment (DaLA) were done.
• PONJA was officially launched on 21st July 2008.
• PONJA is the guidance for Post-Nargis Recovery and Reconstruction.

**Tripartite Core Group (TCG)**

**Strategic Advisory Group**

**Technical Advisory Group**
Institution of Clusters

- Food Cluster
- Water and Sanitation
- Shelter
- Health
- Child and Woman Protection
- Nutrition
- Education
- Agriculture
- Early Recovery
- Logistics
- Emergency Telecommunication
Project (Outline)

- After the emergency relief and rehabilitation, the following 4 phases will be carried out:

  - Phase 1: Transition Period (The period after emergency relief/rescue and rehabilitation)
  
  - Phase 2: Short term Resettlement (Quick reconstruction of urban and rural settings until farming and fishery are normalized)

- Phase 3: Long Term Reconstruction (To upgrade the outputs of Phase (2) up to the International Standards)

- Phase 4: Preparedness (Create locations (safe-heavens) in order to avoid recurrence of casualty and death)
Actions Taken by the Government

Emergency Phase

- Held Emergency meeting of the National Disaster Preparedness Central Committee on 3rd May 2008, and (8) ministers have been assigned to take response action in separate affected (8) areas.
Prime Minister holds The National Disaster Preparedness Central Committee Meeting on 3rd May, 2008

Prime Minister and party visit emergency relief camp in Yangon on 4th May, 2008
▪ The Ministers in charge of respective areas were appointed and they supervised relief tasks for storm-hit regions thoroughly.

▪ There are 2 central relief camps in Yangon and Pathein Townships, 3 transaction camps in Maubin, Myaungmya, Wakema, and 6 transaction and distribution relief camps in Haigyi Island, Phyapon, Labutta, Bogale, Dedaye, and Mawlamyinekyun Townships and, 12 front-line camps at disaster affected areas.

▪ The relief tasks were done with the strength of armed-forces as a main source because so many military assets were used.
Temporary school
Temporary clinic

### International Aids (In Kind) (Up to 3rd November 2008)

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity (Ton)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foodstuff</td>
<td>17095.36</td>
</tr>
<tr>
<td>Construction Materials</td>
<td>2990.03</td>
</tr>
<tr>
<td>Utensils</td>
<td>1670.28</td>
</tr>
<tr>
<td>Medicine</td>
<td>429.15</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>22184.82</strong></td>
</tr>
</tbody>
</table>
### International Aids (In Cash) (Up to 3rd November 2008)

<table>
<thead>
<tr>
<th>Currency</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>US$</td>
<td>$5496030.22</td>
</tr>
<tr>
<td>Euro</td>
<td>€2891344.89</td>
</tr>
<tr>
<td>Singapore $</td>
<td>$152371.35</td>
</tr>
<tr>
<td>FEC</td>
<td>₹256900.00</td>
</tr>
<tr>
<td>Indian Rupee</td>
<td>₹7126.00</td>
</tr>
<tr>
<td>Ringgit Malaysia</td>
<td>₹300.00</td>
</tr>
<tr>
<td>Thai Baht</td>
<td>¥3740485.00</td>
</tr>
</tbody>
</table>

### Domestic Relief Aids (In Cash) (Up to 3rd November 2008)

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foodstuff</td>
<td>3058.75</td>
<td>Ton</td>
</tr>
<tr>
<td>Construction Materials</td>
<td>1836.82</td>
<td>Ton</td>
</tr>
<tr>
<td>Utensils</td>
<td>1641.70</td>
<td>Ton</td>
</tr>
<tr>
<td>Medicine</td>
<td>98.14</td>
<td>Ton</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>6635.41</strong></td>
<td><strong>Ton</strong></td>
</tr>
</tbody>
</table>
Post Nargis Recovery

Rehabilitation of Agriculture Sector

Power tiller 8536 Nos.
Draught cattle 2633 Nos.
Paddy strains 1.8 Basket (million)
Pumps 153 Nos.

97.08% of cultivation is finished in Ayeyawady Division and 113% in Yangon Division.
Rehabilitation of Fishery Sector

Fishing Boats  11918  Nos.
Fishing Nets   18529  Nos.
Rehabilitation of Salt Industry

- Rehabilitation of salt industry is being started in open season (October).

- Ministries concerned will supply finance, tractors, water pumps, tarpaulins, tents and fuel to salt makers.

- 300000 tons of salt including inland salt are planned to produce this year.

Reconstruction of Low Cost Housing

- 8000 units in first phase and 10000 units in second phase are planned to be reconstructed.
- 600 USD per 1 unit.
- 7725 units have already been donated by UN agencies, INGOs and well-wishers.
- 4852 units had been constructed for Cyclone Victims.
Renovation of damaged schools

- 60% of destroyed schools had been renovated so far mostly in temporary structures.
- 30% of school furniture could be provided for reconstructed school.

Construction of Cyclone Shelters

- Construction of cyclone shelters are being started in (17) sites.
- Many Coordination Meetings were held by Rehabilitation and Reconstruction Sub-Committee and relevant government departments, UN agencies and INGOs for ensuring appropriate design.
- Cyclone Shelter Design Competition was held by Myanmar Engineering Society for emerging best design.
Construction of Five Main Highways

The five main road project in coastal regions will be implemented up to the status of earthen roads in the rainy season. The road section close to villages will be built up to the height from 25 to 30 feet and they will be used as shelter in the event of disasters.

These five main highways are:
- Maubin - Yeelay - Shwetawmaw - Kyaikpi - Mawlamyaingyun Highway (43 miles 7 phlons)
- Mawlamyaingyun - Hlaingpone - Thitpoke - Kwinpauk - Pyinsalu Highway (52 miles)
- Labutta - Thingangyi - Pyinsalu Highway (35.2 miles)
- Bogale - Kyeinchaung - Kadonkani Highway (39 miles)
- Labutta - Thongwa - Oatwin - Htaiksun Highway (37 miles)
Cooperation with INGOs

40 INGOs and NGOs are collaborating with the Ministry of Social Welfare, Relief and Resettlement in the following rehabilitation and reconstruction programs:
- Water and Sanitation
- Livelihood
- Income generating
- Community Infrastructure
- Disaster Risk Reduction
- Protection for children, women, disabilities and elderly persons
- Psycho social support
Disaster Preparedness

National Level Workshop
International Humanitarian Response Workshop jointly conducted by MSWRR & UNHCR e-Centre on (3-11-08 to 7-11-08) in Yangon.

State/Division Level Training
TOT on Disaster Risk Reduction (12 day Course) (from Sep, 08 to up to date, 3 Batches of TOT Training were conducted and 110 trainees were trained.)

Township Level Training
Disaster Management Course (5 day Course), (Including Community Based Disaster Risk Reduction Approach)
Future Plan

- Establish Standing Order
- Development of Early Warning Systems
- Risk Mapping
- Community Based Disaster Management

Thank You for your kind attention.