Disaster Management System in India

“Building a Safer and Disaster Resilient India”
Disaster Management in India


3. NDMA constituted with Executive Order in May 2005.

Disaster Management Act 2005 –
A Paradigm Shift

• From a response and relief-centric approach to a holistic approach covering prevention, mitigation and preparedness to rehabilitation, reconstruction and recovery.

• The Act provides for:
  • Establishment of *legal and institutional framework* at all three levels i.e. National, State and District.
  • Formulation of *policy and plan* backed by statutory and financial support.
  • Mainstreaming of *multi-sectoral DM concerns* into the developmental process and mitigation measures.
DM Structure: National

National Level

- NDMA set up as the Apex Body with Hon’ble PM as Chairperson.
- National Executive Committee (NEC) under Home Secretary with Secretaries of 14 Ministries and Chief of Integrated Defence Staff Function as Executive Committee of NDMA.

DM Structure: State & District

State Level

- SDMA at State Level, headed by Chief Minister.
- State Executive Committee (SEC), headed by Chief Secretary,
- SEC to prepare State Plan and coordinate & monitor its implementation.

District Level

- DDMA headed by District Magistrate.
- Chairperson of Zila Parishad as Co-Chairperson.
- Preparation of District Disaster Management Plan (DDMP).
DM: Institutional & Financial

OTHERS

- National Disaster Response Force (NDRF).
- National Institute of Disaster Management (NIDM).
- Disaster Response Fund at the National and State level has been constituted by merging NCCF and CRF respectively (NDRF/SDRF).
- Disaster Mitigation Fund (NDMF/SDMF – 15th FC Recommended).
Financing for DM

• Windows and allocations recommended by 15th FC –

<table>
<thead>
<tr>
<th>Funds</th>
<th>Amount (Rs. crore)</th>
<th>Percentage Share</th>
</tr>
</thead>
<tbody>
<tr>
<td>NDMF</td>
<td>13693</td>
<td>20</td>
</tr>
<tr>
<td>NDRF</td>
<td>54770</td>
<td>80</td>
</tr>
<tr>
<td>Total (NDMF+NDRF)</td>
<td>68463</td>
<td>100</td>
</tr>
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<table>
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<tr>
<th>Windows of NDRF</th>
<th>Amount (Rs. crore)</th>
<th>Percentage Share</th>
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<tbody>
<tr>
<td>Response and Relief</td>
<td>27385</td>
<td>40</td>
</tr>
<tr>
<td>Recovery and Reconstruction</td>
<td>20539</td>
<td>30</td>
</tr>
<tr>
<td>Preparedness and Capacity Building</td>
<td>6846</td>
<td>10</td>
</tr>
<tr>
<td>Total NDRF Corpus</td>
<td>54770</td>
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</table>
Responsibilities of Central Ministries/ Departments

- Take necessary measures for prevention of disasters, mitigation, preparedness and capacity building; (Section 36)
- Integrate the measures for prevention or mitigation of disasters into their development plans and projects; (Section 36)
- Prepare Disaster Management Plan (DMP) and update annually; (Section 37)
- Allocate funds for undertaking the activities under its DM Plan. (Section 49)
## Institutional Mechanism: Nodal Ministries/ Departments

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Disaster</th>
<th>Disaster being handled by</th>
<th>Nodal Ministry</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Earthquake</td>
<td>Ministry of Home Affairs</td>
<td>Ministry of Earth Sciences</td>
</tr>
<tr>
<td>2.</td>
<td>Flood</td>
<td>Ministry of Home Affairs</td>
<td>Ministry of Water Resources</td>
</tr>
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<td>3.</td>
<td>Cyclone</td>
<td>Ministry of Home Affairs</td>
<td>India Meteorological Department under Ministry of Earth Sciences</td>
</tr>
<tr>
<td>4.</td>
<td>Tsunami</td>
<td>Ministry of Home Affairs</td>
<td>Ministry of Earth Sciences</td>
</tr>
<tr>
<td>5.</td>
<td>Landslide</td>
<td>Ministry of Home Affairs</td>
<td>Ministry of Mines</td>
</tr>
<tr>
<td>6.</td>
<td>Avalanches</td>
<td>Ministry of Home Affairs</td>
<td>Ministry of Defence</td>
</tr>
<tr>
<td>7.</td>
<td>Drought, Hailstorm &amp; Pest Attack</td>
<td>Ministry of Agriculture &amp; Cooperation</td>
<td>Department of Agriculture &amp; Cooperation, Ministry of Agriculture</td>
</tr>
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# Institutional Mechanism: Nodal Ministries/Departments

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<tr>
<td>9.</td>
<td>Nuclear Disaster</td>
<td>Ministry of Home Affairs/Department of Atomic Energy</td>
<td>Department of Atomic Energy</td>
</tr>
<tr>
<td>10.</td>
<td>Industrial and Chemical Disasters</td>
<td>Ministry of Environment, Forests &amp; Climate Change</td>
<td>Ministry of Environment, Forests &amp; Climate Change</td>
</tr>
<tr>
<td>12.</td>
<td>Rail Accidents</td>
<td>Ministry of Railways</td>
<td>Ministry of Railways</td>
</tr>
<tr>
<td>13.</td>
<td>Road Accidents</td>
<td>Ministry of Road Transport &amp; Highways</td>
<td>Ministry of Road Transport &amp; Highways</td>
</tr>
<tr>
<td>14.</td>
<td>Aviation Accidents</td>
<td>Ministry of Civil Aviation</td>
<td>Ministry of Civil Aviation</td>
</tr>
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# Institutional Mechanism: Early Warning & Dissemination

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<td>Flood</td>
<td>Ministry of Water Resources/ Central Water Commission (CWC)</td>
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<td>2.</td>
<td>Cyclone</td>
<td>India Meteorological Department (IMD) under Ministry of Earth Sciences</td>
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<td>3.</td>
<td>Tsunami</td>
<td>Ministry of Earth Sciences/ INCOIS</td>
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<tr>
<td>4.</td>
<td>Drought, Hailstorm &amp; Pest Attack</td>
<td>Department of Agriculture &amp; Cooperation, Ministry of Agriculture (MoA)</td>
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Mandate of NDMA

- Policies on disaster management;
- Guidelines for preparation of plans by Ministries/Departments and States;
- Approve the National Plan;
- Approve plans prepared by the Ministries or Departments;
- Coordinate enforcement & implementation of policy and plan;
- Recommend funds for mitigation;
- Provide support to other countries;
- Take measures for prevention, mitigation, preparedness and capacity building;
- Policies and guidelines for the NIDM.
Hon’ble Prime Minister Shri Narendra Modi released the National Disaster Management Plan (NDMP) on 01.06.2016. This is the first ever national plan prepared in the country. The Plan has been subsequently revised in 2019.
Covers all aspects of disaster management - institutional, legal and financial arrangements,

disaster prevention, mitigation and preparedness,

 techno-legal regime,

response, relief and rehabilitation, reconstruction and recovery, capacity development, knowledge management and research and development.
Guidelines Issued

1. Earthquakes;
2. Tsunami;
3. Cyclones;
4. Floods;
5. Urban Flooding;
6. Drought;
7. Landslides & Snow Avalanches;
8. Nuclear and Radiological Emergencies (Unclassified) - I);
9. Chemical (Industrial) Disasters;
10. Chemical (Terrorism) Disaster;
11. Biological Disasters;
Guidelines Issued

12. Medical Preparedness and Mass Casualty Management;
13. Psycho-Social and Mental Health Care;
14. Formulation of State Disaster Management Plans;
15. Incident Response System;
16. IT and Communication;
17. Scaling, Type of Equipment and Training of Fire Services;
19. School Safety Policy;
20. Hospital Safety;
Guidelines Issued

23. Boat Safety;
24. Museum Disaster Management;
25. Management of Cultural Heritage and Precincts;
26. Temporary Shelters;
27. Disability inclusive Disaster Risk Reduction;
28. Thunderstorm, Squall and Lightning;
29. Cold Wave and Frost;
30. Glacial Lake Outburst Floods;
31. Management of Dead in the Aftermath of Disaster;
32. Landslide Risk Mitigation Strategy.
National Cyclone Risk Mitigation Project (NCRMP)

Drawn up to address cyclone risks in the country in 2011.

Objectives:

i) To strengthen the structural and non-structural cyclone mitigation efforts.

ii) To reduce the cyclone risk and vulnerability in the coastal districts prone to cyclones.

iii) To build capacities and capabilities for cyclone risk mitigation.

• Phase I covering Andhra Pradesh and Odisha.
• Phase II covering Six States – Goa, Gujarat, Karnataka, Kerala, Maharashtra and West Bengal.
Initiatives being Implemented

- Upscaling of Aapda Mitra Scheme (**UAMS**) - Volunteerism in DM
- Common Alerting Protocol (**CAP**) - Early warning dissemination
- Emergency Response Support System (**ERSS**) - single number response 112
Regional and Global Level

• Regional Joint Response Exercises:
  - SAARC – SAADMEEx (2015)
  - BIMSTEC DMEx (2017) (2019-20)
  - SCO (2019)
  - Indian Ocean Rim Association (2019)

• Events:
  - BRICS Disaster Management Ministerial Meeting (2016).
  - AMCDRR (2016)
  - Pacific Island Countries (2017) – 20 participants from 11 PIC

• Coalition for Disaster Resilient Infrastructure (CDRI).
Thanks for your attention!