

Tsunami Evacuation Planning Workshop

24 Aug 2022

Pakistan

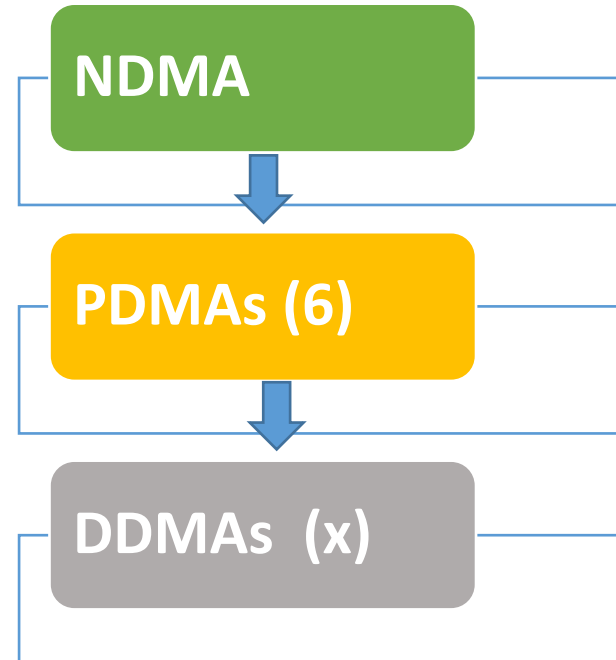
Tsunami Evacuation Planning Working Group

- NDMA
- PMD
- PDMA Baluchistan
- PDMA Sindh
- Navy
- Pakistan Coast Guard
- Marine Security Agency
- DDMA Gwadar
- DDMA Malir Karachi
- DDMA West Karachi
- NED University
- RCDC Gwadar
- PRCS
- NIO
- Sind Coastal Development

Pilot Areas- DDMAAs (LDMMOs)

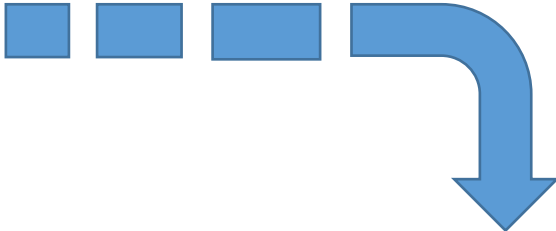
- District Gwadar
- District West Karachi
- District Malir Karachi

DMO Structure In Pakistan and Relevant Policies



Tsunami Evacuation Planning

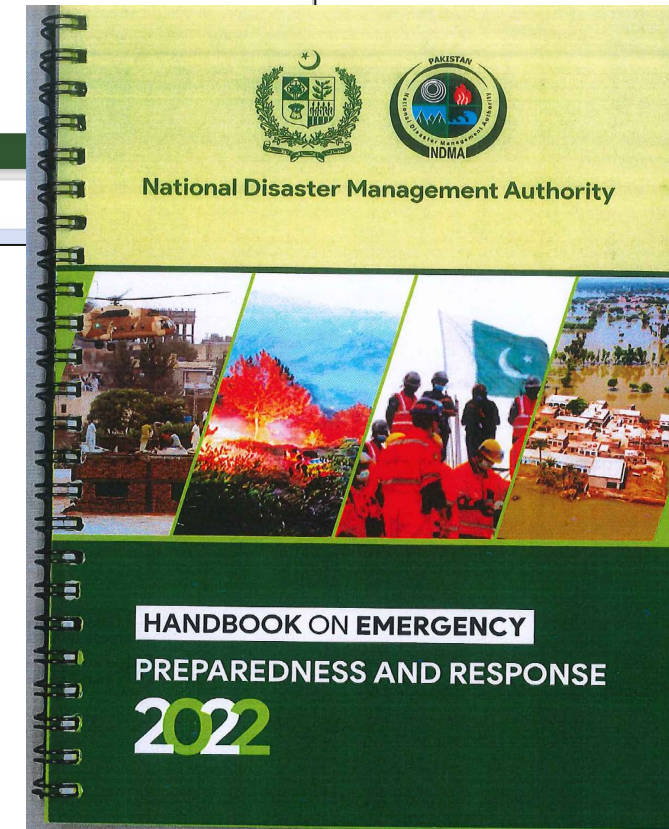
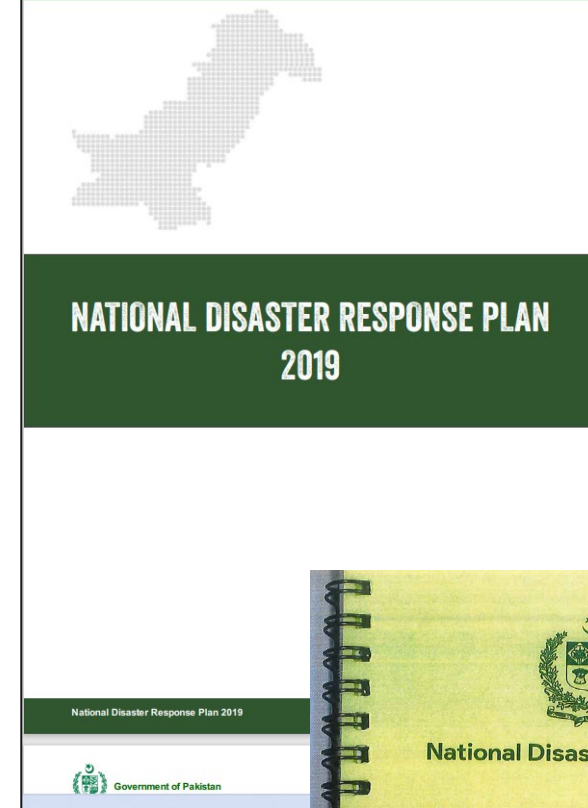
Response Planning



Evacuation Planning

Disaster Response Policies

1. National Disaster Management Act 2010
2. National Disaster Management Plan 2012
3. National Disaster Response Plan 2010
4. **National Disaster Response Plan 2019**
5. **Handbook on Emergency, Preparedness and Response 2022**



National Disaster Response Plan 2019

- The key documents outlining the guidelines to respond to disasters/emergencies in Pakistan, this plan mentions evacuation planning in section 4

National Disaster Response Plan 2019

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Section 4.1; Evacuation, Rescue and First Aid

Evacuation of people to safer place is the responsibility of District Administration. Some important steps involved in emergency evacuation are as following:-

- a. **Evacuation Plan.** Plans must be prepared beforehand, some of the salient features of the Plan are:-
 - (1) Identify safe places and routes in respective areas.
 - (2) Formulate Transport Plan for evacuation.
 - (3) Assign roles & responsibilities to government departments/ officials or designated staff.
 - (4) Integrate Evacuation Teams from Government officials (from different departments), Armed Forces and volunteers.
 - (5) Recognition of potential threat.
 - (6) Develop communication mechanisms for information sharing with communities and volunteers.

Section 4.1; Cont.....

- (7) Train and equip Evacuation Team for emergency evacuation of disabled persons.

b. Execution. Following will ensure effectiveness of the Evacuation Plans:-

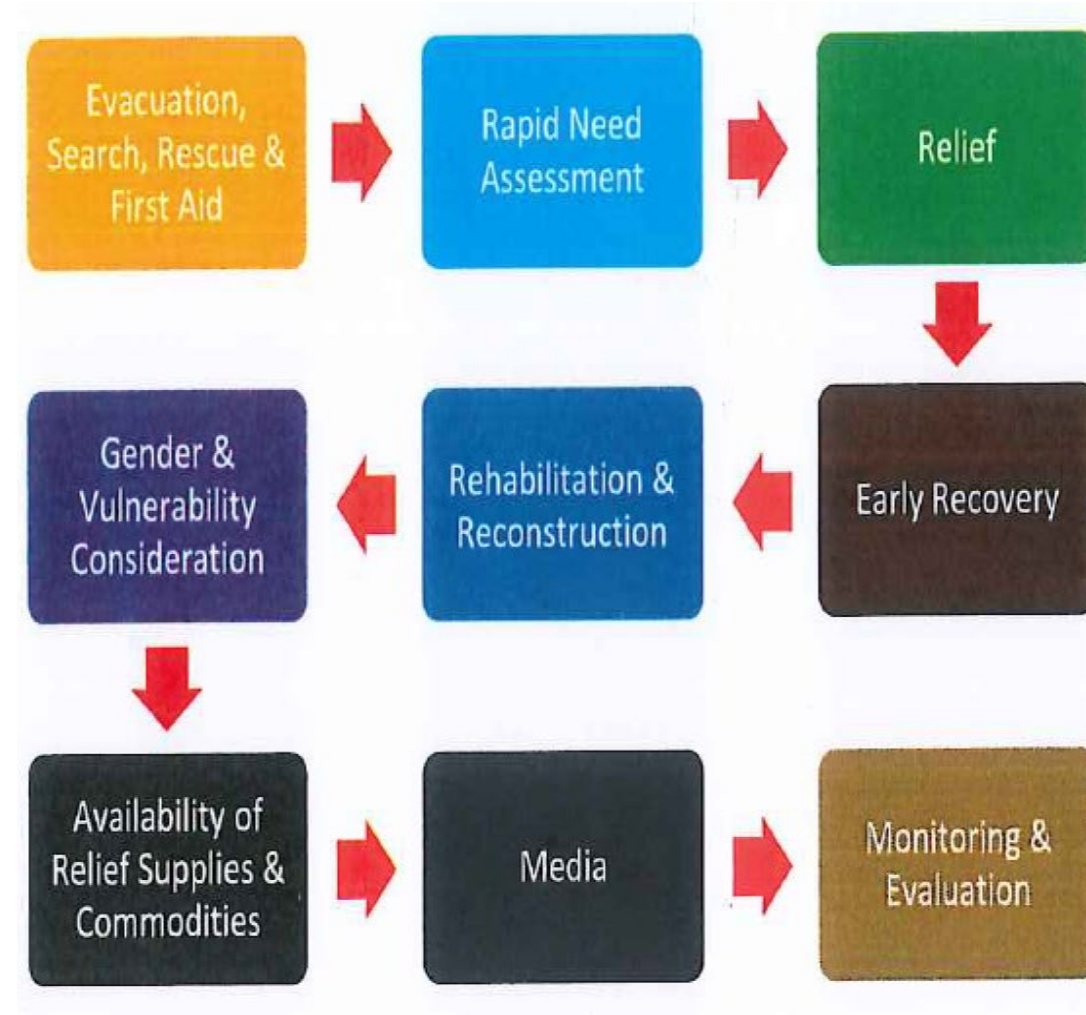
- (1) Prior arrangements for shelters at earmarked evacuees' lodgment sites.
- (2) Provision of basic facilities (Water & Sanitation etc) in camps.
- (3) Adequate arrangements for transportation of the affected communities and their minimum belongings, including livestock.
- (4) Priority of evacuation be allocated to Elderly, Pregnant Women and Disabled persons.
- (5) Fool proof security arrangements for during evacuation and in the Camps.
- (6) Separate camps for the Cattle.

Handbook of Emergency Response & Preparedness 2022- NDMA

Disaster Response Mechanism in Pakistan

Bottom up approach is followed in Disaster Response activities for localized emergency/ disaster events

- LDMO/ DDMA to declare emergency
- Set up Emergency operation center
- Inform/ update Provincial DMO
- Take necessary actions



Disaster Response Policy at sub national level

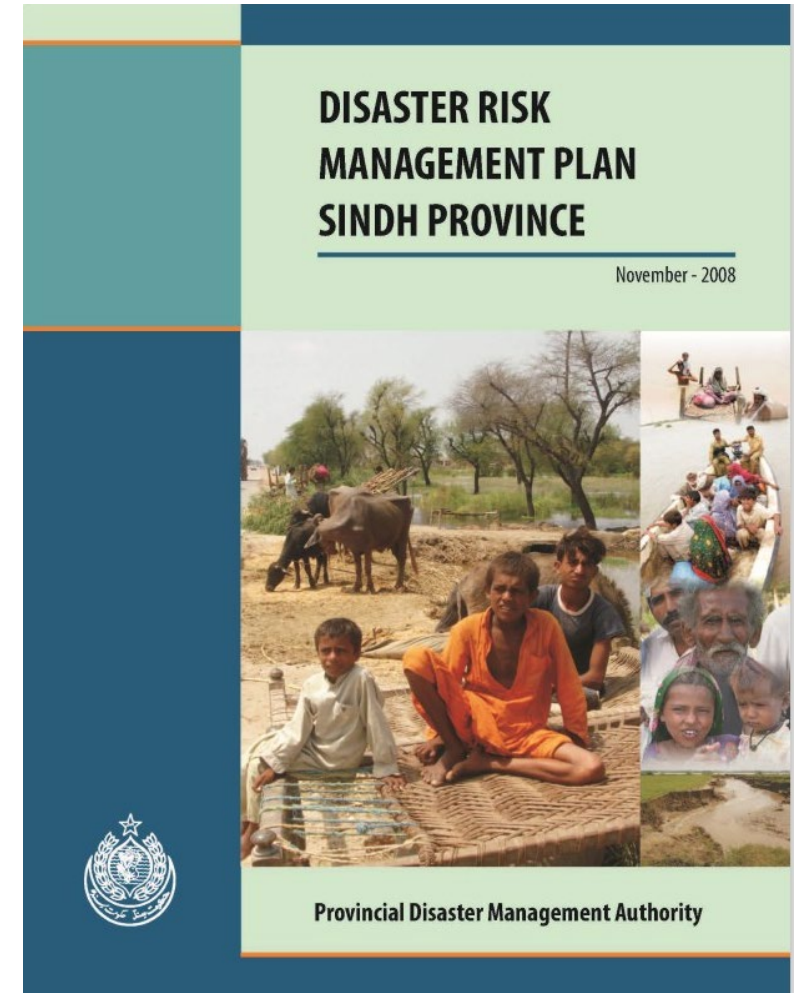
- Provincial Disaster Management Plan 2008
- District Disaster Management Plan 2008

Disaster Risk Management Plan
District Gwadar
Government of Balochistan

November, 2008



District Disaster Management Authority Gwadar
Telephone: 0864-210027 Fax: 0864-211362



District Disaster Management Plan - Gwadar

Section 4; Priority Areas for DRR and Response in Gwadar

4.1.1 Priority Areas 1: Institutional and Legal Arrangement

4.1.2 Priority Areas 2: Hazards and Vulnerability Assessment

4.1.3 Priority Areas 3: Training, Education and Awareness

4.1.4 Priority Areas 4: Community and Local Risk Reduction Programming

4.1.5 Priority Areas 5: Multi-hazard Early Warning System

4.1.6 Priority Areas 6: Mainstreaming DRR into Development

Section 5: Roles and Responsibilities of key stakeholders

Tsunami Evacuation Infrastructure- Gwadar, District Malir and District West Karachi

- Risk assessment of Coastal belt
- Mass notification System (Sirens)
- Identified safe sites and routes
- Few schools and health facilities strengthened and identified for evacuation
- School Safety Guidelines
- Training and Drills organized (at limited scale)

Not yet incorporated in Tsunami Evacuation Plan or DDMA SOPs



Syed Ismaeel Shah
Student studying in
Gwadr learnt about
tsunami preparedness in
his school



Malnaz Abdul Hussain
student of 10th Grade
Studied about
tsunami preparedness
in grade 6

Tsunami Evacuation Warning- All DMOs

- NTC/ PMD is mandated to issue Earthquake and Tsunami information, warning, advice for evacuation according to SOPs 2010 to DDMA

Tsunami Evacuation Plan

- No specific plan exists

DDMP Gwadar Cont.....

Section 6: SOPs

6.1 DDMA

6.2 District Emergency Operation Center (DEOC)

6.3 Mechanism of Warning

6.4 Warning and Plan Information Distribution

6.5 Public Information

6.6 Reporting

6.7 Requests for Assistance

6.8 Plan Dissemination through Community Education

6.9 Community Involvement and Participation

6.10 Organizing the Drills

DDMP Gwadar –SOPs Cont.....

Section 6.3: Mechanism of Warning

Department such as meteorology, agriculture & irrigation, health and environment would establish and upgrade early warning system and pass on warnings of a disasters occurrence directly to media and to the head of DDMA who will direct the most needed department (as per nature of disaster) to take immediate steps. Side by side DDMA incharge will call emergency meeting of all the members of DDMA. Following are some of the actions to be taken

- As per nature of disaster nomination of **lead agency**
- Analysis of the disaster and the level of **response to be taken**
- Accumulation and disposal of required **resources**

DDMP Gwadar – Section 6: SOPs Cont.....

6.4: Warning & Plan Information Distribution

DDMA will ensure the implementation of this plan and all public warnings will be distributed through the secretariat upon recommendation of the Head of the authority. Appropriate media channels will be used to distribute the warning to the general public and concerned authorities for appropriate standby preparedness and response measures.