



5th MEGA MOCK EXERCISE ON EARTHQUAKE

11th July, 2019

Government of Himachal Pradesh

Department of Revenue

Disaster Management Cell

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MINUTES OF THE COORDINATION CUM ORIENTATION CONFERENCE HELD IN CONNECTION WITH THE 5TH MEGA MOCK EXERCISE ON EARTHQUAKE

**Held on 3rd July 2019 at 11 a.m. at Armsdale Conference Hall-H.P Secretariat, Shimla
Under the Chairmanship of Sh. B.K. Agarwal, Chief Secretary to the Government of
Himachal Pradesh**

In the run-up to the state level mock exercise on earthquake preparedness to be held in the state on 11th July, 2019, a coordination and orientation conference was organized at the Armsdale Building Conference Hall, Himachal Pradesh Secretariat, Shimla on 3rd July, 2019 at 11:00 am. The meeting was held under the Chairmanship of Sh. B.K. Agarwal, the Chief Secretary to the Government of Himachal Pradesh, and was presided by the Principal Secretary (Revenue) to the Government of Himachal Pradesh Sh. Onkar Sharma. Maj. Gen. (Dr.) V. K. Naik (Retd.) Senior Consultant, (National Disaster Response Force [NDRF]), National Disaster Management Authority (NDMA) was also present for this meeting. The list of Participants is placed at Annexure A-I.

2. Sh. D.C. Rana, Director-cum-Special Secretary (Revenue -DM) to the Government of Himachal Pradesh welcomed the Chief Secretary, the Principal Secretary (Rev), Maj. Gen. (Dr.) V. K. Naik, the Deputy Commissioners, the representatives from the Indian Army, Air Force, ITBP, Police, Home Guards & Fire Services and officers from various stakeholder departments. He also thanked NDMA for providing financial and technical support to plan and organize the proposed mock exercise. In his address, Sh. D.C. Rana highlighted the need to create a culture of preparedness and the significance of conducting this state-level mega mock exercise. The basic objective of the exercise is to test the adequacy of plans and preparations of the State and districts. He also mentioned that for the present exercise the aim is to reach upto sub-district level, and to assess the efficacy of response plans at that level.

3. With the aid of a Power Point Presentation, he described the earthquake vulnerability of the state, and enumerated the details about conducting the Table-Top and Mock Exercise on 10.07.2019 and 11.07.2019 respectively. There were discussions on the powers vested with the District Administration under Section 30 of the Disaster Management Act, (2005). Deliberations were also done on the potential application of HAM Radios in case of emergencies. While concluding the presentation, Sh. D.C. Rana urged the participants to download the Incident Response System (IRS) App developed by the State Disaster Management Authority (SDMA) of Uttarakhand. The content of the App will aid in familiarizing the stakeholders with the roles and responsibilities of various departments/responsible officers and the reporting formats of IRS. The copy of the Power Point Presentation delivered by Sh. D.C. Rana is at Annexure B-I.

4. Maj. Gen. (Dr.) V.K. Naik(Retd.), Senior Specialist, NDRF applauded the initiatives of the State in the field of disaster management. He mentioned that the State officials have made commendable

efforts in raising awareness and building capacities of stakeholders at various levels. He talked about the 'Worst Case Scenarios' and how each line department should plan for such critical situations, well in advance. He stated that ad-hoc measures and response will not be effective and preparedness and pre-planning is need of the hour. There were discussions that planning should cater to all phases of the DM cycle, starting from response, recovery to long term mitigation and overall preparedness. Thereafter he gave a presentation on the Incident Response System (IRS) mechanism, talking briefly about its genesis and evolution. In his address he mentioned that areas most vulnerable to disasters should be identified, and Incident Command Post should be set upto sub-district level. He concluded his presentation by reiterating, that the exercise is aimed at providing practical learning and all concerned officials must make the most of it. The Power Point Presentations delivered by Maj. Gen. (Retd.) Dr. Naik is placed at Annexure B-II and B-III.

5. In the meeting, the Deputy Commissioner's were also requested to share their suggestions for the mock exercise, based on their previous experiences. Concerns were brought forth by the DC Mandi about timely intimation about the 'situation' on the day of the mock exercise, and about the setup of staging area. There was feedback on the chain of command, with respect to IRTs at state and district levels, in actual cases of emergencies.

6. Thereafter, the Principal Secretary (Revenue) to the Government of Himachal Pradesh Sh. Onkar Chand Sharma gave his remarks; where he highlighted the need to enhance capacities of administrative officials upto *panchayat pradhan* level on various aspects of DM. He also shared the DM system of railways and his experiences in handling Kinnaur floods. He stressed the importance of having periodic meetings of the SDMA and DDMA's, which will enhance coordination amongst various stakeholders. Further, he also stated that the different scenarios pertaining to mock drill will be created by SDMA, and passed on to the DDMA's. In conclusion, he thanked the officials from various departments for their presence and encouraged them to participate actively in this mock exercise.

7. The worthy Chief Secretary, Sh. B. K. Agarwal in his concluding remarks gave some pertinent suggestions, which have been enlisted as follows:

- a. The state of Himachal Pradesh needs to work harder to establish a culture of safety and preparedness. To ensure this, it should be mandatory for the SDMA and DDMA's to hold quarterly meetings, where issues/concerns may be discussed and systematically recorded in the proceedings. The proceedings of the meetings should be shared with the relevant stakeholders.
- b. The line departments were directed to review and update their DM plans regularly, and hold review meetings with the SDMA regularly, and incorporate their feedback wherever suggested.
- c. The DCs may take on active leadership in their respective districts, to plan and manage various aspects of Disaster Management. The CS directed the SDMA to provide intellectual/technical support to the DDMA's.

- d. The SDMA was advised to create a ready-reckoner/reference book with all the essential information/notifications about disaster management, which is available for reference upto block level. This booklet can have a designated name, and can be developed on the lines of a 'Blue-Book'.
 - e. The use of private service providers and resources (like telecom companies, BPO sectors and adventure sports personnel) must also be mobilized in case of disasters and emergencies. Formal directions must be issued in this direction, and the SDMA should take necessary steps to formalize this database; so that their services may be taken in emergency for handling help-lines.
 - f. The I-SAT and V-SAT phones should also be installed in remote and vulnerable locations of the state, to ensure that there is some means of communication in times of distress/emergencies.
 - g. The SDMA should invest sufficiently in creation of infrastructure (like multi-purpose shelters/sanitation facilities) and assets that will enhance the response capacity of the state. This should reflect in the DM plan of the state. It was also stressed that adequate quantities of prefabricated/inflatable shelters may be stored at district level.
 - h. SDMA in association with Police Department may develop the HAM radio network in the State, upto block level atleast. The HAM radio examination may be incentivized by SDMA for volunteers, so that the network is strong and beneficial. This would add a layer of emergency communication in response mechanism. On successful completion of the HAM radio course and passing the stipulated exam, a certificate of completion and honorarium should be paid to the qualifying individual. State may consider subsidizing the cost of equipment to volunteers who successfully pass the exams, and are willing to support the DDMA's and SDMA. A policy in this regard may be developed. Aim should be to have HAM Radios, at least one in each block.
 - i. The Divisional Commissioners –Kangra, Mandi and Shimla may be appointed as Nodal Officers for handling the relief at Airports and may be notified members of state IRT accordingly. It was also decided to revise State level IRT and notify district and sub-divisional level IRTs from the state.
8. The meeting concluded with a vote of thanks, and with the hope that this mock exercise will help the participating agencies and all the stakeholders in evaluating the effectiveness of their District Disaster Management Plans, test coordination mechanism, check the working of Incident Response Teams within the Districts & State level and to improve preparedness and response mechanisms for various disaster situations in future. It was specifically emphasized that safety aspects may be given utmost importance during the mock exercise.

Glimpses of the Orientation cum Coordination Conference



THE TABLE TOP EXERCISE

10 JULY 2019, VC ROOM-H.P. SECRETARIAT, SHIMLA

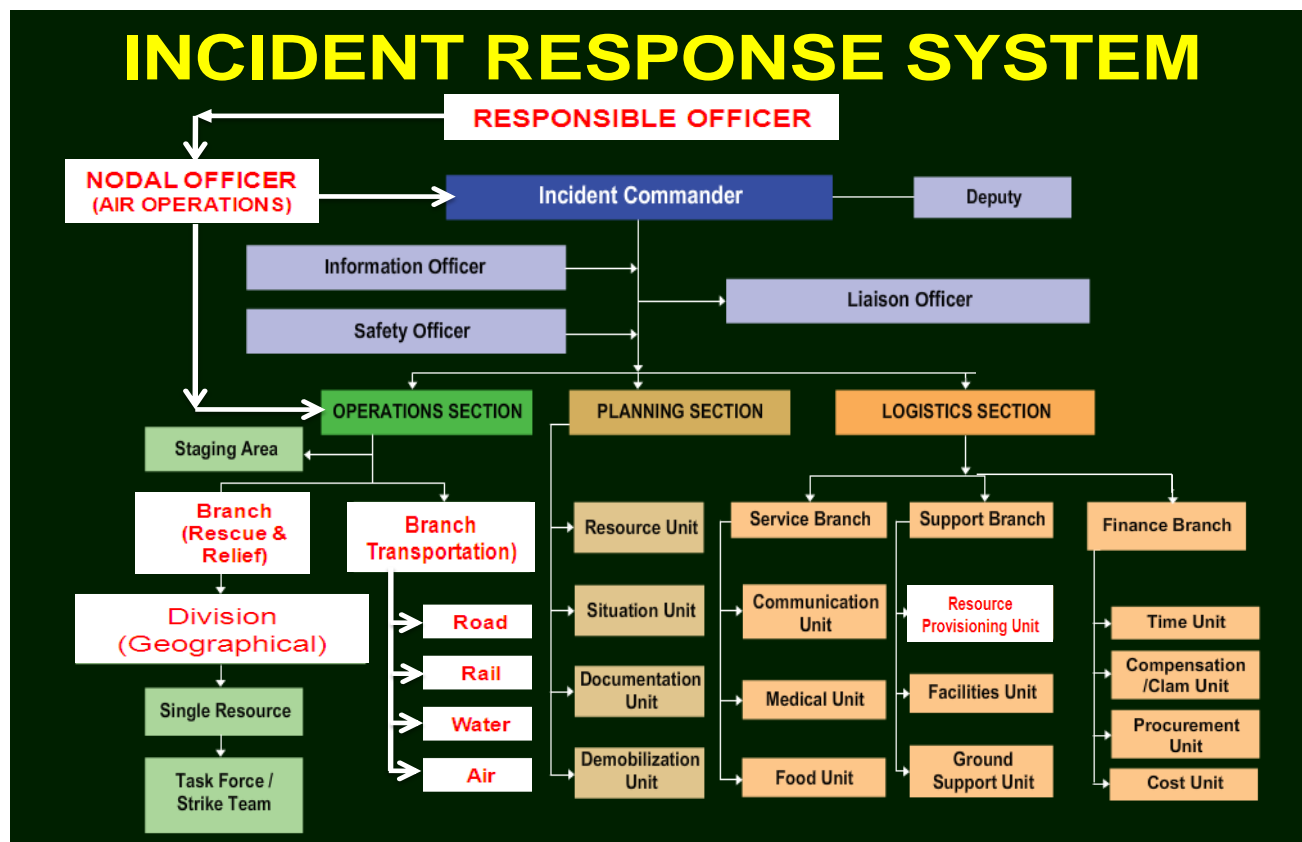
9. Following the Orientation and Coordination conference held on 3rd July, 2019 in the run-up to the State-level mock exercise on earthquake preparedness held in the State on 11th July, 2019, a Table Top Exercise was organized on the 10th July, 2019 under the chairmanship of worthy Principal Secretary (Revenue) to the Government of Himachal Pradesh (HP). The meeting was conducted through Video Conferencing (VC) with all the 12 districts and their respective Incident Response Teams. This exercise witnessed massive participation of 458 personnel, with 65 participants at State level and 393 participants from the 12 districts. The list of participants at the State level is at Annexure A-II .

10. At the outset, Sh. D.C Rana, Director-cum-Special Secretary (Rev.-DM) welcomed the Principal Secretary (Revenue) Sh. Onkar Chand Sharma, Maj. Gen. Dr. V. K Naik (Retd.) Consultant (NDRF)-NDMA, all the officers of the Armed Forces, The Deputy Commissioners (DCs) present for video conference and all the state/district level officers from various departments of the HP government. Sh. D.C Rana gave a prelude to this table top exercise, where he briefly described the sequencing and modalities of various disaster situations and scenarios developed at State level, which will be presented to the District administration/line departments. The DCs/line departments were expected to stimulate actions and generate appropriate response. Sh. D.C. Rana, also elucidated the **objectives of this mock exercise**, which are as follows:

- i. To test the response plans of districts and departments both at the State and District Level
- ii. To review Disaster Management Plans of the State/District.
- iii. To incorporate IRS for emergency response in case of any disaster at State/District level.
- iv. To highlight the roles and responsibilities of various stakeholders involved in managing disasters as per IRS.
- v. To enhance coordination and synergize efforts of various Emergency Support Functions at the District/State Level.
- vi. To find gaps, if any in the resources, manpower, equipment, communications and systems.

11. Thereafter a scenario was presented, (a hypothetical case worked out by the NDMA in consultation with IIT-Mumbai and IIT-Chennai) that an Earthquake of magnitude 8 on the Richter Scale, with its epicenter at Sundernagar, Mandi has occurred. It was envisaged as a night time event. As per the estimates calculated by the State keeping in mind the population statics of 2011 Census (total population: 68, 56,609); the projected loss of life and injuries, expressed as a percent to the total population was 2.3% and 16% respectively. District wise damages and loss of lives and injuries were also projected, and the extent of damage anticipated in urban areas/towns was also shared with participants. Sh. D. C. Rana urged the state and district level stakeholders to plan their response and actions keeping in mind the magnitude and severity of damages that might occur in case of such mega disaster.

12. Maj. Gen. Dr. V. K Naik, congratulated the State Government for taking concrete steps for disaster preparedness and response planning. The need of the hour now, is to have an efficient Incident Response System in place at district/sub-district levels. He requested the district administration to test the efficacy of line departments responsible for various emergency support functions, and keep a note on the gaps in response. He briefly discussed IRS, succinctly highlighting the roles of the Operations, Planning and Logistics Section, as depicted in the Figure given below.



13. Thereafter the scenarios developed at State level were presented (Annexure B-IV), and the **overall situation** was that the earthquake has occurred at midnight, strong tremors have been experienced in the entire North Western belt of India, and heavy rainfall is occurring and is likely to continue over next 72 hours. Maj. Gen. Dr. V. K. Naik stated that we are grossly underprepared and under resourced for handling such a situation, and it will be intellectual dishonesty to not own up this reality. The scenarios/situations presented soon after have been presented in the following Table 1-A, B, C & D.

TABLE 1-A	
SITUATION 2	COMMUNICATION NETWORKS/PHONE LINES/ROADS: SEVERELY DAMAGED
Response: District Administration/Line Dpts	Key Action Points/ Recommendation from the Panel
District Shimla: -Activate communication through radio set -Communicate with blood banks -List of donors based on the categories of blood groups have been prepared District Kangra: -Delocalize district resources to sites most affected	-Regularly conduct meetings with the IRTs , to ensure effective communication and coordination -Application of HAM radios in emergency situations
SITUATION 3	COLLAPSED STRUCTURE SEARCH & RESCUE (SAR)
Response: District Administration/Line Dpts	Key Action Points/ Recommendation from the Panel
District Solan: - Representatives from Home Guard and Fire Services will be engaged - The Dpt. of Home Guard and Fire Services enlisted the equipment available with them	-There are gaps in the capacities of personnel -Specialized training for collapsed structure SAR is urgently required - Need to generate list of equipment required/ and which Deptts/personnel will handle it - Stocktaking of Victim Search Cameras (Provided to the Dpt. of Home Guards)
SITUATION 4	MEDICAL RESPONSE
Response: District Administration/Line Dpts	Key Action Points/ Recommendation from the Panel
District Mandi - Detailed out the response teams designated to deal mass casualties, demarcating areas for triage and handling the dead bodies District Chamba - Highlighted inadequacies of ambulance services District Hamirpur - Shared plans for deploying the ambulances-block wise - Planned to rope in the private college, nursing colleges in emergencies - Psychiatrist and psychologists of the District Hospital will provide psychosocial care to survivors	- The use of all resources, manpower and institutions should be in actual physical plan of the districts/departments - All districts must refer to the following NDMA Guidelines on <ul style="list-style-type: none"> • Hospital Safety & Psychosocial Care • Management of the Dead • Management of the Chemical (Terrorism) Disaster • Management of Radiological and Nuclear Emergencies • Management of Biological Disasters - IDRN portal should be updated regularly -Resources/equipment of NHA must be utilized; and this should reflect in actual physical plans

TABLE 1-B	
SITUATION 5	MANAGEMENT OF AIRPORT/HELIBASES
Response: District Administration/Line Dpts	Key Action Points /Recommendation from the Panel
<p>District Kangra - Enlisted the details of helipads, and plans about management of relief supplies, management of crowd and warehousing of supplies</p> <p>District Mandi -It was suggested that the Divisional Commissioner Should be responsible for overall coordination, and not just be the Nodal Officer for handling air-operations</p> <p>District Shimla -Shared list of helipads, nature of aircrafts that can land and the liaison with Army/Air Force</p>	<ul style="list-style-type: none"> - Ensuring orderly behavior of common people especially at the times of landing and take-off - Arranging for quick upload/download of resources manpower and casualties - Ascertain adequate ATF is stocked and appropriately maintained -Considering the appointment of Divisional Commissioners as overall-incharge and not just Nodal Officers for air operations
SITUATION 6	SETTING UP RELIEF CAMPS
Response: District Administration/Line Dpts	Key Action Points /Recommendation from the Panel
<p>District Sirmaur and Bilaspur - Shared plans of establishing relief camps at sub-divisional level, sharing details of specific sites</p> <p>District Una -Detailed out their plan for converting the their CHCs/ PHCs at block level into relief camps, and Senior Secondary Schools at cluster level into relief camps</p>	<ul style="list-style-type: none"> - The sites selected for relief camps should be well documented in the DDMPs -DDMAs are responsible for identifying buildings/ sites which can be used as designated spaces for setting up relief camps -DDMAs need to cater for the diverse needs of community for setting up relief camps - Districts must familiarize themselves with the provisions of the DM Act (2005); especially Section -12 (Guidelines for Minimum Standards of Relief) and Section-30 (Powers and Functions of District Authority)
SITUATION 7	DEPLOYMENT OF NDRF & OTHER TEAMS
Response: NDRF,ITBP, Army	Key Action Points /Recommendation from the Panel
<p>NDRF - The NDRF informed that they can spare around six teams to handle the situation post-disaster (in case of a mega- disaster) - The NDRF specializes in SAR operations and has machines like JCBs, Earth Movers, Tractors, Bull Dozers</p>	<ul style="list-style-type: none"> -DDMAs may put up their communication / coordination protocols for the NDRF and Other Forces in actual plans

TABLE 1-C	
SITUATION 7- Contd.	DEPLOYMENT OF NDRF & OTHER TEAMS
Response: NDRF, ITBP, Army	Key Action Points /Recommendation from the Panel
ITBP - Informed about the three Regional Response Centres (RRCs) of ITBP in the state, which can handle close to 500 casualties. The force is well-equipped to handle Disaster/emergency situations, and has a company of professionals who have previously served in NDRF. Army - The Army discussed its deployment plan. In any eventuality, an Army unit can spare 120 men/3 columns (of 40 men each). The Task Force in each column has ten individuals each, who specialize in rescue, anchor, search and medical first aid	- Formal/Informal liaison may be established between civil administration and armed forces like Army and ITBP
SITUATION 8& 9	LAW & ORDER ISSUES/ INVOLVEMENT OF NGOs AND VOLUNTEERS
Response: District Administration/Line Dpts	Key Action Points /Recommendation from the Panel
Districts Shimla, Mandi, Chamba, Hamirpur & Solan - Plans entailed activation of QRTs - Deployment of women police personnel - Involvement of NGOs, volunteers	- Districts were directed to constitute Inter- Agency Groups (IAGs) with NGOs which can be mobilized in emergency situations
SITUATION 10	DAMAGE ASSESSMENT AND RELIEF PLAN
Response: Principal Scientific Officer, HIMCOSTE	Key Action Points /Recommendation from the Panel
- The role of remote sensing was highlighted - Satellite imagery can help in ascertaining the extent of loss and damages. - Drones can also be used, along with air reconnaissance	- Latest technology should be harnessed in this front - The EOCs should be equipped with state of the art technology
SITUATION 11	RESTORATION OF ESSENTIAL SERVICES
Response: District Administration/Line Dpts.	Key Action Points /Recommendation from the Panel
Districts Kangra and Mandi - Shared locations where they would preposition Bailey Bridges, the status of transport vehicles - There will be zonal planning to ensure that resources are distributed appropriately	- Refer to the provisions stated under Section 50 of the DM Act (2005) on Emergency Procurement and Accounting) - Emphasis was laid on pre-contracting for things required for districts - There is need for districts to keep good stock of Items needed in districts.

TABLE 1-D		
SITUATION 12	RESTORATION OF TELECOMMUNICATION SERVICES	
Response: District Administration/Line Dpts.	Key Action Points /Recommendation from the Panel	
Districts Kinnaur and Lahaul and Spiti -District Lahaul & Spiti informed that the connectivity of Airtel is slightly better than BSNL - Reported issues of pilferage - Considering the prepositioning of mobile BTS Towers	- The Department of Telecommunication/BSNL should lay out their resources in actual physical plans - The use of HAM Radios should be encouraged, atleast in each block - Mobile BTS may be pre-positioned in the districts	
SITUATION 13	RESTORATION OF WATER SUPPLY	
Response: District Administration/Line Dpts	Key Action Points /Recommendation from the Panel	
District Shimla - Shared plans to provide packaged drinking water to the Citizens - Establishing liaison with mineral water companies	- Plans need to strengthen, catering to various contingencies	
SITUATION 14	INDUSTRIAL HAZARDS	
Response: Response: District Administration/Line Dpts	Key Action Points /Recommendation from the Panel	
Districts Solan, Una, Sirmaur - District Solan enlisted the hazardous industries, within its Jurisdiction -Shared the on-site and off-site plans prepared for the Industrial areas	-Districts were directed to prepare Industrial DMPs, With the technical inputs from the Inspector of Factories.	

14. Summing up the conference, Sh. D. C. Rana highlighted that this mock exercise is needed to update and revise the State, District and Departmental DMPs, to cater to the situations of mega-disasters and mass level emergencies. Also there is an urgent need to implement the Guidelines issued by NDMA and the roles assigned to IRTs and Departments handling ESFs. It is imperative to conduct such exercises regularly to improve coordination and response time to minimize the loss and damage to life and property. The Principal Secretary (Revenue) thanked all the participants, and reiterated that this mock exercise must be carried out with utmost care and safety.

15. Principal Secretary (Rev.) Sh. Onkar Chand Sharma emphasized the need to firm up response plans of all Departments at the district level. This will reduce adhoc responses from various Departments. He also stressed upon the need to organize department specific mock drills by the DDMA's on regular intervals. Involvement of all stakeholders in such exercises will improve coordination and response in real situations.

Glimpses of the Table-Top Exercise



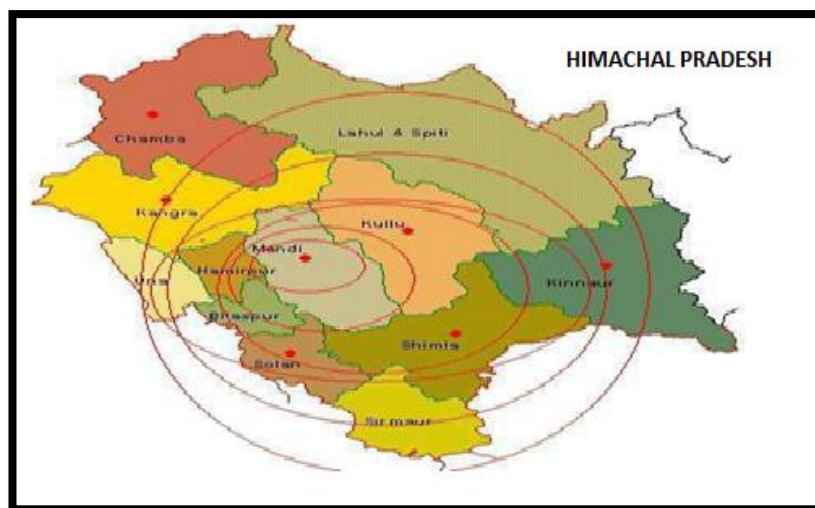
5TH STATE LEVEL MEGA MOCK EXERCISE ON EARTHQUAKE

HELD ON 11TH JULY 2019

A mega mock exercise on earthquake covering all the 12 districts of Himachal Pradesh was triggered at 8:30 A.M. on 11th July, 2019. The list of participants at state head quarters is placed at Annexure A-III.

16. **Preparatory Actions:** Before the conduct of the exercise many actions were taken by the Disaster Management Cell, Department of Revenue, such as wide publicity through both electronic and print media. Advertisements were published in the leading newspapers in the State; jingles were also run through All India Radio and FM channels. Copy of the advertisement which was published in the newspapers is at Annexure-C. In addition to the Orientation and Coordination Conference, a meeting with Observers was organized on 9th July at Shimla and a Table Top Exercise was also conducted to set the stage for action and mobilize manpower/resources for the mega mock exercise. A WhatsApp group was also created with all the members of the State IRT, Observers and the staff of HP-SDMA.

17. **The Hypothetical Earthquake:** The Indian Meteorological Department reported the occurrence of hypothetical Earthquake of magnitude 8 on the Richter Scale, with its epicenter at Sunder Nagar Subdivision, Mandi District. The State Emergency Operations Center (SEOC) was activated immediately and State Incident Response Team members were informed about the earthquake. Simultaneously, all the District EOCs were contacted and the report of the damage and loss were sought by the SEOC both through wireless sets and landlines. Copy of the earthquake bulletin issued by India Meteorological Department for the hypothetical earthquake is at Annexure-D.



18. **The Exercise:** The Mock Exercise was conducted at **54 locations** in the Himachal Pradesh

on 11th July, 2019 from 8:30 A.M. onwards. Three to six sites were selected in various districts. List of the sites where mock exercise was triggered by the SEOC is at Annexure E.

19. **The Evacuation Drill at H.P. Secretariat:** Evacuation Drill was conducted at the State Secretariat. Shri Manoj Tomar, Additional Secretary, GAD, supervised the drill and conducted it in an orderly manner. The fire tender reached within 10 minutes and the medical care team was available on the site (The Report of the State Chief Observer).

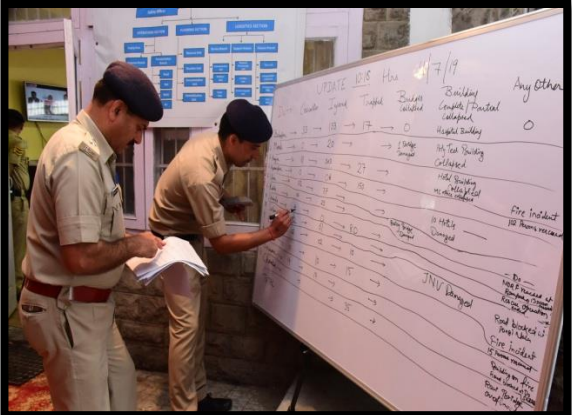
20. **The Communication Network:** Network for communications such as landline, mobile etc. were shown down and reports of damage & loss were received through Police wireless networks. The reports were tabulated in Wireless Section on hourly basis and thereafter shared with Logistic and Planning Sections. The district-wise reports were also compiled at State EOC compilation section. Satellite phones were also used during this exercise. A copy of communication networks used is at Annexure F.

21. **Establishment of Sections of IRS:** Different sections of the Incident Response System were established; such as Planning Section, Operations Section & Logistics Section. The IRT members/representatives as per the State notified IRT were deployed in their respective sections for the coordination with the districts for assessment of damage and loss reports and effective response. The copies of IRS Training Module were placed in the SEOC. At the State HQ, Chief Observers were deputed from ITBP, NDRF and Army. A total of 31 Observers (27 general and 4 medical) from Army, NDRF, ITBP, SSB, Air Force, BRO, NDMA CISF were also deployed in the state HQ and districts. The list of Observers is placed at Annexure G and the Reporting Format for Observer's is at Annexure H.

22. **Activation of the DEOCs:** Once the DEOCs were activated the DCs & District IRT established the respective Command posts, Staging area, Relief Camps, etc. Resources like Ambulances, Mini trucks, Mini buses were deployed at the staging area as per requirement and availability of resources in the district for the response. The local police, fire services, home guards and the armed forces and other authorities started search and rescue operations. At State level, the Emergency Operation Centre (EOC) established in Secretariat equipped with communication system like Wireless system, VSAT, I SAT, fixed line phones and WLL phones, computers and laptops started functioning with all IRTs.

23. **Compilation of Damage & Loss Report:** The report of loss as received from the field was 483 Deaths, 3050 injured persons, 853 persons trapped, 8 bridges collapsed and 132 buildings collapsed (Copies of loss/damage compiled on hourly basis is at Annexure I). The Mock exercise was called off at 12 Noon.

IMAGES OF MOCK EXERCISE FROM STATE HEAD QUARTERS



PARTICIPATION OF DISTRICTS IN THE MEGA MOCK EXERCISE: A FEW GLIMPSES

1. Bilaspur



2. Chamba



3. Hamirpur



4. Kangra



5. Kinnaur



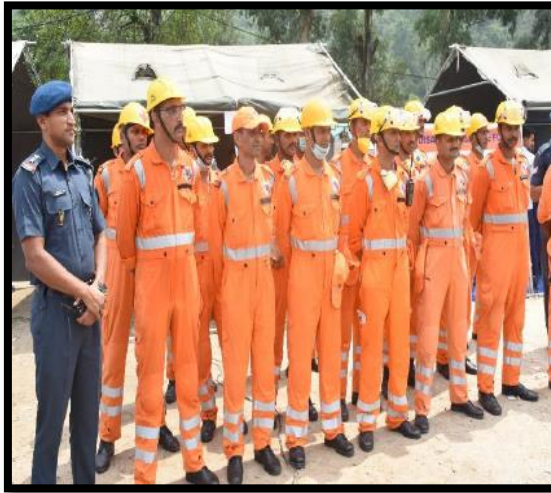
6. Kullu



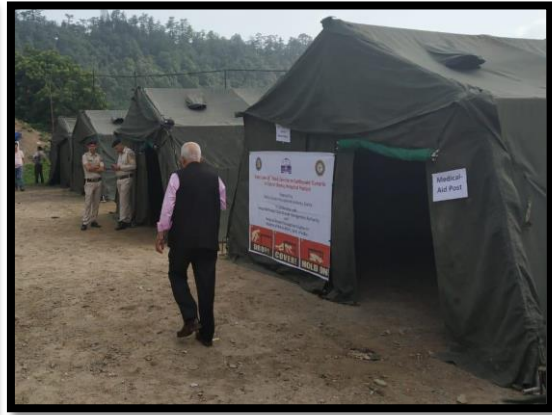
7. Lahaul & Spiti



8. Mandi



9. Shimla



10. Sirmaur



11. Solan



12. Una



The print media coverage of this event, showcasing activities at state, district and sub-divisional levels is at Annexure-J.

THE DEBRIEFING EXERCISE ORGANIZED AFTER THE CONDUCT OF 5thMEGA MOCK EXERCISE ON EARTHQUAKE

11 JULY 2019, VC ROOM-H.P. SECRETARIAT, SHIMLA

24. A debriefing session was held through Video Conference (VC) with all the 12 districts and the State IRT members at 2.30 pm; under the Chairmanship of Principal Secretary (Revenue) to the Government of Himachal Pradesh. The session commenced with the Director-cum-Special Secretary (Rev.-DM) Sh. D.C Rana welcoming the Principal Secretary, Sh. Onkar Chand Sharma, Maj. Gen. Dr. V. K Naik (Retd.), Consultant-(NDRF), NDMA, all the Deputy Commissioners, Officers of the Armed Forces, and various officials of the State Government. The list of participants who attended the session at state level is attached as Annexure A-IV.

25. The Director-cum-Special Secretary (Rev.-DM) described the Mega Mock exercise in numbers (Annexure-K). There were a total of 31 Observers (27 General and 4 medical), deployed at State HQ and districts from the ITBP, Army, NDRF, SSB, Air Force, BRO, CISF and NDMA. The number of incident sites given by the State was 54, and the sites covered by districts were 112. As part of the communication network, wireless sets (836), communication vans (3) and I-SAT phones (62) were deployed. Around 1047 personnel from the Central Forces (NDRF, ITBP, Army and BRO) participated in this exercise; while the participation of State Home Guards was recorded at 523. IEC material was distributed in various districts, adding up to 7330. A total of 839 volunteers, and 32 NGOs from different districts were involved in this exercise.

26. The key challenges at the State level were briefly spelt out by the Director-cum-Special Secretary (Rev.-DM); which included the struggle in making the State IRT available and ensuring representation of officials from the key departments (like PWD, Electricity, IPH). Moving on, the Principal Secretary (Revenue) asked the DCs to **provide a brief narrative about the conduct of mock drill** in their respective districts, with a **focus on lessons learnt and recommendations**.

Glimpses of the Debriefing Exercise



The districts commenced with their observations and suggestions in the following order:

1. Mandi

27. A. Key observations and suggestions of district administration:

- a) It was informed that all the members of the IRT reached the staging area in about 30 minutes, based on the premise that EOC will not be able to survive an earthquake of this magnitude.
- b) District administration faced difficulty in establishing contact with officials at YolCantonment, however they were able to establish contact with the NDRF.
- c) There is a need to have a SOP on canal breaches with Bhakra Beas Management Board (BBMB). The district found handling canal breach a difficult task for which they appeared to be ill prepared.
- d) The use of drones/victim locator cameras was recommended by the district administration.
- e) The district was able to mobilize only a few volunteers (35:General and 31: *Aapda Mitra*)

28. B. Recommendation from the Panel:

- a) There is a need to maintain a database of trained volunteers. Some of the *Aapda Mitra* volunteers are experts in water rescue, and their support can be crucial in cases of canal breach.
- b) Standard protocol must be kept in mind whenever assistance is required from the Army/Air-Force.
- c) Greater public participation must be ensured.

2. Shimla

29. A. Key observations and suggestions from district administration:

- a) District authority informed that the IRT got activated well in time.
- b) It was suggested that the focus needs to be more on mobilization of the community (like volunteers from NGOs, ex-servicemen, local youth).
- c) The district raised demand for equipment like thermal sensors/detectors, RCC cutters and cameras (required for carrying out SAR operations in collapsed concrete structures).
- d) Fire safety of heritage buildings must be ensured, the staff needs to be trained on handling fire safety equipment.
- e) More helipads need to be identified (a few options are: grounds of Bishop Cotton School, Tara Hall School, the Ridge, Bharari Police Ground).
- f) There is need to reflect on issues like how many ambulances/fire brigades are actually required in the staging area.
- g) As far as medical responsiveness was concerned, the doctors need to be trained to deal with nuclear, chemical and biological disasters.

30. B. Recommendation from the Panel:

- a) The list of helipads must be included in the DDMPs.

- b) Civil Defence in Shimla needs to be revamped.
- c) There is need to expand the road connecting Annadale to the main city.
- d) There is a strong need for training the community on fire safety.
- e) Equipment required (for specialized SAR) has to be identified by the district and the personnel/department that will handle it.
- f) Departmental DMPs and evacuation plans for all government buildings, especially the Heritage Buildings should be devised/revised. The NDMA has specific guidelines in this regard, which must be refereed to.
- g) Fire Brigade should be available for discharging services outside and is not required in the staging area.

3. Kangra

31. A. Key observations and suggestions from district administration:

- a) The district authority reported that the exercise was successfully executed in every sub-division.
- b) They faced issues with communication, such as: voice overlaps, relaying of their own voices and so on.
- c) They suggested that for DM communication a dedicated bandwidth should be operationalized.
- d) Inter-district communication was missing, which must be practiced in future drills.
- e) The district administration also put forward the need to localize the terms used in IRS.

32. B. Recommendation from the Panel:

- a) There is need to customize the IRS terminology.
- b) Mutual coordination has to enhance, along with the coordination with the SEOC
- c) There is a critical requirement to develop a dedicated second line for communication for Disaster Management.

4. Chamba

33. A. Key observations and suggestions from district administration:

- a) The district reported that initial mobilization was slow.
- b) The medical response was also slow.
- c) Communication through I-SAT phones was difficult.
- d) Community participation was weak. This can be strengthened by roping in various religious groups.
- e) The involvement of Army and CISF was good.
- f) It was suggested that some responsibility needs to be fixed for non-participation in the mock exercise.

- g) The SOPs on managing resources at staging area must be developed.
- h) It is essential to train stakeholders at various levels on IRS.

34. B. Recommendation from the Panel:

- a) Regular trainings and conduct of mock-drills at district/sub-divisional and departmental level will resolve these issues and will improve response time.
- b) Involvement of religious groups can be an effective strategy to manage various relief operations, and also it will be effective for community mobilization.
- c) For future, mock drills can focus on one or two districts.

5. Una

35. A. Key observations and suggestions from district administration:

- a) As the district has a lot of industries, there is a pressing need for training on chemical disaster management.
- b) It was reported that communication with the Army was not possible.
- c) Temporary mortuaries were created in make-shift hospitals.
- d) Some personnel of the QRTs of Home Guard/Police had been transferred, so there were some issues in coordination.
- e) Rescue equipment like ropes and ladders should be fire resistant. Other equipment like sky-lifts and ladders may also be procured.

36. B. Recommendation from the Panel:

- a) Establishing liaison with military services is critical. The Army has provisions for aiding the civil authorities, and this must be tapped.
- b) Industrial DMPs should be formulated at the earliest, with technical inputs of the Industry Officer.

6. Hamirpur

37. A. Key observations and suggestions from district administration:

- a) District administration highlighted the gaps in their District Disaster Management Plans.
- b) Coordination issues were also reported.

38. B. Recommendation from the Panel:

- a) Revise the district level DMPs.
- b) Organize meetings with relevant stakeholders.
- c) Arrange for table-top exercises at district level.

7. Bilaspur

39. A. Key observations and suggestions from district administration:

- a) Reported that responders were not trained adequately.
- b) Proper analysis was not feasible, hence deployment was problematic.
- c) The QRTs found it difficult to operate in city market due to encroachments.
- d) Inventory of equipment and details of local contractors need to be in plans.

- e) Coordination issues, and communication gaps were evident.

40. **B. Recommendation from the Panel:**

- a) There is an urgent need to revise the District and Departmental DMPs. The SDMA may provide necessary support to all the districts.
- b) The modernization of fire-services must be considered.
- c) Training on IRS has to be strengthened.

8. Kullu

41. **A. Key observations and suggestions from district administration:**

- a) Walkie-talkie sets were purchased for Dussehra were used by district administration, which proved an effective strategy for communication.
- b) Tents were borrowed from ITBP, and it took around half an hour to set up the staging area.
- c) The IRT were aware of their roles and responsibilities.
- d) Rafts were also used for rescue operations.
- e) The district administration recommended regular meetings with the line departments to ensure better coordination.
- f) The district recommended procurement of water proof tents

42. **B. Recommendation from the Panel:**

- a) The walkie-talkie sets can be a viable option for all districts. The districts must keep a check on batteries.
- b) Effective liaison with Army and NDRF must be maintained
- c) The Temple Funds (especially in districts Kullu, Bilaspur, Chamba, Una, Hamirpur) can be utilized for the procuring wakie-talkies for the districts.
- d) Local resources must be tapped.

9. Lahaul&Spiti

43. **A. Key observations and suggestions from district administration:**

- a) The district administration used only wireless sets for communication, and it was done with ease.
- b) The services of ITBP and BRO were utilized.
- c) There district does not have a blood bank, which is a necessary requirement.

44. **B. Recommendation from the Panel:**

- a) A blood bank should be established, and the list of donors needs to be prepared.
- b) More expertise is required for carrying out SAR/Medical first aid in far-flung areas. Hence trainings and capacity building initiatives should be planned as per district specific needs.

10. Kinnaur

45. A. Key observations and suggestions from district administration:

- a) The participation of Army and ITBP was commendable.
- b) SAT phones were used for communication, but in the long run district may consider other means of communication that are cost effective. Police networks were used by district authorities for communication.
- c) The rise of multi-storied buildings is a potential hazard for the district, and this needs to be regulated.
- d) It was requested that a permanent team of Home Guard be stationed in the district.

46. B. Recommendation from the Panel:

- a) The Scheme on Training of Masons on Hazard Resistant Construction is a step towards ensuring long term mitigation for disaster risk reduction.
- b) Special Area Development Authority (SADA) needs to regulate the structures being built.

11. Solan

47. A. Key observations and suggestions from district administration:

- a. It was reported that the line departments were responsive.
- b. The participation of volunteers was good.
- b) The district administration requested to conduct training on IRS on regular basis for all stakeholders.
- c) The SAR equipment with Home Guard department may be updated.

48. B. Recommendation from the Panel:

- a) Inventory of all the resources available with the districts needs to be prepared.
- b) Every district must conduct HRVA and prepare worst case scenarios for all the line departments.

12. Sirmaur

49. A. Key observations and suggestions from district administration

- a) Reported the lack of planning, especially in case of industrial hazards.
- b) Suggested trainings on first aid for students and personnel from various line departments.
- c) Faced issues in communicating with the SEOC.
- d) Thorough planning is required with respect to available resources and the gaps in requirement.

50. B. Recommendation from the Panel:

- a) Inventory of all the resources available with the districts needs to be prepared and updated.
- b) Sites for setting up relief camps should be identified in plans.
- c) Helibases need to be verified and location available in plans.

OBSERVER'S REPORTS

51. **Key actionable points/recommendations** that emerged from the from the observers reports at state and district level(s) are as follows:

AT THE STATE LEVEL

- a) The State Secretariat doesn't have adequate space for staging area.
- b) The state needs to identify an appropriate building which will have the capacity to remain functional in the face of disasters.
- c) The Secretary of each department should be actively involved in the conduct of mock drills.
- d) Elected representatives at each level; like MPs, MLAs, and concerned PRI Heads should also be involved in mock drills.
- e) Various functionaries should have tags/ banners/jackets which will make it easy to identify them.
- f) Work stations for each department must be identified.
- g) Walkie-talkie sets as used in district Kullu can provide a useful layer of communication.
- h) For communication at small distances, VHF wireless sets can be used.
- i) The Public Relations department should play an active role at all levels of the mock exercise. There should be hourly briefing of the media and hourly updates on the social media.
- j) All districts must create a list of vulnerable buildings, problem areas, bottlenecks, vulnerable bridges, dams and provisions of electricity/water supply.
- k) All districts must immediately take up mapping of resources.
- l) Inadequacies were noted in the drills conducted at hospitals; and department of electricity, IPH, food and civil supplies, industry and transport. Drills at the ESF departments should be regularly simulated.
- m) There is an urgent need of Hazardous Materials (HAZMAT) expert in the state and districts. The HAZMAT expert should be part of the Search and Rescue Team.
- n) The IRT members need to trained at least for a month before starting the mock drill.
- o) Effective liaison with the ITBP will ensure adequate utilization of its expertise in the hilly terrain of Himachal Pradesh.
- p) More coordination with the Army and Air Force is required.
- q) The DCs need to work in close association with other Central Armed Police Forces (CAPF).
- r) Measures need to be put in place to ensure safety of SAR teams, relief parties, medical teams and volunteers.
- s) Quarterly meetings of the IRT members of the State/District HQs need to be scheduled.

- a) Adequate training on First-Aid and SAR is required.
- b) Detailed reporting about incidents should be recorded digitally, which will ensure faster retrieval of information.
- c) The Help-desk numbers should be widely disseminated among public.
- d) Personal Protective Equipment (PPE) must be used by members of the SAR/Medical teams.
- e) Measures need to be put in place to control the traffic.
- f) Contingency plans need to be worked out effectively.
- g) Documentation needs to be more effective.
- h) There is an urgent need to identify HAZMAT experts and delineate their roles and responsibilities.
- i) Lack of equipment was witnessed at many places.
- j) Categorization of casualties must be done. Triage has to be more effective.
- k) Plans need to be put in place to ensure supply of drinking water.
- l) Steps must be taken to ensure supply of drinking water for people.
- m) Crowd management near staging area must be prioritized.
- n) Coordination between all agencies must be effective.
- o) For army columns, dedicated guides must be appointed.
- p) Instances of non-availability of skilled personnel (like doctors) must be reduced in future drills.
- q) Standard Operating Procedures (SOPs) of different departments need to be institutionalized.
- r) Reporting needs to be more detailed.
- s) There is more requirements of SAT phones.
- t) Community has to be more involved. To improve public participation community radios can be used.
- u) Home Guard staff needs more training, especially with the use of equipment required for cutting, lifting, removing debris.
- v) The concept of staging area may be reconsidered in hill cities. This may help in avoiding traffic chaos or any other crisis that may arise due to mismanaged traffic.
- w) Prepositioning of specialized equipment like JCBs, cranes, backhoes and drilling machines may be considered.
- x) Regular practice and conduct of half-yearly mock drills will improve response time of personnel.
- y) Arrangements for establishment of relief camps need to be improved and alternate sites need to be identified.
- z) Strengthening of helipads and air operations is required.
- aa) Resource management should be practiced to ensure optimal utilization by various departments/sections.

The State had also deployed four medical observers. Their recommendations are as follows:

- a) About 70% staff of IGMC is residing at places far from the hospital. More accommodation is required near IGMC to ensure that they can respond quickly in case of disasters/emergencies.
- b) Alarm system should be installed at IGMC at the earliest. At present it is very difficult to inform all the staff members, in the absence of such systems.
- c) Only three escape routes are present in IGMC building (stairs, two lifts and ramps). In case of disaster, like earthquake these routes will not remain usable. It is suggested that a ramp should be constructed outside the hospital building for stranded people.
- d) Communication inside the hospital is through landline and mobile phones. In case of disaster, these may fail. HAM radio/at least one satellite phone for each department should be provided.
- e) During the drill it was observed that there were less security personnel to control the traffic and people. More trained security personnel should be deployed to control traffic.
- f) Most patients report at IGMC even for minor ailments. There should be strengthening of health facilities and structure at grass root levels, to avoid patient overload.
- g) No helipads are available near the hospital. Hence helipad should be made on the roof of new OPD block of IGMC and Military Hospital. In case of road block, the patients can be airlifted.
- h) Provisions for nuclear and biological contamination control room are much needed in the hospital.
- i) Disaster management training should be given to all the hospital staff on regular basis.
- j) Hospital staff and medical teams should be adequately equipped with medical supplies/resources.
- k) More skilled medical practitioners need to be appointed in state and regional hospitals.
- l) Casualties should be categorized and triage area should be properly marked.
- m) Better coordination and improvement in communication of information has to be ensured.
- n) Adequate water supply within hospital premises should be ensured.

1. Appointment of Observers should be finalized before the Coordinating Conference.
2. Activation of State IRT is a big challenge and there is need to work on it. Hardly any senior member of State IRT participated in the drill.
3. IRT members need to be trained and oriented about their roles and responsibilities.
4. Strengthening of State EOC is of prime importance. There was no space in State EOC to accommodate the IRT Members. Being very senior officers in State IRT, they need proper arrangement to sit. The makeshift sitting arrangement made to accommodate IRT members was possible as Hon'ble Chief Minister was on tour and space meant to park his cars was utilized for this purpose.
5. No representative of PWD, I & PH and HPSEBL participated in the Table Top Exercise. These departments were also very slow to report in SEOC on the day of mock drill. This happened despite intense follow up.
6. Departmental DMPs at District Level should be prepared at the earliest. DDMA's may provide technical support to the departments to prepare their plans.
7. Plans of the district and regional hospitals may also be prepared by the Health Department.
8. DDMA's may hold regular drills involving ESF departments.
9. BRO has huge resources in the state. There is need to map and put the same in DMPs and IDRN.
10. In future we may involve Railways, Forensic Science Laboratory, Industrial Associations, Key Power Developers like BBMB, NHPC, etc. in these exercises.
11. Use of IDRN should be also focused in these exercises.
12. The exercise may also focus of inter-district coordination and assistance.
13. The activation of airbases and having adequate arrangement of receiving, loading, unloading, sorting of relief material and other resources should be focused upon.
14. The Divisional Level administrative set-up should be given role and responsibility for disaster response and they should also be involved in such exercises.
15. Political leaders and community at all levels should actively be involved in these exercises in future.
16. The DDMA's should focus on performing duties as entrusted to them under the DM Act (2005) e.g. disaster risk reduction, formation of DIAG, identification and listing of relief camps, preparation of DMPs by Departments at district level, making EOCs as nerve center for DRR, pre-contracting for relief supplies and taking steps for reducing risk, etc.

ANNEXURE A**Date - 03 July, 2019****Venue - Armsdale Conference Hall, HP Secretariat, Shimla.**

ORIENTATION AND COORDINATION CONFERENCE (ANNEXURE A-I)			
Sr No.	Name	Designation/Organization	Contact details/Email ID
1	Suresh Kumar	DGIGD ITBP 2 nd BN Kullu	9463102050
2	Ravindra K. Kumbhare	DC(Comn) SSB, ATC Kumarsain	9654106287
3	Navin Kumar	Asst. Comdt (Com), TTC, SSB, Kasumpti Shimla	8920205035
4	Mohiram	INSP/GD SSB ATC Kumarsain	9805234159
5	Angrej Singh	INSP/GD TTCSSB Kasumpti Shimla	7973476498
6	Naveen Kumar	TOTS CRPF Dharampur	7006826404
7	Rajan Kumar Sharma	CB& T, DDMA Sirmaur (HP)	9459779314
8	Shakuntla Thakur	Excise & Taxation Commision	9418813015
9	GP Capt S R Singh	Adv HQ WAC, Chandigarh	8852810823
10	Hitesh Azad	Joint Director Elementary Education Govt of HP	9418695123
11	Sunil Kumar	Insp/GD ITBP Bonda Sarahan	9957512789
12	Pankaj Dodwal	CEI of Electrical Inspector	7018112631
13	Arun Gupta	CEI Chief Electrical Inspector	9817114002
14	Dr. M L Shandilya	Deputy Director Ayurveda Deptt.	9418037954
15	Madan Chauhan	Director, FCS&CA	9418200013
16	Naresh Thakur	ADM, Shimla	9418003325
17	Sumit khimta	Add Dir. Health	9816711011
18	O P Gupta	C W C	9711377337
19	Manoj Kumar	Dy Director C W C	Manojkumar1-cwc@nic.in
20	Dr. Shomin Dhiman	Hospital Administrator IGMCM Shimla	9873439042
21	Ravi Kumar Pandita	Comdt, 7NDRF PB	9417802032
22	Ashok Chauhan	HP Forest Department	ashokchauhanfs@gmail.com
23	Lt Col Vivek Yadav	22 Rajput	9473500122
24	Col A S Basur	Adm Comdt, Stn HQ Shimla	9414061966
25	Comdt Arjun Negi	17 ITBP ;Police Peo	9418007346
26	Gian Chand Sharma	Local Audit Deptt, Shimla	9418024389
27	PC raturi	TTC SSB Kasumpti	9459376210
28	Dr. Neha Sharma	CD&T, DDMA Shimla	9857379885
29	Narender Kaith	IT Coordinator, DDMA Shimla	9459148880
30	Bhanu Sharma	DDMA, Kangra	9459278586
31	Praveen Bhardwaj	DDMA, Bilaspur	8988341921

32	Pardeep Kumar	DDMA, Mandi	9418302496
33	Vikas Saini	ITI Krishangarh Solan	9418600094
34	Pankaj Kumar	ITI patta Mehlog Solan	9459166710
35	Sb Shri Kishan	22 Rajput Juog	8988857803
36	Sub Jagram	22 Rajput	8988803241
37	Sub Sambhu	22 Rajput	8988803248
38	Karta Singh	Tourism Deptt	9805103005
39	Piar Singh	Tribal Deptt	9418754610
40	Ramwesh Chand	ITBP Tara Devi	9418330654
41	B S Chauhan	Commt, Home Guards HP Shimla	9816003564
42	Dhyan Singh	State Commissioner OBC	9459279508
43	V K Chaudhary	Ptg. & Staty Deptt	9816005153
44	Kamal Saroch	DC lahaul Spiti	9418300567
45	Aditya Negi	ADC Sirmaur	9459626586
46	Rugved Thakur	DC Mandi	9816655300
47	Harikesh Meena	DC Hamirpur	9816843333
48	Sudhir Gupta	M C Shimla	9418471478
49	Dr. Harkanchan Singh	CPC MC Shimla	9816115320
50	Vijay Singh	ITS, HPSDMA	
51	Rajeshwar Goel	DC Bilaspur	9418081670
52	Chandan Kapoor	Dept of Panchayati Raj	9418056629
53	Ram Singh	Do	
54	R S jacta	HPSEBL	9417216043
55	Vikas Sood	Excise Deptt	9418000089
56	R S Rathore	Corporation Deptt	9418014618
57	Manoj Tomar	GAD-SAD	9418310851
58	Preeti Negi	DDMA Kinnaur	9418717943
59	Anita Thakur	DDMA Solan	7018420230
60	Ajay Kapoor	HPPWD	9418088404
61	Rakesh Kumar Vaidya	IPH Deptt	9418487300
62	Japesh Chauhan	Fisheries Deptt	9418487300
63	Dr. Yuvi Tyagi	Deptt of Health and Family welfare	9418300121
64	Mahesh Pathania	IPR	9418021112
65	Sachin Kamal	RDD	9418480003
66	Anurag Nag	Interim Disaster Management Centre HIPA	8968222740
67	Desh Bhandu Kaith	DM Centre HIPA	9816020434
68	Nisha Bhaluni	Higher Education	9418109130
69	Vikas Sharma	DDMA, Hamirpur	8558875013

70	Ravinder Thakur	FCS&CA	9459037742
71	Himanshu Mishra	IGP-APST hP Police	9418022755
72	Rajesh Verma	SP CTS Police	9418000238
73	Harbans S Brascon	Dir IPR	9418002996
74	Kritika Kulhari	CEO, Himurja	9418149498
75	Naresh Kumar Sharma	ARO Himurja	9816068510
77	Rajeshwar Goel	DC Blaspur	9418081672
78	Gopal Chand	DC Kinnaur	9418065900
79	Sandeep Kumar	DC Una	9418094470
80	Vidya Sagar Sharma	Dy Dir Horticulture	9418162830
81	Samson Munshi	Dy Dir NYKS Shimla	9417178663
82	Vijay Kumar	Assistant Dir NYKS Shimla	8894999516
83	Amit Kashyap	DC Shimla	9418500005
84	Dr K R Saizal	Joint Secy	9418475720
85	Dharam Chand Sharma	Divisional Fire Officer	9418496040
86	Rajeev		9418019502
87	Hemraj	ADC Chamba	9418797980
88	Dr. Devender Lala	Dir AH Shimla 5	9418299001
89	Sunil Chauhan	Dir of Industries	9418062828
90	T R Azad	Joint labour Commissioner HP	9418046169
91	Suresh Kumar Sharma	Deputy Director WCD	7018419806
92	R K Bhardwaj	Commandant, Civil Defence	980564419
93	Bali Ram	DYSSO Shimla	9418030012
94	Jai Dev	Sr Asst	9418855523
95	Prem Singh	CO DM Cell	8679787027
96	Rinku	DEO DM Cell	9816305955
97	Kamal Thakur	DEO DM Cell	8894391012
98	Dr. Richa Verma	DC Kullu	9418069685
99	Rohit Bhardwaj	Dir, TCP Deptt	9882255724
100	Deepak Kumar Panday	Sector HQ Shimla	9868402503
101	Garima Sharma	HP-SDMA	7838433498
102	Vivek Sharma	HPSDMA	8851063017
103	Murari Panday	DM Cell	
104	Rajender Kataria	DM Cell	
105	H S Shandil	DM Cell	
106	Prakesh Chand	DM Cell	
107	Sanjay Kumar	DM Cell	

9th July Mega Mock Exercise: Meeting with Observers (ANNEXURE A-II)			
Sr No.	Name	Designation/Organization	Contact details/Email ID
1	Deepak Kumar pandey	Sector Commandant ITBP Shimla	9868402503
2	Col Neeraj Mishra	Commanding Officer	7650002322
3	Lt Col Vivek Yadav	Second In Command	9473500122
4	Capt Abhishek Bisht	4 th Assam, Dagshai	9650173734
5	Insp/Comm. Ananda	SSB, Telecom Kasamputi	8967092407
6	Ramesh Chand	ITBP Tara Devi	8626992348
7	Suresh Kumar	Dy Comdt	8278884019
8	Priya	Home Guard CTI	9418609506
9	Dr. S S Randhawa	Himcosta	9418382126
10	R K Bhardwaj	HHG Civil Defence	9805641119
10th July Mega Mock Exercise: The Table Top Exercise (ANNEXURE A-II)			
1	Gauri Nath	Asst.Commandant CISF/CISF unit	0822203902
2	Hitesh Azad	Joint Director Elementary Education	94186-95123
3	Vikram Sharma		
4	Neeraj Mishra	CO 22 Rajput	8605085069
5	Capt. Rajit Singh	22 Rajput	9896195401
6	Capt. Rahul Singh	RMO, 22 Rajput	9780627877
7	Dr. S.S. Randhwa	Pr. Sec. officer HIMOOSE	9418382126
8	Robin Lakhanpal	DOT	9418008001
9	Sanjeev meena	DOT	9459338936
10	Rajesh Verma	S.P/C.T.S H.P Police	9418000238
11	Dr.Tyagi	OSD to DITS	9418300121
12	Dr. Giriza Nand Chauhan	Directorate of Higher Education H.P Shimla	9459767811
13	Rohit	SOI,WIC,HQ Deepak	8447827902
14	Rohit Bhardwaj	Nodel officers cum ATP Directorate of Town & country Planning	9882255724
15	Cpt. SR Singh	Adv HQ WAC Chandi Mandir	8852810823
16	Bishan Chand	Bharti Ltd Mehli	9816649874
17	Anuj Kumar	Manager operation	9815549658
18	Anil KR Gupta	Senior Manager Reliance Jio	7018998123
19	Amit Bhardwaj	Reliance Jio	9816600795
20	Priya Sharma	Comdr- HP Home Guard CTI Shimla	9418609506
21	Madam Chauhan	Director FCSCA	9418200013`
22	Ravinder Thakur	Joint Director FCSSCA	9459037742
23	Mnoj Kumar	Dy. Director CHC Shimla	9873439042
24	Sunil Chauhan	Tehsildar Deptt. of industry Shimla	9418062828

25	Sunil Kumar	Inspt/GD 19 th BN ITBP	9857512789
26	Dr. K.R Saizal	Joint Secretary Rev	9418475720
27	Ramesh Chand	ASI/GD Shimla	8626992348
28	S.S Sharma	Ac TO DC Shimla	9816050032
29	Ashok Chauhan	CF (FPEFC)Bilaspur Forest Department	9418161061
30	O.P Chand	Director CWC Shimla	9711377337
31	Sumit Chimta	Add. Director Health	9816711011
32	R.K Bhardwaj	AIU Command HHC & CD	9805641119
33	Ravi Kumar	Commandant NDRF Bathinda	9425293743
34	Deepak Kumar	Commandant Sector HQ (Shimla)ITBP	9868402503
35	D.C Rana	Director cum-Special Secretary DMC Cell	9418184700
36	Pradeep Kumar	Joint Director Public Relations	9418001140
37	R.P Singh	Dy. Gernal Manager BSNL	9412739217
38	HS Mann	Director Planning HQ Dir Gernal North West (BRO Chandigarh)	9560072991
39	Hemis Negi	Addibational Commissioner Transport & Addl Director IT	9418116667
40	Vidya Sagar Sharma	Dy. Director of DHHP	9418162830
41	Dr. Somin Dhiman	Hospital Administrate IGMC Shimla	9418066694
42	Dr Vivek Chauhan	Nodel Officer Incharge IGMC Shimla	9418341202
43	Nitesh	AM Planning Airtel	9816049816
44	Shashi	Airtel	9816249813
45	Shaveen Sharma	Relience Jio State Manager	7018999180
46	Gurrmail Singh	Heod Network Airtel	9760503999
47	G.C Negi	Addl Director Industries	9418099992
48	Sushil Sharma	Deputy Director	7018419806

11 th July 2019 Mega Mock Exercise (M.E) (ANNEXURE A-III)			
1	Col Neeraj Mishra	CO, 22 Rajput	8605085069
2	Capt. Ranjit Singh, SM	22 Rajput	9896195401
3	D.C Rana	Director Cum Spl Secy.	9418184700
4	Rajesh Verma	SP/CTS	9418000238
5	Sanjiv Meena	ADG(T) DOT	9459338936
6	Amit Bhardwaj	Reliance Jio	9816600795
7	Muhammad Deen	HC, ITBP	9816217169
8	Dr. Girija Nand Chauhan	Director of Higher Education H.P	9459767811
9	Ajay Garg	CE HPRIDC Shimla	9816004654
10	Chet Ram	SI, CID	9418038436
11	Sunil Chauhan	Teh. Deptt of Industry Shimla	9418062828
12	Surender Singh	Computer Operator	8376088416
13	Garima Sharma	Capacity Building & Documentation Coordinator	7838433498
14	Himanshu Mishra	IGP- AP&T	9418022755
15	Dalip Kumar	PSO IGP AP&T	9805658069
16	Dr. S.S Randhava	Pr. Scientific officer HIMCOSTE	9459037742
17	Ravinder Thakur	Jt. Div. FCS&CA	9459037742
18	Roop Singh		8112299636
19	Shaveer Sharma	Reliance Jio H.P	7018999180
20	Shashi Raitka	Telecom/ Airtel	9816249813
21	Dr. K.R Saizal JS (Rev)	IRT	9418475720
22	Er. K.C Sharma	EE(W) HPPWD Nirmen Bhawan Shimla-2	9418387415
23	C. Sunil Chauhan 333	Constable	9805123004
24	Gauri Nath	Astt. Commandant GSF Unit FGUTDP(U) U.P	8222023902
25	Manjeet Singh	NDRF/DVR M.T	7087058277
26	Ashok Kumar	NDRF	8003161765
27	Pradeep Kumar	Jt. Dir IPR	9418001140
28	B.M Gautam	PA Directorate of Transport	9817999343
29	Harbans S. Brascon	Dir, IPR	9418002996
30	Bal Krishan	Jr. Cameraman	9857161075
31	Dr. Uvi Tyagi	OSD to DM	
32	O.P Gupta	Dir , CWC	9711377337
33	Gurmail Singh	Airetl DGM	9760503999
34	T.S thakur	VL. TSP	8894294037
35	Lalit Bhushan	HPPWD	9816128816
36	Pushep Raj ASI/CTS	CTS Ploice	9418018522

37	Lalit kumar	ITBP	9418157484
38	Ramesh Chand	ITBP	8626992348
39	Manjit Sml	IPR Shimla	9418484449
40	H.S Shandil	AO DMC	9857287091
41	Mr. Kalta J.P	Dir HPSEBL	9418026481
42	R.K Bhardwaj	Dir Comm. HHG&CD	9805641119
43	P.B Sharma	Coy Comdr HHG&CD	9418609506
44	U Col Rohit	HO CE (P) Deepak BRO	844782952
45	Col Harpareet singh Maan	ADGBK (Northen Road)	9560072991
46	Reshma kashyap	Reporter (News 18)	862708400
47	Roshan Charna	News18	985278400
48	Dr. Rachna Pandey	CWO (SH) ITBP	8076825475
49	Prakash Chand	HCP MEAIC ITBP	8219512329
50	Rajesh Sharma	SO	9418459666
51	Abhijit Ghatak	Superindent	9418009891
52	Manoj Tomar	Addl. Secy. (GAD)	9418310851
53	Sumit Khimta	Addl. Dir. Health	941815077
54	Rajesh Sharma	SP (Wireless) Police Dept. 20 Persons of CTS, Police for Wireless 7 Persons of CTS, Police for ISAT Phones	
55	Vivek Sharma	Sr. Consultant Rev- DM	
56	Garima Sharma	CBDC Rev-DM	
57	Vijay Singh	ITS Rev-DM	
58	Murari Pandey	Clerk Rev-DM	
59	Prakash Chand	Clerk Rev-DM	
60	HS Shandil	AO Rev-DM	
61	SEOC Staff	8 Staff Members Rev- DM	
62	Rajender kataria	Sr. Astt. Rev-DM	
63	Additional Staff of Army		10 NO
64	Additional Staff of ITBP		12 NO
65	Additional Staff of NDRF		3 NO
66	Additional Staff of IAF		3 NO
67	Additional Staff of CISF		2 NO

11 th July De-Briefing Mega Mock Exercise: ANNEXURE A-IV			
1	O.P Gupta	Director MC	9711377537
2	K.C Sharma	EE(W) HPPWD Shimla-02	9418387415
3	Ajay Garg	Chief Engineer HPRIDC Shimla	Q9816004654
4	Dr.S.S Bhushan	Chief Engineer Shimla jone HPPWD Shimla	9816128816
5	Dr. Yovi Tyagi		
6	Sunit	Addl Dir. Heath	9418155077
7	A.K	Dy. Commndt. HHG & CI	
8	Himanshu Mishra	IGP-AP & T	9418022755
9	Ravi kumar	Commandant 7NDRF Bathinda	9425293747
10	Deepak Kumar Panday	Sector Commandant Sector HQ Shimla ITBP	9868402503
11	Neeraj Mishra	CO 22 Rajput	8605085069
12	Capt.- SR Singh	Adv HQ (WAC)	8852810823
13	Gauri Naith	Asstt. Commandant CISF Unit FGUTPP(unit)	8222023902
14	R.P Singh	D.G.M BSNL	9412739217
15	Rajinder Kumar	DE BSNL	9418035234
16	Lee HS Mann	Dir. HQ ASCNW (BRO) Chandigarh	9560072991
17	Cpt. Rohit	HQ CE (P) Deepak BRO	8447827952
18	Hemis Negi	Addibational Commissioner Transport & Addl Director IT	9418116667
19	Dr. Girija Nand Chauhan	Director of Higher Education H.P	9459767811
20	INSP/Comm. Ananda	SSB Telicomm Training Center Kasumpti	8967092407
21	Rajesh Verma	SP/CTS, HP Police Shimla	9418000238
22	Capt. Ranjit Singh SM	22 Rajput	9896195401
23	Pradeep Kumar	Joint Director Public Relation	9418001140
24	Mohammand Deen	ITBP	9816217169
25	Ramesh Chand	ITBP	8626992348
26	PB Sharma	Commndr. HHG CD CTI Sargheen Distt Shimla	9418609506
27	Manoj Kumar	Dy. Director CWC Shimla	9873439042
28	Sanjeev Mena	ADG (T) D.T Shimla	9459338936
29	Ravinder Thakur	Joint Dir. FCS & CD	9459037792

ANNEXURE B-1



5th Mega Mock Earthquake Exercise 11th July, 2019

Orientation & Coordinating Conference
3 July 2019

Suggested Locations of the Mock

- All districts of the State
- Multiple locations (e.g. State HQ, District HQs, Sub-Divisional HQs, Hospitals etc.) as may be decided by the DCs - **(Action by - SDMA/DDMAs)**
- HP Secretariat - **(Action by: SAD)**

Need of the Mock Exercises

- Inculcating a **Culture of Preparedness** for Disaster Management
- Helping the State Governments in reviewing **adequacy and efficacy** of the **disaster management plans**
- **Identifying gaps** in resources, communications and systems
- **Institutionalizing** the DM framework
- **Awareness Generation**

Selection of Sites

- **Select Critical Buildings**
 - e.g., School Buildings, Hospital Buildings, Important Public Offices (Governance Continuity), Police Stations and Prisons, Fire Station Buildings
- **Select Critical Lifeline structures**
 - e.g., Bridges, Pipelines/water tanks, Communication buildings/Towers, Water Reservoirs, Dams, power houses



The 5th Mega
Mock Exercise
11th July, 2019
Time ?

Key Objective

To Assess the efficacy of:-

- Public and institutional awareness & preparedness
- Response Plans (of DDMP/SDMP/ Departmental DMPs) at respective level
- Knowledge about **Emergency Support Functions** and institutionalization thereof in the Departments/Districts.
- Functioning of EOCs
- IAG/GO-NGO Coordination
- Response plan of district hospitals, etc.

Disaster Management Plans

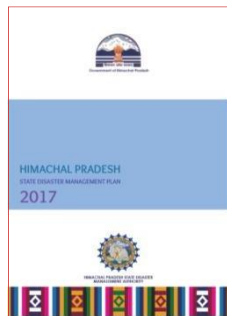
39 Departmental DM Plans



- Departmental Disaster Management Plans for 39 Departments have been prepared under Section 40 of the DM Act 2005
- First State in the country to prepare the DM Plans for all the Departments

Himachal Pradesh State Disaster Management Plan, 2017

- Section 23 (5) of the Disaster Management Act makes it imperative that the HPSDMP is updated and revised.
- HPSDMP 2012 has been updated and revised taking into consideration all the new developments.
- It has encouraged development of various functional, procedural and operational systems for disaster management.
- The SDMP 2017 has been aligned with three landmark International Agreements adopted by the global community in 2015 that have significant bearing on disaster management. These are :-
 - Sendai Framework for Disaster Risk Reduction
 - Sustainable Development Goals (2015-30)
 - Paris Agreement on Climate Change



Emergency Support Functions (ESFs)



District Disaster Management Plans - 2017

- District Disaster Management Plans for all the 12 districts have been prepared/revised under section 31 of the DM Act 2005
- District Disaster Management plans of each district have been revised in 2017, under the close coordination of the District Disaster Management Authorities and the State Disaster Management Authority.
- The present plans have been revised keeping in view both the highlights and shortcomings of the previous plans for making it more practical with its feasibility of being implemented and executed.

ESF Function Plan at the State Level

ESF No.	ESF	Primary Agency	Secondary Agency
1.	Communication	BSNL	Police, Armed Forces
2.	Public Health	Health and FW	Ayurveda
3.	Sanitation/Sewerage Disposal	UD	I & PH
4.	Power	HPSEB Ltd.	Himurja
5.	Transport	Transport	HRTC, GAD and Civil Aviation
6.	Search and Rescue	CD & HHG and Fire Services	Volunteers, Red Cross Police, SDRF, CPMF, Army
7.	Public Works and Engineering	HP PWD	CPWD, NHAI, MES, BRO
8.	Information and Communication	EOC (Revenue Deptt.)	IT, NIC

ESF Function Plan at the State Level

ESF No.	ESF	Primary Agency	Secondary Agency
9.	Relief Supplies	Revenue	Food and CS
10.	Food Supplies	Food and Public Distribution	Cooperation
11.	Drinking Water	I & PH	Urban Development
12.	Shelter	Revenue	HIMUDA, PWD, UD and PR
13.	Media	I & PR	DD and AIR
14.	Help lines	Revenue	Public Relations
15.	Animal Care	Animal Husbandry	Panchayati Raj
16.	Law and Order	Police	Home Guards
17.	Removal of Trees and Fuel Wood	Forest	Forest Corporation

The Exercise may involve

- Concepts of Incident Response System
- SAR – collapsed structures
- Maintenance of law and order
- Transportation of victims to hospitals
- Response of fire tenders to douse fire
- Setting up of relief camps
- Setting up of temporary hospitals
- Air-lifting of victims (?)
- Involvement of all departments

“Earthquake is mother of many disasters”

Steps of Mock Exercise

Step 1. Holding a Coordination and Orientation Conference.

- Objectives explained to the participants and their roles are delineated.

Step 2. Conducting the Table Top Exercise.

- The worst case scenarios are thereafter simulated from preparedness to early warning to rescue and relief phases of Disaster Management

Step 3. Conducting the Mock Exercise.

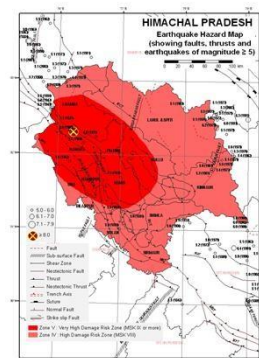
- Observers are briefed on their roles. Thereafter, they take over and start painting situations in a bottom-up approach with specialized inputs from nodal agencies.

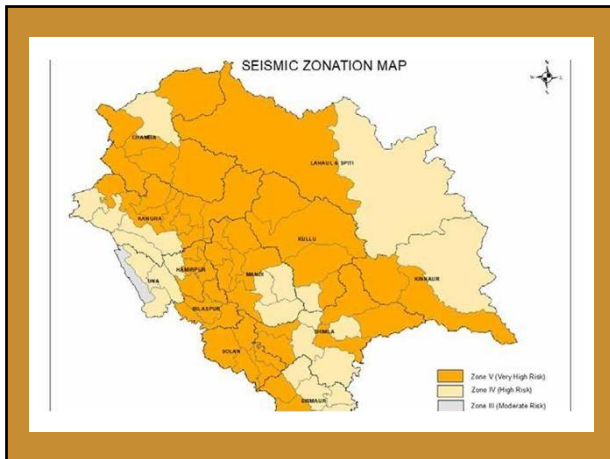


Earthquake Concerns in Himachal Pradesh

Time-Table

Sr. No	Name of the event	Dates	Venue
1	Orientation & Coordination Conference	3 rd July, 2019 Timings 11:00 AM onwards	Armsdale Building Conference Hall, HP Government Secretariat, Shimla.
2	Table Top Exercise	10 th July, 2019 Timings: 11:00 AM onwards.	All the DCs will attend through the Video Conference. State level Officers will be present at CS Committee Room to attend the Table Top Exercise.
3	Mega Mock Exercise	11 th July, 2019	State HQ and All Districts & Sub Divisions
4	De-briefing/Feedback	11 th July, 2019 2.00 PM	State level Officers will present for debriefing at Armsdale Building Conference Hall. Feedback from all the DCs & Observers through Video Conference.
	Media Briefing and	4.30 -5.00 PM	Media Briefing at CS Committee room.





1905 Kangra Earthquake

- The 8.0 Mw earthquake that struck Kangra on 4th April, 1905 at 6.19 am IST, lasted 2 minutes.
- Death toll 19,727.
- 1,00,000 houses were destroyed
- 53,000 animals perished
- Many buildings were leveled to the ground.
- Most of the government officials were killed and there was no one to super wise relief work.
- There were several major landslides, rock falls, and avalanches.

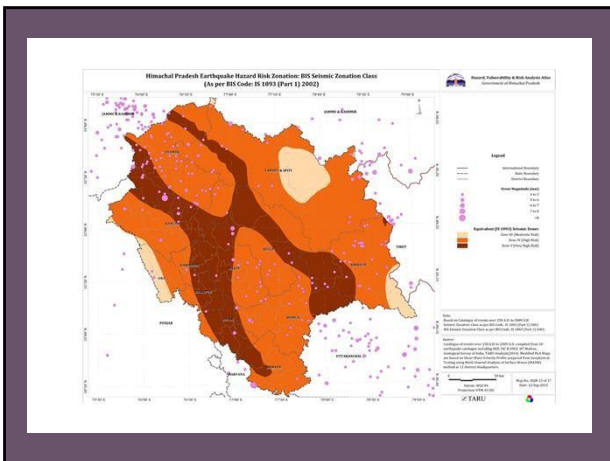


TABLE 6 - LOSSES IN MAGNITUDE 8.0 HYPOTHETICAL EARTHQUAKE IF OCCURRED AGAIN IN KANGRA, HIMACHAL PRADESH IN 1991
(Total housing units in the affected area = 1815,858)

S.No.	Item	Scenario if all buildings are <u>without</u> earthquake resistance		Scenario if all buildings are <u>with</u> earthquake resistance	
		Physical Damage	Loss in Rs* (million)	Physical Damage	Loss in Rs. (million)
1.	Loss of Lives	65000	6500	12000	1200
2.	Total collapse of buildings G5	136339	9540	8298	580
3.	Destroyed buildings, G4	263356	18430	94997	6650
2+3	Buildings to rebuild.	399695	27970	103295	7230
4.	Heavily damaged buildings, G3 (to repair & retrofit)	915602	12820	312382	4370
5.	Moderately damaged building, G2 (to repair & retrofit)	357510	3750	648040	6800
6.	Total losses		51040		19600

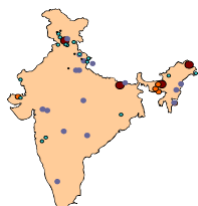
*Losses estimated in 1997 at 1997 costs

(Source: A.S. Arya, I2WCEE, Paper No. 2824, 2000 (Ref. A7))

Indian Seismicity

• Several large earthquakes in Himalaya in last 200 years

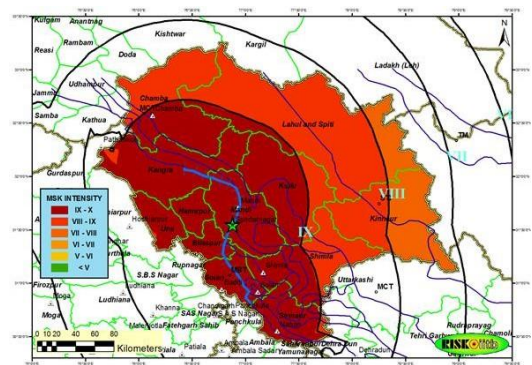
- M8+ Kumaon earthquake, 1803
- M7.7 Kathmandu earthquake, 1833
- M8.1 Shillong earthquake, 1897
- M7.8 Kangra earthquake, 1905
- M8.2 Bihar-Nepal earthquake, 1934
- M8.5 Arunachal Pradesh earthquake, 1950
- M6.8 Uttarkashi Earthquake, 1991
- M7.6 Kashmir Earthquake, 2005
- M6.9 Sikkim Earthquake, 2011
- M7.8 Nepal Earthquake, 2015





Projected Earthquake Scenario – (NDMA-IITs – 2012-14)

Projected Intensity Distribution : HP



The Earthquake

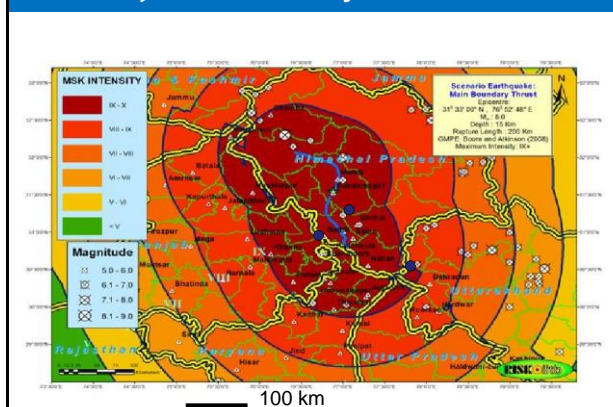
- **Hypothetical Earthquake**
 - Magnitude M 8.0
 - Epicentre near Mandi (Sunder Nagar)
 - on Main Boundary Thrust (MBT)
 - Earthquake in “seismic gap”
 - A night time event

Projected Scenario Earthquake

- **Exposed Area under the Scenario**

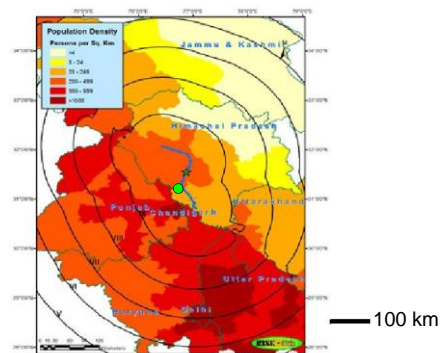
Intensity	Area (km ²)
	HP
X to IX	28,606
IX to VIII	21,139
VIII to VII	5,928

Projected Intensity Distribution



Projected Scenario Earthquake

- **Exposed Population**



Comparison of three cyclones - Odisha

1999 super cyclone	2013 Phalin cyclone	2019 Fani cyclone
<ul style="list-style-type: none"> Formed 25th October, 1999 Dissipated on 3rd November, 1999 Highest Wind speed 260 KM/Hour 10,405 direct fatalities Damage - \$ 4.5 billion 12.9 million people affected Strongest Ever recorded 	<ul style="list-style-type: none"> Formed 4th October, 2013 Dissipated on 14th October, 2013 Highest windspeed – 215/260 KM/Hour Only 45 deaths 1.15 million people evacuated Damage – 696 million 11th strongest – Cat. V Displaced 1 million people 	<ul style="list-style-type: none"> Formed on 26th April, 2019 Dissipated on 5th May, 2019 Highest wind speed 215/250 KM/Hour 64 fatalities Economic loss – \$1.81 billion 1.2 million people moved to safety 2.6 million text messages 43,000 volunteers 7000 kitchens, 9000 shelters

Campaign to make the mock drill successful

- Printing of Dos and Don'ts in print media (Action by- SDMA)
- Campaign through electronic media about "Drop, Cover and Hold" and other precautionary measures required for earthquake safety. (Action by- SDMA, DDMA's)
- Distribution of IEC material to local residents during the mock exercise (Action by- DDMA's)

At the HP Secretariat, Shimla

- Sounding of start with siren
- "Drop", "Cover" and "Hold"
- Call of Fire Services
- Orderly evacuation as per floor wise evacuation plan
- Assembly of staff at designated places
- Removal of vehicles (Govt.) by the Drivers to designated places
- Arrival of Fire and rescue tenders inside the secretariat parking lots
- Search and rescue by the fire department
- Closure of mock drill with the sound of the siren

(Action by- Secretariat Administration Department)

Documentation

- Report writing by district on what worked and what did not work; deficiencies noticed – department wise, etc.
- IRS Forms
- Lessons learnt
- Action plan to improve the DMPs
- Photography

(Action by – DDMA's)

Start of the Mock Drill

- Mock Exercise will be triggered by SEOC, Shimla
- The mock exercise may start with a pre-defined siren/sound which may last for 2 minutes.
- The Observers detailed by State, start painting the situations in bottom-up approach.
- Practice "Drop", "Cover" and "Hold".
- Followed by evacuation through the pre-defined evacuation routes and their assembly at the designated places.

(Action by- Secretariat Administration Department, HPSDMA, DDMA's in the Himachal Pradesh)

Let's live through
the scenario!



Experiences & Lessons from The 4th Mock Exercise 8th February, 2018

Recommendations of Last Exercise

- The Gap between coordination conference and mock drill should be atleast 15 days so that adequate time is available for preparation.
- Department of Telecommunications has shared they have mobile BTS towers in the state which can be used to restore the mobile communication for the affected area.
- In order to make the mobile service functional in the State at the time of disaster regular fuel supply is required therefore, DCs should issue strict orders to make available at least 10 Kilo liters of diesel to the mobile service providers to meet the demand.
- The State EOC and DEOCs needs to further up gradation and improvement.
- Satellite phones are required to be placed in the EOCs for the communication other than HAM Radio, Wireless and V-SAT. SDMA may plan to provide V-SAT to the districts especially in the remote vulnerable areas.
- A suggestion from NDMA was placed that the State shall establish its State level Disaster Response Force (SDRF), which can be trained by NDRF training centers for the collapsed structure SAR for the earthquake hazard.
- The Disaster Management Plans of districts and Departments may be shared with all the stakeholders so that the plans are known to all.

Issues Flagged during Last Exercise

- Some districts reacted to the alert as per the scheduled time pre-defined by them.
- Mock drill was mainly restricted to the district headquarters.
- The reactions at the district level could have started with holdings of the meetings of the DDMA. It happened only in one or two districts.
- Many Deputy Commissioners were seen immediately at the staging areas.
- "Drop, Cover & Hold" and evacuation drill but this didn't happen in all places as planned.
- The district didn't project requirement and demand at State level.

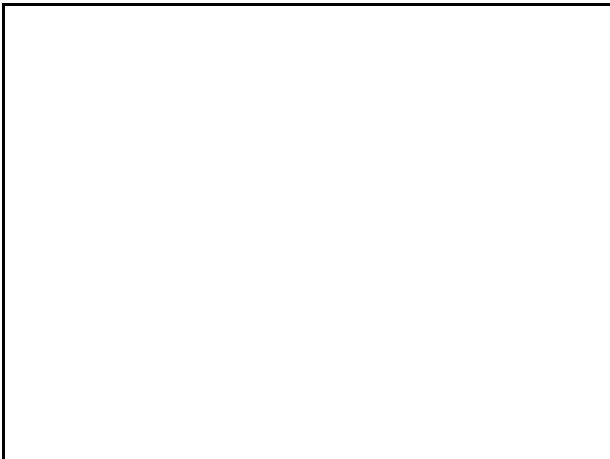
Recommendations of Last Exercise

- In order to handle relief material at airports the following may be notified nodal officers.
 - Divisional Commissioner Shimla - Shimla Airport
 - Divisional Commissioner Mandi - Kullu Airport
 - Divisional Commissioner Kangra - Kangra Airport
- Nodal officers may be nominated in State and District IRTs for disposal of dead animals and animal care.
- All army units located in the State should participate in their respective locations in future mock exercise.
- Matter needs to be taken up with western command to know as what kind of transport plane are capable of landing in Kangra, Kullu & Shimla airstrips.
- The Indian Oil Corporation should be requested to store adequate quantity of petrol in its Shimla store as the same isn't being done.
- The mobile telecommunication tower not running on electricity should be provided electricity connector on priority.
- The mobile number of IRTs member may be shared with N.O, DM, DOT so that they can be put on priority dialup list.
- HAM Radio Network may be expanded on priority in the State.
- A road map for IRS training should be worked out.
- Advanced SAR equipment may be provided to fire services

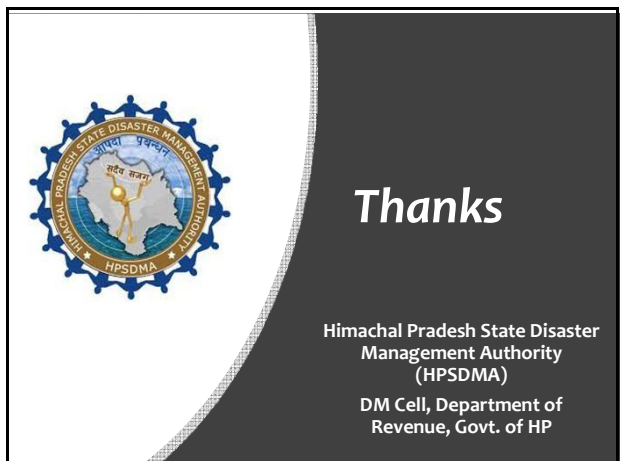
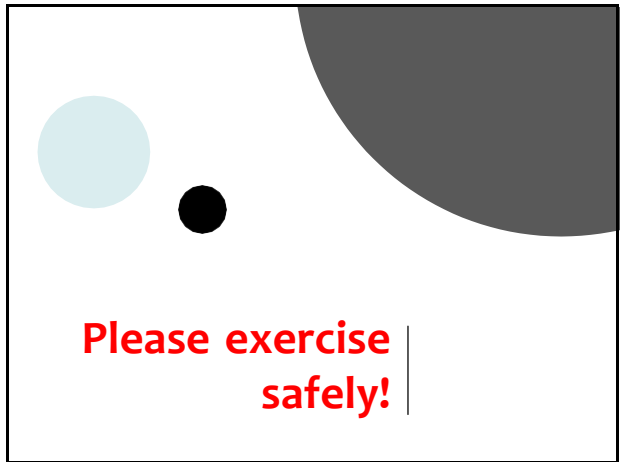
Issues Flagged during Last Exercise

- Some of the State IRT members reported quite late at State EOC.
- Most of the members of the State IRT were not aware of the IRS system and role they had to perform.
- The police had learned from last exercise and had deployed 6 wireless operators. Senior Officers were present in the State EOC and the work done by the Police team was very good.
- There were media reports from field that the patients didn't get stretchers in the hospitals and patients had to be carried on attendants back.
- Most of the media carried negative reports about the mock exercise. The criticism was about lack of equipment, preparedness and coordination.

Glimpses of 4th Mock Exercise 2018



Critique from Media



5th STATE LEVEL MOCK EXERCISE ON EARTHQUAKE - HIMACHAL PRADESH

ORIENTATION & COORDINATION CONFERENCE - 03 JULY 2019

Maj Gen Dr. V K Naik, KC, AVSM
SENIOR CONSULTANT
NATIONAL DISASTER MANAGEMENT AUTHORITY

SEQUENCE

ORIENTATION CONFERENCE
TABLE TOP EXERCISE
MOCK DRILL
SUMMING UP AND FEEDBACK SESSION

PREVIEW

1. Objectives.
2. Vulnerability of Himachal Pradesh.
3. Scope.
4. Sequence and methodology .
5. Suggested Participants.
6. Exercise Organizing Committee.
7. Scenario Building by HSDMA.
8. Detailment of Observers (for Mock Exercise only).
9. Over view - IRS.
10. Documentation.
11. Decisions to be taken.
12. Run up activities.

OBJECTIVES

1. To review **Disaster Management Plans** of the State.
2. To evaluate the **Emergency Response Plan** and **Standard Operating Procedures** of the District/s .
3. To highlight the **Roles and Responsibilities** of various Stakeholders.
4. Enhance Coordination among **Emergency Support Functions** of various stakeholders at District level.
5. To generate **Public Awareness** by involvement of **LGBs, NGOs and Community**.
6. Identify the gaps in the existing Resources, Manpower, Communications etc

DISASTER VULNERABILITY - HIMACHAL PRADESH

HIMACHAL PRADESH is vulnerable to multiple hazards:-

Earthquake

Landslides/ Avalanches

Floods

Fire

Chemical/ Industrial

Biological

Terrorist Attack

DISASTER VULNERABILITY - HIMACHAL PRADESH

HIMACHAL PRADESH is vulnerable to multiple hazards:-

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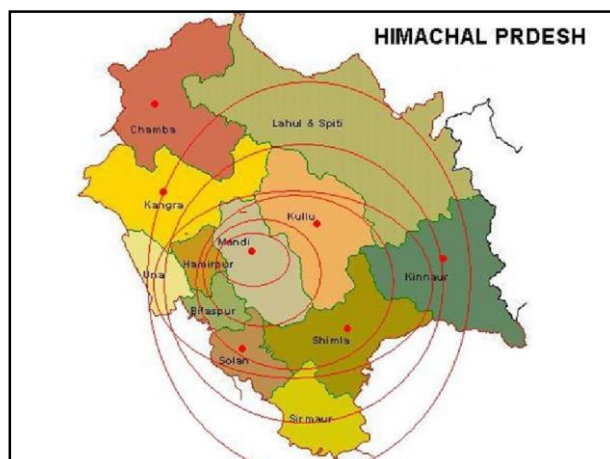
Earthquake



SCOPE

Table Top and Mock Exercise will be restricted to planning and response at the State/District Level with additional assistance from Central Government resources.

ALL DISTRICTS WILL PARTICIPATE



SCENARIO



1. Occurrence of an earthquake of magnitude 8 on Richter Scale in Mandi District of Himachal Pradesh will be depicted with epicenter of the earthquake between Sunder Nagar and Mandi towns. Time of the event 0000 Hours
2. In addition, the extent of damage in the affected districts, including number of casualties, roads and arteries which cannot be used and the extent of damage to the Services, like electricity, water and tele communication will be depicted site-wise by the observers.
3. To increase the level of difficulty in response, the contingencies such as bad weather conditions and heavy rain fall will also be played up by observers. (Air effort for response may not be available)

STATES LIKELY TO BE AFFECTED

- ▣ Himachal Pradesh - all districts
- ▣ Chandigarh
- ▣ Punjab
- ▣ Haryana
- ▣ Jammu & Kashmir
- ▣ Uttarakhand.

IMPLICATIONS FOR DISASTER RESPONSE OPERATIONS IN HP

7/26/2019

10

SEQUENCE

Orientation & Coordinating Conference, MAIN ISSUES

- Delineating objectives of The Table Top & Mock Exercise.
- Finalising the Scope of Table Top and Mock Exercise.
- Briefing on Method of Conduct of Table Top and Mock Exercise
- Participants
- Media Coverage.

TABLE TOP EXERCISE

AIM

- ✎ TO TEST THE DM PLANS OF DISTRICTS
- ✎ TO EXERCISE THE IRTs IN PLG EFFICIENT DISASTER RESPONSE
- ✎ FOCUS ON PLANS OF LINE DIRECTORATES IN PROVIDING SUPPORT TO THE MAIN PLAN FOR UNDERTAKING EMERGENCY SUPPORT FUNCTIONS.

METHODOLOGY - TABLE TOP EXERCISE.

METHODOLOGY - TABLE TOP EXERCISE.

- Precursor to Mock Exercise.
- IRTs under the RO of each district to participate through video conferencing.
- Presentation of plans by selected districts.
- Presentation of plans by selected line departments.
- Initially situations at the state level are discussed reactions at the state level are sought.
- Subsequently specific situations at District level are discussed –
 - The DC (RO) and other Stakeholders like SSP, District Health Officer, Fire Officer, Public Services Heads, SAR Team Leader, Communication, Civil Defence, Home Guard, Red Cross, RTO, NGOs Public Relations Officer etc are expected to respond.

METHODOLOGY - TABLE TOP EXERCISE.

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METHODOLOGY - TABLE TOP EXERCISE

DETAILS OF COORDINATION AND SAFETY ARE DISCUSSED.

THE GAPS ARE IDENTIFIED AND REMEDIAL MEASURES TDISCUSSED

DISTRICT ROS TO BRING OUT CRITICALITIES IN DISASTER RESPONSE IN THEIR AREAS OF RESPONSIBILITY, BASED UPON THE DISASTER SCENARIO, AND INDICATE CONTINGENCY PLANS, IF ANY, TO MANAGE SUCH CRITICALITIES.

RELEVANT LINE DEPARTMENTS TO BRING OUT LIKELY DAMAGE TO INFRASTRUCTURE – RAIL, ROAD, BRIDGES, HOSPITALS, COMMUNICATIONS SYSTEMS AND DISCUSS THEIR PLANS TO RESTORE NORMALCY IN SHORTEST TIME FRAME.

THE SDMA / RO TO GIVE AN OUT LINE OF NEED OF ASSISTANCE FROM THE CENTRAL GOVERNMENT IN THE GIVEN SCENARIO FOR ADVANCE PLANNING

Methodology - Mock Exercise.

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- Observers are detailed and format for assessment issued.
- Self Assessment Formats are given to all stake holders.

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- Mock exercises to commence on pre designated signal across the state.
- EOCs are activated at State and district level.
- Actions are taken on ground by concerned stake holders on orders of their own departments, as per the IRS
- Observers carry out critical evaluation of various response operations as per the allocated mandate

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- Incident Command Post is established at district level for command and control.
- Damage assessment is done based upon inputs available from ground
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- Staging areas are established in each district . Tasks Forces are constituted based upon recourses of manpower and equipment available and dispatched to various sites based upon the IAP ad directions from the Incident Commander /RO (at EOC)

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- Causality evacuation is carried out to pre designated hospitals.
- Relief Camps are established for evacuees.
- Specialist Response from NDRF Battalions, CAPF and Armed Forces also takes place.
- Continuous review of situation is done at EOCs and needs for additional assistance from outside the destruct/state are identified and projected to the central government

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- All DCs participate in a state level feed back session along with their IRTs through video conferencing, preferably chaired by the Chief Secretary/ Principal Secretary.
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- Salient's aspects of the response operations and lessons learnt at various districts are highlighted by the participants.
- The complete session is photographed and videographed to maintain records and preparation of the final report.
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Submission of Final Report.

- Reports are sent by all Stakeholders and Observers to State DM Department which consolidates and send to NDMA along with CDs of Videography and still photography.
- A Final Report is made at NDMA.
- Lessons Learnt are circulated to all concerned.

SUGGESTED PARTICIPANTS AT STATE LEVEL

1. Members of HSDMA & SEC (Chief Secretary – Responsible Officer)
2. DG Police.
3. Spl Secretary, Disaster Management.
4. Jt Secretary/Director, Disaster Management.
5. Secretary, Revenue.
6. Secretary, Health.
7. Secretary, Industries.
8. Representatives from PWD&CPWD
9. Head of Fire Services.
10. Director/ head DM Cell HIMACHAL PRADESH Administration Staff College.
11. Commandant CAPF Bns & (NDRF).
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14. Representatives of telecom service providers
15. Representatives of BRO where relevant

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Essentially IRTs at State and Districts , Heads of Line Directorates and representatives of all the Response forces of State and Central Governments

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2. SSP
3. Executive Officer, Municipal Authority
4. CMO
5. Fire Officer.
6. Inspector of Industries.
7. District Red Cross
8. Communication Officer.
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ASPECT FOR OBSERVATION DURING THE RESPONSE OPERATIONS & DETAILMENT OF OBSERVERS (FOR MOCK EXERCISE ONLY)

- Search and Rescue.
- Medical and Trauma Counseling.
- Evacuation and Law & Order.
- Helpline and Information Dissemination.
- Relief: Food and Shelter.
- Communication.
- Restoration of Essential Services – Water, Electricity, Sanitation, Schools, etc.
- Transport.
- Irrigation.

Note 1. Observers to be nominated by State Government/ Army and names intimated to NDMA before Table Top Exercise begins.

2. Format for the Observers and Self Assessment Formats will be issued during Table Top Exercise.

APPOINTMENT OF OBSERVERS

- ALL EOCS
- ALL STG AREAS
- ALL INCIDENT SITES
- ALL RELIEF CAMPS
- SELECTED MEDICAL FACILITIES

**FORMAT FOR OBSERVERS AND SELF
ASSESSMENT BY ALL STAKE HOLDERS
WILL BE ISSUED DURING TABLE TOP
EXERCISE.**



PREPAREDNESS STEPS FOR MOCK EXERCISE

ON OCCOURANCE OF AN INCIDENT ISSUE OF CODE WORD FOR EOC MEETING



**ALL ASSETS AND PERSONNEL
REPORT TO STAGING AREA**



**DAMAGE ASSESMENT
CARRIED OUT**

EARTHQUAKE



TASKS ASSIGNED

OP CDRS BRIEFED RESOURCES
ALLOCATED IAP MADE
IRTS/ TF NOMINATED AREA WISE
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TF LAUNCHED SEARCH AND RESCUE OPS COMMENCE



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EVACUATION PLANNED IF NEEDED

SECONDARY DISASTERS



RELIEF CAMPS /SHELTERS OPENED



**DEMOBLISE ON SITUATION COMING UNDER
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OR
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DEBRIEFING & FEEDBACK SESSION



MOCK EXERCISE -EARTHQUAKE
SUGGESTED SIMULATIONS

MOCK EXERCISE EARTHQUAKE SIMULATIONS

Sl. No.	Event	Simulation and Follow Up Action							
1	Simulation of Earthquake	1. Indication by blowing of sirens and by observers. 2. To be confirmed from District Control Room over telephone/mobile							
2	Casualties (As per situation)	<u>Human Beings</u> <table><tr><td>Killed 2500</td><td>Injured 20000</td><td>Untraced 5400</td><td>Displaced 5 lac</td></tr></table>				Killed 2500	Injured 20000	Untraced 5400	Displaced 5 lac
Killed 2500	Injured 20000	Untraced 5400	Displaced 5 lac						
3	Actual Evacuation of Human Beings for treatment.	100 dummies by Civil Defence/NGOs/Volunteers, to act as fatal injuries and injured. Coordination by respective districts.							
4	Relief Camp	Two relief camp to be established (Minimum 100 persons, including old, women and children per camp.Dummies by Civil Defence/NGOs)/Volunteers from Community. Coordination by Deputy Comdt General, Civil Defence.							

5	Water	Arrangement of water tankers/ other means at Relief Camp and ICP by Municipal Corporation/DC of districts
6	Medical (to be coordinated by Chief Medical Officer)	a) All ambulances within the district to be mobilised. In addition State Govt. be prepared to send additional ambulances from neighbouring districts. b) Preparing all hospitals for creating bed capacity to accommodate victims. c) Temporary PHC to be established at Relief Camps and at critical areas.
7	Supplies	One time meal for the evacuated people in relief camps & for casualties to be arranged at district level.) Coordination by Distt Supply Officer)
8	Equipment	Heavy equipment like excavators, dumpers, and road rollers to be identified and one each per district to be moved to the critical area in the district.(Coord by Municipal Corpn/ DC).

9	Transport	Buses/Trucks for evacuation of people to relief camp (to be arranged by RTO District.
10	Electricity	One generator to be moved to each of the Relief Camp & for ICP.(by Electricity Deptt of District)
11	Communications(to be arranged by Distt Communication Officer)	a) EOC and ICP to be in communication with Tehsildars, Relief Camps, Hospitals, State Secretariat. b) Redundancy in communication network.
12	Sewerage & Sanitation	Moving toilets and bathrooms to be arranged at ICP and Relief Camps, by Municipal Corporation/ DC respective districts.

FORMAT FOR SELF ASSESSMENT BY THE STAKEHOLDERS.

1. Name of the Organisation. Type
2. of Support Function.
(Eg. Medical, Relief, Search & Rescue) Name
3. of Team Leader.
4. Designation in Parent Organisation. Contents
5. of First Message about Incident received and Communication mode.
6. Source of Information. (Who sent it) Time
7. Information received.
8. Starting Time from the Base Station / Organisation. Time
9. of arrival at ICP / Disaster Site.
10. Distance between Base Station and ICP / Disaster Site (in Km)

FORMAT FOR SELF ASSESSMENT BY THE STAKE HOLDERS.

11. Manpower Resources available and how much manpower carried.
12. Equipment carried.
13. Material brought.
14. Vehicle brought (Give type)
(a) For use of ICP.
(b) Self use.
15. Difficulties faced.
16. Support Agencies Available.
17. What was your Contribution in the Mock Drill? Learning
18. from Mock Drill.
19. Suggestions for Improvement.
20. Any other information. you would like to convey.

FORMAT FOR REPORT BY OBSERVER

1. Emergency Support Function
(e.g Search & Rescue, Medical)
2. Nodal Officer (Name)
3. Observer (Name, Address and Tel. No.)
5. Immediate Response (Give brief details)
6. Duties undertaken by the Team Leader/s.
(Give details of duties)
7. Resources Available (All resources made available)
8. Utilization of Resources
9. Observers Comments (Frank Opinion, Good practices and weakness/shortcomings noticed)



RUN UP ACTIVITIES

- Capacity Development Programs – IRS & Mock Exercise.
- ☐ Update all EOC,s
- ☐ Procure wireless sets and Loud hailers & practice on that.
- ☐ Ensure all satellite phones are functional.
- ☐ Orientation & Sensitization Programs
 - ❖ Govt Deptts , RWAs, slum areas.
- ☐ Mock Drills to be conducted at:
 - ❖ Schools & Colleges.
 - ❖ Malls.
 - ❖ Hotels/Restaurants
 - ❖ Shopping Bazaars.
 - ❖ Hospitals.
 - ❖ RWAs/residential areas.



RUN UP ACTIVITIES

- Competitions – Painting, debates, road shows, etc.
- Drawing out Disaster Management Plans at District, RWA Hotels/restaurants, shopping area, hotels. Cinema halls/cineplexes schools, office complexes.
- Media Campaign through State /District authorities
 - ❖ Print Media through State
 - ❖ Electronic Media through local channels.
 - ❖ Through SMSs – Publicity Deptts – Tap the Service providers.
 - ❖ Get banners and identification jackets for the stake holders.
- ❖ Following banners to be made:-
 - SEOC/ DEOC
 - STAGING AREA & RELIEF CAMP
 - INCIDENT COMAND POST & MEDICAL AID POST



DECISIONS TO BE TAKEN

SITES FOR MOCK EXERCISE ONE

GOVT OFFICE.
ONE RESIDENTIAL AREA.
ONE SHOPPING COMPLEX/MALL.
ONE SCHOOL/COLLEGE.
ONE HOSPITAL.

IRS NOTIFICATION HP

Responsible Officer:	Chief Secretary to the Govt. of HP
Incident Commander:	ACS/Principal Secretary (Rev-DM)
Safety Officer:	Director General of Police
Liaison Officer:	Special/Adtl./Joint Secretary, DIM
Information & Media Officer:	Director of Inf. & Public Relation
Operations Wing Head:	ACS/Principal Secretary, Home Deptt.
a. Rescue & Response Branch	
i. Natural Disasters	Director General, Civil Defence, Home Guards and Fire
ii. Epidemic & Health	Director, Health & Family Welfare
iii. Human Induced Disaster	Additional DGP (Law & Order)
b. Transport Branch	Secretary GAD & Commissioner
(Road, rail, Air, etc)	Transport.
Planning Wing Head:	Advisor Planning, HP
a. Resource Unit:	Joint Director, Planning
b. Documentation Unit:	Deputy/Joint Secretary, DM Cell
c. Logistics Wing Head:	Director, Civil Supplies
d. Service Branch:	Director, Health & Family Welfare,
i. Communication	SP Police Communications at DGP Office
ii. Medical	Joint/Additional Director H & F Welfare
iii. Food Supplies	Joint/Additional Director, Civil Supplies
iv. Water/sanitation	Engineer in Chief, IPH
b. Support Branch:	ACS/Principal Secretary, PWD
Resource Provisioning	Chief Engineer (Roads), PWD

IRS NOTIFICATION HP

b.	Support Branch:	ACS/Principal Secretary, PWD
	Resource Provisioning	Chief Engineer (Roads), PWD
	i. Facilities Unit	Chief Engineer (Buildings), PWD
	ii. Ground Support	Chief Engineer (PR) PWD
8.	Finance Wing Head:	Special Secretary (Finance), HP
	c. Time Unit	Under/Deputy Secretary, Finance Deptt
	d. Relief/Compensation	Under/Deputy Secretary, Finance/Revenue Deptt/Revenue
	e. Procurement	Additional/Special Secretary, Finance Deptt

THANK YOU

SUGGESTED ROLES OF KEY STAKE HOLDERS

ROLE OF INCIDENT COMMANDER (IC)

1. Over-all commander of the incident . He is accountable for all actions taken under his command.
2. Gets the Incident Command Post (ICP) established after the emergency is declared 'off-site'. It should not be too near the incident site, to get overwhelmed , nor too far, as not be able to control the incident. Ensures redundancy in communications.
3. After visit to the incident site, meeting of all ESF takes place at ICP and decision taken by IC. He gets Incident Action Plan made.
4. Here reports to DDMA/SDMA on action taken and further requests, if any.
5. All requests for resources come to IC and he/she issues instructions to the ESF representative, who gets the work done through their own heads of deptt. Similarly, all resources first report at the ICP, before they are further dispatched to the incident site.
6. Evacuation of the people likely to be affected is ordered by him. He will also ensure setting up of the Temporary Relief Camp, earmark a Commandant of the Camp, who ensures water, food, first aid & sanitation.
7. He is the face of Govt and interacts with the media and relatives/public representatives periodically.
8. Responsible for deactivation and making of AAR.

ROLE OF POLICE

1. One of the first responders. SSP/DySP at ICP.
2. Cordons the incident site, and ensures Law and Order.
3. Traffic Control, ensures free run for first responders.
4. Assistance to first responders.
5. Assist in casualty evacuation and evacuation of people from affected area/s.
6. Investigation of the incident.
7. Handing over dead bodies to the relatives/friends, after proper identification and 'panchnama'.
8. Escorting VIPs, during their visit to the incident site???

ROLE OF FIRE SERVICES

1. One of the first responders. Div/Distt Fire Officer at the ICP.
2. First dispatch for immediate response and analysis of situation.
3. Fire Fighting, ensuring minimum collateral damage.
4. Evacuation of the people trapped in fire, under debris and other places.
5. Additional fire tenders sent by Control Room, from nearest fire station/other fire stations in near vicinity.
6. It is ensured that right type of fire tenders, like foam/water/other component are only sent. (HAZMAT and high rise vehicles, are sent, if applicable.
7. Ensure that all fire fighters near incident site are wearing PPE, including team leaders and drivers.

ROLE OF MEDICAL SERVICES

1. One of the first responders. DMO/Addl DMO at ICP.
2. Emergency Medical Team first report at ICP and build on the First Aid Post at the SAR site.
3. All casualties/injured are first brought to first aid post, TRIAGE is carried out, prioritizing the injured, by labeling red, yellow, green and black ribbons. TRIAGE done only by qualified doctors.
4. Evacuation of injured as per priority, by ambulances, fitted with life support system.
5. Creation of surge capacity in the near-by hospitals, as per the condition of the casualties and specialities available in the hospital.
6. Psycho-social care of patients.

ROLE OF SERVICE PROVIDERS

1. Each service provider, like electricity, water, telecommunication/sewerage to send a Decision maker at the ICP.
2. Electricity is cut off initially. State Electricity Board to provide temporary electricity with generator/ inflatable lighting tower. Electricity DM team from State Electricity Board to rush to site and after checking, restore the electricity when all clear is given.
3. Water Deptt to provide water for the fire & emergency services, two drinking water bowzers, one each for ICP and Relief Camp.
4. BSNL/MTNL to provide redundancy in communication by making available WLL and Satellite phones.
5. Municipal Corporation to provide heavy engg equipment, like JCB, dozer, road roller, dumper and other DM equipment. It also provides moving toilets, if relief camp is established in the open.

ROLE OF CIVIL DEFENCE/HOME GUARDS/NGOs

1. They are motivated volunteers.
2. They should be trained in DM role during response, like policing, first aid, fire fighting or distributing relief
3. They should be deployed under the overall supervision of Police, Medical Services, Fire Services or the Supply Deptt.
4. All volunteers should wear PPE , where required, while approaching the incident site.
5. They can also be gainfully deployed for trauma counselling.

ANNEXURE B-II

5th STATE LEVEL MOCK EXERCISE ON EARTHQUAKE - HIMACHAL PRADESH

ORIENTATION & COORDINATION CONFERENCE - 03 JULY 2019

**Maj Gen Dr. V K Naik, KC, AVSM
SENIOR CONSULTANT
NATIONAL DISASTER MANAGEMENT AUTHORITY**

SEQUENCE

ORIENTATION CONFERENCE
TABLE TOP EXERCISE
MOCK DRILL
SUMMING UP AND FEEDBACK SESSION

PREVIEW

13. Objectives.
14. Vulnerability of Himachal Pradesh.
15. Scope.
16. Sequence and methodology .
17. Suggested Participants.
18. Exercise Organizing Committee.
19. Scenario Building by HSDMA.
20. Detailment of Observers (for Mock Exercise only).
21. Over view - IRS.
22. Documentation.
23. Decisions to be taken.
24. Run up activities.

OBJECTIVES

7. To review **Disaster Management Plans** of the State.
8. To evaluate the **Emergency Response Plan** and **Standard Operating Procedures** of the District/s .
9. To highlight the **Roles and Responsibilities** of various Stakeholders.
10. Enhance Coordination among **Emergency Support Functions** of various stakeholders at District level.
11. To generate **Public Awareness** by involvement of **LGBs, NGOs and Community**.
12. Identify the gaps in the existing Resources, Manpower, Communications etc

DISASTER VULNERABILITY - HIMACHAL PRADESH

HIMACHAL PRADESH is vulnerable to multiple hazards:-

Earthquake

Landslides/ Avalanches

Floods

Fire

Chemical/ Industrial

Biological

Terrorist Attack

DISASTER VULNERABILITY - HIMACHAL PRADESH

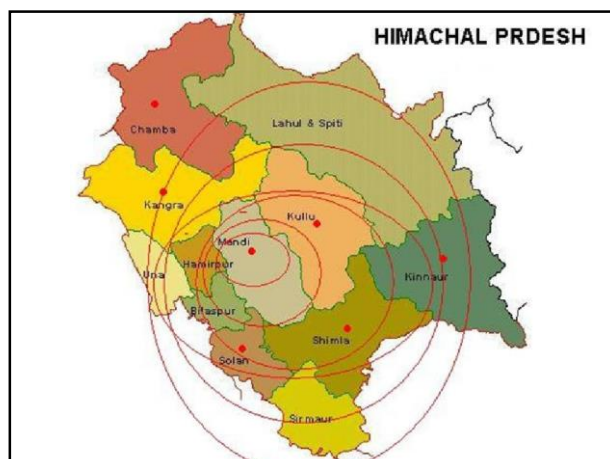
HIMACHAL PRADESH is vulnerable to multiple hazards:-



SCOPE

Table Top and Mock Exercise will be restricted to planning and response at the State/District Level with additional assistance from Central Government resources.

ALL DISTRICTS WILL PARTICIPATE



SCENARIO

4. Occurrence of an earthquake of magnitude 8 on Richter Scale in Mandi District of Himachal Pradesh will be depicted with epicenter of the earthquake between Sunder Nagar and Mandi towns. Time of the event 0000 Hours
5. In addition, the extent of damage in the affected districts, including number of casualties, roads and arteries which cannot be used and the extent of damage to the Services, like electricity, water and tele communication will be depicted site-wise by the observers.
6. To increase the level of difficulty in response, the contingencies such as bad weather conditions and heavy rain fall will also be played up by observers. (Air effort for response may not be available)

STATES LIKELY TO BE AFFECTED

- ▣ Himachal Pradesh - all districts
- ▣ Chandigarh
- ▣ Punjab
- ▣ Haryana
- ▣ Jammu & Kashmir
- ▣ Uttarakhand.

IMPLICATIONS FOR DISASTER RESPONSE OPERATIONS IN HP

7/26/2019

10

SEQUENCE

Orientation & Coordinating Conference, MAIN ISSUES

- Delineating objectives of The Table Top & Mock Exercise.
- Finalising the Scope of Table Top and Mock Exercise.
- Briefing on Method of Conduct of Table Top and Mock Exercise
- Participants
- Media Coverage.

TABLE TOP EXERCISE AIM

- ✍ TO TEST THE DM PLANS OF DISTRICTS
- ✍ TO EXERCISE THE IRTs IN PLG EFFICIENT DISASTER RESPONSE
- ✍ FOCUS ON PLANS OF LINE DIRECTORATES IN PROVIDING SUPPORT TO THE MAIN PLAN FOR UNDERTAKING EMERGENCY SUPPORT FUNCTIONS.

METHODOLOGY - TABLE TOP EXERCISE.

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- Precursor to Mock Exercise.
- IRTs under the RO of each district to participate through video conferencing.
- Presentation of plans by selected districts.
- Presentation of plans by selected line departments.
- Initially situations at the state level are discussed reactions at the state level are sought.
- Subsequently specific situations at District level are discussed –
 - The DC (RO) and other Stakeholders like SSP, District Health Officer, Fire Officer, Public Services Heads, SAR Team Leader, Communication, Civil Defence, Home Guard, Red Cross, RTO, NGOs Public Relations Officer etc are expected to respond.

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METHODOLOGY - TABLE TOP EXERCISE

DETAILS OF COORDINATION AND SAFETY ARE DISCUSSED.

THE GAPS ARE IDENTIFIED AND REMEDIAL MEASURES TDISCUSSED

DISTRICT ROS TO BRING OUT CRITICALITIES IN DISASTER RESPONSE IN THEIR AREAS OF RESPONSIBILITY, BASED UPON THE DISASTER SCENARIO, AND INDICATE CONTINGENCY PLANS, IF ANY, TO MANAGE SUCH CRITICALITIES.

RELEVANT LINE DEPARTMENTS TO BRING OUT LIKELY DAMAGE TO INFRASTRUCTURE – RAIL, ROAD, BRIDGES, HOSPITALS, COMMUNICATIONS SYSTEMS AND DISCUSS THEIR PLANS TO RESTORE NORMALCY IN SHORTEST TIME FRAME.

THE SDMA / RO TO GIVE AN OUT LINE OF NEED OF ASSISTANCE FROM THE CENTRAL GOVERNMENT IN THE GIVEN SCENARIO FOR ADVANCE PLANNING

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- 14.DG Police.
- 15.Spl Secretary, Disaster Management.
- 16.It Secretary/Director, Disaster Management.
- 17.Secretary, Revenue.
- 18.Secretary, Health.
- 19.Secretary, Industries.
- 20.Representatives from PWD&CPWD
- 21.Head of Fire Services.
- 22.Director/ head DM Cell HIMACHAL PRADESH Administration Staff College.
- 23.Commandant CAPF Bns & (NDRF).
24. Army and Air Force Representatives within the State.
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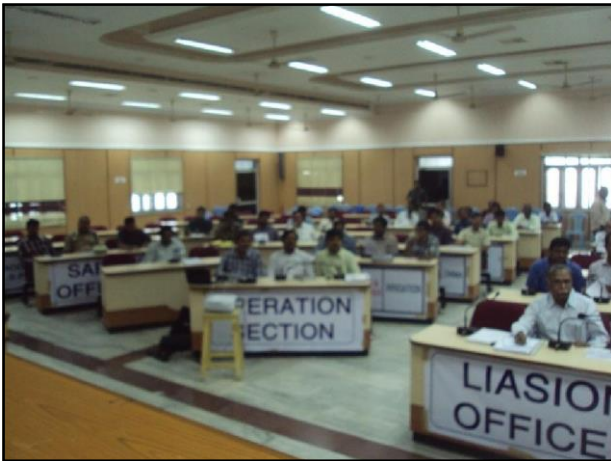
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ON OCCOURANCE OF AN INCIDENT ISSUE OF CODE WORD FOR EOC MEETING



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REPORT TO STAGING AREA**



**DAMAGE ASSESMENT
CARRIED OUT**

EARTHQUAKE



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CONTROL
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SUGGESTED SIMULATIONS

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3	Actual Evacuation of Human Beings for treatment.	100 dummies by Civil Defence/NGOs/Volunteers, to act as fatal injuries and injured. Coordination by respective districts.
4	Relief Camp	Two relief camp to be established (Minimum 100 persons, including old, women and children per camp. Dummies by Civil Defence /NGOs)/Volunteers from Community. Coordination by Deputy Comdt General, Civil Defence..

5	Water	Arrangement of water tankers/ other means at Relief Camp and ICP by Municipal Corporation/DC of districts
6	Medical (to be coordinated by Chief Medical Officer)	d) All ambulances within the district to be mobilised. In addition State Govt. be prepared to send additional ambulances from neighbouring districts. e) Preparing all hospitals for creating bed capacity to accommodate victims. f) Temporary PHC to be established at Relief Camps and at critical areas.
7	Supplies	One time meal for the evacuated people in relief camps & for casualties to be arranged at district level.) Coordination by Distt Supply Officer)
8	Equipment	Heavy equipment like excavators, dumpers, and road rollers to be identified and one each per district to be moved to the critical area in the district.(Coord by Municipal Corpn/ DC).

9	Transport	Buses/Trucks for evacuation of people to relief camp (to be arranged by RTO District.
10	Electricity	One generator to be moved to each of the Relief Camp & for ICP.(by Electricity Deptt of District)
11	Communications(to be arranged by Distt Communication Officer)	c) EOC and ICP to be in communication with Tehsildars, Relief Camps, Hospitals, State Secretariat. d) Redundancy in communication network.
12	Sewerage & Sanitation	Moving toilets and bathrooms to be arranged at ICP and Relief Camps, by Municipal Corporation/ DC respective districts.

FORMAT FOR SELF ASSESSMENT BY THE STAKEHOLDERS.

1. Name of the Organisation. Type
2. of Support Function.
(Eg. Medical, Relief, Search & Rescue) Name
3. of Team Leader.
4. Designation in Parent Organisation. Contents
5. of First Message about Incident received and Communication mode.
6. Source of Information. (Who sent it) Time
7. Information received.
8. Starting Time from the Base Station / Organisation. Time
9. of arrival at ICP / Disaster Site.
10. Distance between Base Station and ICP / Disaster Site (in Km)

FORMAT FOR SELF ASSESSMENT BY THE STAKE HOLDERS.

11. Manpower Resources available and how much manpower carried.
12. Equipment carried.
13. Material brought.
14. Vehicle brought (Give type)
(c) For use of ICP.
(d) Self use.
15. Difficulties faced.
16. Support Agencies Available.
17. What was your Contribution in the Mock Drill? Learning
18. from Mock Drill.
19. Suggestions for Improvement.
20. Any other information. you would like to convey.

FORMAT FOR REPORT BY OBSERVER

4. Emergency Support Function
(e.g Search & Rescue, Medical)
5. Nodal Officer (Name)
6. Observer (Name, Address and Tel. No.)
10. Immediate Response (Give brief details)
11. Duties undertaken by the Team Leader/s.
(Give details of duties)
12. Resources Available (All resources made available)
13. Utilization of Resources
14. Observers Comments (Frank Opinion, Good practices and weakness/shortcomings noticed)



RUN UP ACTIVITIES

- Capacity Development Programs – IRS & Mock Exercise.
- Update all EOC,s
- Procure wireless sets and Loud hailers & practice on that.
- Ensure all satellite phones are functional.
- Orientation & Sensitization Programs
 - Govt Deptts , RWAs, slum areas.
- Mock Drills to be conducted at:
 - Schools & Colleges.
 - Malls.
 - Hotels/Restaurants
 - Shopping Bazaars.
 - Hospitals.
 - RWAs/residential areas.



RUN UP ACTIVITIES

- Competitions – Painting, debates, road shows, etc.
- Drawing out Disaster Management Plans at District, RWA Hotels/restaurants, shopping area, hotels. Cinema halls/cineplexes schools, office complexes.
- Media Campaign through State /District authorities
 - Print Media through State
 - Electronic Media through local channels.
 - Through SMSs – Publicity Deptts – Tap the Service providers.
 - Get banners and identification jackets for the stake holders.
- Following banners to be made:-
 - SEOC/ DEOC
 - STAGING AREA & RELIEF CAMP
 - INCIDENT COMAND POST & MEDICAL AID POST



DECISIONS TO BE TAKEN

SITES FOR MOCK EXERCISE ONE

GOVT OFFICE.
ONE RESIDENTIAL AREA.
ONE SHOPPING COMPLEX/MALL.
ONE SCHOOL/COLLEGE.
ONE HOSPITAL.

IRS NOTIFICATION HP

Responsible Officer:	Chief Secretary to the Govt. of HP
Incident Commander:	ACS/Principal Secretary (Rev-DM)
Safety Officer:	Director General of Police
Liaison Officer:	Special/Adtl./Joint Secretary, DIM
Information & Media Officer:	Director of Inf. & Public Relation
Operations Wing Head:	ACS/Principal Secretary, Home Deptt.
a. Rescue & Response Branch	
i. Natural Disasters	Director General, Civil Defence, Home Guards and Fire
ii. Epidemic & Health	Director, Health & Family Welfare
iii. Human Induced Disaster	Additional DGP (Law & Order)
b. Transport Branch	Secretary GAD & Commissioner
(Road, rail, Air, etc)	Transport
Planning Wing Head:	Advisor Planning, HP
a. Resource Unit:	Joint Director, Planning
b. Documentation Unit:	Deputy/Joint Secretary, DM Cell
c. Logistics Wing Head:	Director, Civil Supplies
d. Service Branch:	Director, Health & Family Welfare,
i. Communication	SP Police Communications at DGP Office
ii. Medical	Joint/Additional Director H & F Welfare
iii. Food Supplies	Joint/Additional Director, Civil Supplies
iv. Water/sanitation	Engineer in Chief, IPH
b. Support Branch:	ACS/Principal Secretary, PWD
Resource Provisioning	Chief Engineer (Roads), PWD

IRS NOTIFICATION HP

b.	Support Branch:	ACS/Principal Secretary, PWD
	Resource Provisioning	Chief Engineer (Roads), PWD
	i. Facilities Unit	Chief Engineer (Buildings), PWD
	ii. Ground Support	Chief Engineer (PR) PWD
8.	Finance Wing Head:	Special Secretary (Finance), HP
	c. Time Unit	Under/Deputy Secretary, Finance Deptt
	d. Relief/Compensation	Under/Deputy Secretary, Finance/Revenue Deptt/Revenue
	e. Procurement	Additional/Special Secretary, Finance Deptt

THANK YOU

SUGGESTED ROLES OF KEY STAKE HOLDERS

ROLE OF INCIDENT COMMANDER (IC)

9. Over-all commander of the incident . He is accountable for all actions taken under his command.
10. Gets the Incident Command Post (ICP) established after the emergency is declared 'off-site'. It should not be too near the incident site, to get overwhelmed , nor too far, as not be able to control the incident. Ensures redundancy in communications.
11. After visit to the incident site, meeting of all ESF takes place at ICP and decision taken by IC. He gets Incident Action Plan made.
12. Here reports to DDMA/SDMA on action taken and further requests, if any.
13. All requests for resources come to IC and he/she issues instructions to the ESF representative, who gets the work done through their own heads of deptt. Similarly, all resources first report at the ICP, before they are further dispatched to the incident site.
14. Evacuation of the people likely to be affected is ordered by him. He will also ensure setting up of the Temporary Relief Camp, earmark a Commandant of the Camp, who ensures water, food, first aid & sanitation.
15. He is the face of Govt and interacts with the media and relatives/public representatives periodically.
16. Responsible for deactivation and making of AAR.

ROLE OF POLICE

9. One of the first responders. SSP/DySP at ICP.
10. Cordoning the incident site, and ensuring Law and Order.
11. Traffic Control, ensures free run for first responders.
12. Assistance to first responders.
13. Assist in casualty evacuation and evacuation of people from affected area/s.
14. Investigation of the incident.
15. Handing over dead bodies to the relatives/friends, after proper identification and 'panchnama'.
16. Escorting VIPs, during their visit to the incident site???

ROLE OF FIRE SERVICES

8. One of the first responders. Div/Distt Fire Officer at the ICP.
9. First dispatch for immediate response and analysis of situation.
10. Fire Fighting, ensuring minimum collateral damage.
11. Evacuation of the people trapped in fire, under debris and other places.
12. Additional fire tenders sent by Control Room, from nearest fire station/other fire stations in near vicinity.
13. It is ensured that right type of fire tenders, like foam/water/other component are only sent. (HAZMAT and high rise vehicles, are sent, if applicable).
14. Ensure that all fire fighters near incident site are wearing PPE, including team leaders and drivers.

ROLE OF MEDICAL SERVICES

7. One of the first responders. DMO/Addl DMO at ICP.
8. Emergency Medical Team first report at ICP and build on the First Aid Post at the SAR site.
9. All casualties/injured are first brought to first aid post, TRIAGE is carried out, prioritizing the injured, by labeling red, yellow, green and black ribbons. TRIAGE done only by qualified doctors.
10. Evacuation of injured as per priority, by ambulances, fitted with life support system.
11. Creation of surge capacity in the near-by hospitals, as per the condition of the casualties and specialities available in the hospital.
12. Psycho-social care of patients.

ROLE OF SERVICE PROVIDERS

6. Each service provider, like electricity, water, telecommunication/sewerage to send a Decision maker at the ICP.
7. Electricity is cut off initially. State Electricity Board to provide temporary electricity with generator/ inflatable lighting tower. Electricity DM team from State Electricity Board to rush to site and after checking, restore the electricity when all clear is given.
8. Water Deptt to provide water for the fire & emergency services, two drinking water bowzers, one each for ICP and Relief Camp.
9. BSNL/MTNL to provide redundancy in communication by making available WLL and Satellite phones.
10. Municipal Corporation to provide heavy engg equipment, like JCB, dozer, road roller, dumper and other DM equipment. It also provides moving toilets, if relief camp is established in the

ROLE OF CIVIL DEFENCE/HOME GUARDS/NGOs

6. They are motivated volunteers.
7. They should be trained in DM role during response, like policing, first aid, fire fighting or distributing relief
8. They should be deployed under the overall supervision of Police, Medical Services, Fire Services or the Supply Deptt.
9. All volunteers should wear PPE, where required, while approaching the incident site.
10. They can also be gainfully deployed for trauma counselling.

ROLE OF SDRF/NDRF

1. They are highly trained force in DM.
2. They are self contained and operate independently and should be given areas for deployment which are worst affected.
3. NDRF operates in teams. Each team is self contained in hand held equipment for collapsed structure search and rescue, medical first response and have trained dogs with handlers, doctor with paramedic staff, structural engineers and search and rescue teams. Each battalion has six companies, each company has three teams and each team has 45 men. All units are trained in CBRN too and are equipped accordingly. Each team also has adequate boats (108) for rescue during floods.
4. Request for NDRF team can be made directly by the Collector/DC directly to nearest Comdt NDRFBn, in case of disaster.

ROLE OF ARMED FORCES/PMF

1. They are secondary responders. (Armed forces get deployed under the provision of Aid to Civil Authorities)
2. They will also function under the RO and be deployed as per the priorities worked out at SEOC/DEOC
3. They should be given the task to be performed by them and not told how to get it done, which should be left to their officers to manage.
4. They would carry out the assigned task surgically and thereafter hand over the situation back to the civil authorities.
5. Their deployment should be as a last resort and they should be released as soon as the task is completed.

6. PLANNING AND COORDINATION WITH ARMED FORCES AND CAPFS SHOULD BE PART OF SDMP/DDMP

ANNEXURE B-III

INCIDENT RESPONSE SYSTEM KEY CONCEPTS & SALIENT FEATURES

Maj Gen Dr V K Naik, Kirti Chakra, AVSM.
SENIOR CONSULTANT
NDMA, NEW DELHI
03 JULY 2019

AIM TO GIVE AN OVERVIEW OF THE INCIDENT RESPONSE SYSTEM

SCOPE

- PLANNING FOR RESPONSE - NATIONAL DISASTER MANAGEMENT PLAN - 2016.
- WHAT IS AN IRS ?
- THE SHORTCOMINGS OF INDIAN RESPONSE SYSTEM AND NEED OF IRS
- EVOLUTION OF IRS IN INDIA
- KEY CONCEPTS AND SALIENT FEATURES OF IRS
 - IRS ORGANISATION
 - EMERGENCY OPERATION CENTER
 - INCIDENT COMMAND POST

DISASTER

- **Disaster**, means a catastrophe, mishap, calamity or grave occurrence in any area arising from natural or manmade causes, or by accident or negligence which results in substantial loss of life or human suffering or damage to, and destruction of property, or damage to, or degradation of, environment and is of such nature or magnitude as to be beyond the coping capacity of the community of the affected area.

DISASTER MANAGEMENT

- Disaster Management . Means a continuous and integrated process of:-
 - Planning
 - Organizing.
 - Coordinating
 - Implementing Measures for expedient:-
Preventing, mitigating, capacity building
Preparedness Response, Evacuation,
Rescue, Relief and Rehabilitation

WHY IS A RESPONSE SYSTEM NEEDED ? WHAT SHOULD BE THE QUALITY OF DISASTER RESPONSE ?

HOW TO PLAN FOR EFFICIENT & EFFECTIVE DISASTER RESPONSE ?

SHORTCOMINGS IN DISASTER RESPONSE

SHORTCOMINGS – RESPONSE

- Lack of accountability because of ad-hoc and emergent nature of arrangements and no prior training for effective performance;
- Lack of an orderly and systematic planning process;
- Unclear chain of command and supervision of response activity;
- Lack of proper communication, inefficient use of available resources, use of conflicting codes and terminology and no prior communication plan;

SHORTCOMINGS – RESPONSE

- Lack of predetermined method / system to effectively integrate inter-agency requirements into the disaster management structures and planning process;
- Lack of coordination between the first responders and individuals, professionals and NGOs with specialized skills during the response phase; and
- Lack of use of common terminology for different resources resulting in improper requisitioning and inappropriate resource mobilization etc;

*THE IRS IS AN IMPORTANT TOOL
FOR MINIMIZING LOSS OF LIFE
AND PROPERTY BY
“STRENGTHENING AND
STANDARDISING” THE DISASTER
RESPONSE MECHANISM IN INDIA.*

IRS KEY CONCEPTS & SALIENT FEATURES

Key Concepts

- Responsible Officer
- Delegation of authority
- Emergency Operation Centers (EOC)
- Emergency Support Functions (ESFs)
- Onsite & Offsite Response Mechanisms

IRS Provides Direction Through Delegation of Authority & Responsibility



- The Responsible Official (RO) establishes policy, direction, parameters, and delegates authority to the Incident Commander (IC)
- RO generally not at scene all the time but maintains contact as necessary.

IRS Organisation

- IRS functions through Incident Response Teams (IRTs) in the field.
- In line with our administrative structure and DM Act 2005, Responsible Officers (ROs) have been designated at the State and District level as overall in charge of the incident response management.
- The RO may delegate responsibilities to the Incident Commander (IC), who in turn will manage the incident through IRTs.
- **The IRTs will be pre-designated at all levels; State, District, Sub-Division and Tehsil/Block.**

IRS Organisation(contd)

- On receipt of Early Warning, the RO will activate IRTs .
- In case a disaster occurs without any warning, the local IRT will respond and contact RO for further support, if required.
- A Nodal Officer (NO) for proper coordination between the District, State and National level in activating air support for response.
- Apart from the RO and Nodal Officer (NO), the IRS has two main components.
 - Command Staff
 - General Staff

ESFs (MAJOR TASKS FOR RESPONSE)

- EARLY WARNING, MAPS ,SATL INPUTS, INFO DESSIMINATION
- EVAC OF PEOPLE AND ANIMALS
- SEARCH AND RESCUE OF PEOPLE AND ANIMALS
- MEDICAL CARE
- DRINKING WATER,SANITATION FACILITIES,PUBLIC HEALTH
- FOOD AND ESSENTIAL SUPPLIES

ESFs (MAJOR TASKS FOR RESPONSE)

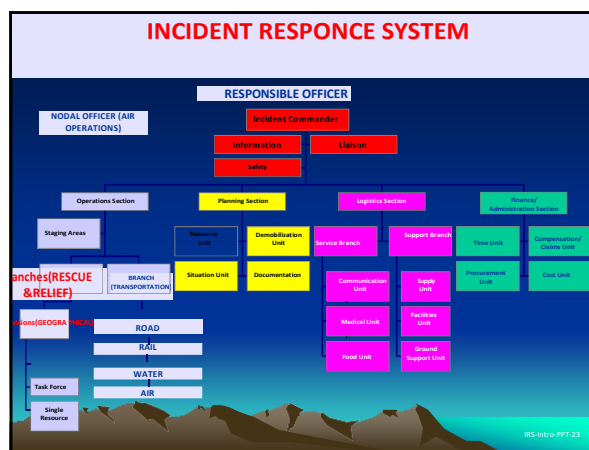
- COMMUNICATION
- POWER
- FUEL
- HOUSING AND TEMPORARY SHELTER
- TRANSPORTATION
- RELIEF LOGISTICS & supply chain management
- Disposal of animal carcasses

ESFs (MAJOR TASKS FOR RESPONSE)

- FODDER FOR LIVESTOCK
- REHABILITATION AND SAFETY OF LIVE STOCK
- DATA COLLECTION AND MGT
- RELIEF EMPLOYMENT
- MEDIA RELATIONS

FUNCTIONAL RESPONSIBILITIES - IRS

RESPONSIBLE OFFICER	• PRIMARILY RESPONSIBLE FOR EFFECTIVE RESPONSE
COMMANDER	• OVERALL INCHARGE OF THE INCIDENT RESPONSE TEAM AND ITS EFFECTIVE FUNCTIONING
OPERATIONS	• DIRECT AND SUPERVISE ALL TACTICAL ACTIONS
PLANNING	• COLLECT/ANALYZE DATA, WORKOUT REQUIRED RESOURCES AND PREPARE ACTION PLAN
LOGISTICS & FINANCE	• PROVIDE LOGISTICS SUPPORT, PROCUREMENT AND COST ACCOUNT



Command Staff

- The Command Staff consists of
 - Incident Commander (IC)
 - Information & Media Officer (IMO)
 - Safety Officer (SO)
 - Liaison Officer (LO).
- They report directly to the IC and may have assistants.
- The Command Staff may or may not have supporting organisations under them.
- Main function - to assist the IC in the discharge of his functions

General Staff

- General Staff - three components
 - Operations Section (OS)
 - Planning Section (PS)
 - Logistics Section (LS)

General Staff Operations Section (OS)

- The OS is responsible for directing the required tactical actions to meet incident objectives.
- Management of disaster may not immediately require activation of Branch, Division and Group.
- Expansion of the OS depends on
 - enormity of the situation
 - number of different types and kinds of functional Groups required in the response management.

General Staff - Planning Section (PS)

- Responsible for
 - collection, evaluation and display of incident information
 - maintaining and tracking resources
 - preparing the Incident Action Plan (IAP) and other necessary incident related documentation.
- They will assess the requirement of additional resources, propose from where it can be mobilised and keep IC informed.
- Preparation - demobilisation plan.

General Staff - Logistics Section (LS)

- Responsible for providing facilities, services, materials, equipment and other resources in support of the incident response.
- The Section Chief **participates in development and implementation of the IAP**, activates and supervises Branches and Units of his section
- **Finance Branch the LS** in order to ensure prompt and smooth procurement and supply of resources as per financial rules.

EMERGENCY OPERATION CENTER

- One Sr. Administrative Officer as EOC in-charge having experience in DM with required assistants
- Representation of all concerned line departments with authority to quickly mobilise their resources
- Adequate space with proper infrastructure to accommodate the participating agencies and departments
- Communication facilities with last mile connectivity
- A vehicle mounted with HF, VHF and satellite telephone for deployment in the affected site to provide immediate connectivity with the headquarters and ICP

EMERGENCY OPERATION CENTER

- A representative of central teams (NDRF, Armed Forces) whenever they are deployed to integrate their resources, expertise and to resolve conflicts that may arise during the response effort
- Provision and plan for dovetailing the NDRF, Armed Forces communication capabilities with the local communication set up.
- There will be proper plan so that all are able to connect with each other in case of large scale disasters or failure of the local communications systems;

EMERGENCY OPERATION CENTER

- Map depicting affected site, resources deployed, facilities established like Incident Command Post, Staging Area, Incident Base, Camp, Relief Camp, Helibase, Helipad, etc.
- DM plans of all line departments
- DM plans of the State and the District
 - Directories with contact details of all emergency services and nodal officers
 - Connectivity with all District headquarters and police stations;
 - Database of NGOs working in different geographical areas;
 - Demographic details of the State and Districts;

EMERGENCY OPERATION CENTER

- Online / Web based DSS with the availability of at least the following components:
 - Standardisation of Command Structure with the details of the earmarked and trained personnel in IRS;
 - Proactive planning facilities;
 - Comprehensive resource management system;
 - Geographic Information System (GIS) for decision support; and
 - □ Modeling capability for predicting casualties and resources for large scale incidents including CBRN emergencies.
- Socio-economic, demographic and land use planning;
- Resource inventories of all line departments and connectivity with database of India
- Disaster Resource Network (IDRN), India Disaster Knowledge Network (IDKN) and □ Corporate Disaster Resource Network (CDRN);

ESF & IRS

OPERATIONS SEC

Search & Rescue Fire
Fighting Evacuation
Law & Order

PLANNING SEC

DAMAGE ASSESSMENT AND RESPONSE
HELP LINE
FORECASTING

LOGISTICS

Medical Response & Trauma Counseling
Communication
Food Shelter
Equipment Support, Debris and Road Clearance & Sanitation.
Water supply
Electricity
Transport.



EMERGENCY SUPPORT FUNCTIONS

No	Emergency Support Function	Nodal Officer	Support Agencies
1.	Search & Rescue, Fire Fighting	District Fire Services	Police Deptt, CD & HG Teams & teams ex Identified Units.
2.	Evacuation	DC /Industrial unit/s	Police Deptt, Fire Deptt, CD & HG
3.	Law & Order	CP	CD & HQ
4.	Medical Response & Trauma Counseling.	CMO/Civil Surgeon	Hospitals in District, Red Cross, NGOS
5.	Communication	Distt Telecom Officer	BSNL, Private Telecom Service Providers, Mobile Phone Operators.

6.	Relief. A. Food B. Shelter	Revenue Deptt.	NGOs, Corporate Sector, Community
7.	Equipment Support, Debris and Road Clearance & Sanitation.	PWD/Army/BRO	-
8.	Water supply	Water Works Deptt	NGOs.
9.	Electricity	State Electricity Board	Service Providers.
10.	Transport.	RTO	Municipal Corporation
27.	Help Lines.	Revenue Deptt/ Public Relation Offr/Industrial units	Deptt. of Information & Publicity, AIR, Doordarshan, Private TV Channels, UNI, Press, PTI, PIB.

SUGGESTED DETAILMENT OF OBSERVERS & FACILITATORS FOR MOCK EXERCISE AMARNATH YATRA		
SL. No.	Event	Observers/ Facilitators
1.	Safety Officer (of Exercise)	SP TO NOMINATE A Senior Officer
2.	Search & Rescue	SPs from other Districts to be nominated
3.	Medical/Health	CMOs from other Districts to be detailed by Secretary Health/ DG Health Services.
4.	Evaluation/Law & Order	SP
5.	Helpline & Information Dissemination	DC.
6.	Relief & Shelter	To be nominated by DC.

SUGGESTED DETAILMENT OF OBSERVERS & FACILITATORS FOR MOCK EXERCISE AMARNATH YATRA		
SL. No.	Event	Observers/ Facilitators
7.	Restoration of Essential Services (Electricity, Water, Telephones, Schools)	To be nominated by DC.
8.	Transport	To be nominated by DC
9.	Indication of villages, houses and infrastructure affected by the AMARNATH YATRA to be indicated by Facilitators.	
10.	State Government/District to detail a Liaison Officer with whom NDMA will interact with, his contact details.	

8. When did the Stakeholder/ representative arrive at EOC/ ICP.
9. Manpower Resources available and how much manpower carried to ICP.
10. Equipment Material Carried.
11. Vehicle brought (give types)
 - (a) For use of EOC/ Rescue & Relief Work.
 - (b) Self Use.
12. Difficulties faced.
13. Support Agencies available.
14. What was your contribution in the Mock Drill?
15. Learning from Mock Drill.
16. Suggestions for improvement.
17. Any other information you would like to convey.

FORMAT FOR REPORT BY OBSERVER

1. Emergency Support Function (e.g. Search & Rescue, Medical)
2. Nodal Officer (Name).
3. Alternate Nodal Officer (Name).
4. Observer (Name) & Organization.
5. What was the first reaction of the Nodal Officer/ Org on receipt of information.
6. What was their initial & subsequent assessment of the situation/s.
7. Duties undertaken by the Team Leader (Give details of duties).
8. Resources Available and carried for the specific tasks.
9. Was the organization able to carry out its assigned task? How would you assess their performance
100 % Success / 75 % Success / 50 % Success / 27 % Success
10. Observers Comments (Frank Opinion, Good practices and weakness/shortcomings noticed).



ANNEXURE B-IV

TABLE TOP EXERCISE

MEGA MOCK EXERCISE ON EARTHQUAKES

IN
HIMACHALPRADESH

10th July, 2019

Maj Gen Dr. V K Naik, KC,
AVSM SENIOR CONSULTANT
NATIONAL DISASTER MANAGEMENT AUTHORITY

1. Conduct of table topex
2. Briefing on conduct of Mockex

OBJECTIVES

- To review Disaster Management Plans of the State/District.
- To incorporate IRS for Emergency Response in case of any Disaster at State and District level.
- To highlight the Roles and Responsibilities of various stakeholders involved in managing disasters as per IRS.
- To enhance Coordination and Synergize efforts of various Emergency Support Functions at the District/State Level.

ESF Function Plan at the State Level

ESF No.	ESF	Primary Agency	Secondary Agency
1.	Communication	BSNL	Police, Armed Forces, CAPFs, PSPs
2.	Public Health	Health and FW	Ayurveda
3.	Sanitation/Sewerage Disposal	UD	I & PH
4.	Power	HPSEB Ltd.	Himurja
5.	Transport	Transport	HRTC, GAD and Civil Aviation
6.	Search and Rescue	CD & HHG and Fire Services	Volunteers, Red Cross Police, NDRF, SDRF, CPMF, Army, Air Force
7.	Public Works and Engineering	HP PWD	CPWD, NHAI, MES, BRO
8.	Information and Communication	EOC (Revenue Deptt.)	IT, NIC, Eco & Stat

ESF Function Plan at the State Level

ESF No.	ESF	Primary Agency	Secondary Agency
9.	Relief Supplies	Revenue	Food and CS
10.	Food Supplies	Food and Public Distribution	Cooperation
11.	Drinking Water	I & PH	Urban Development
12.	Shelter	Revenue	HIMUDA, PWD, UD and PR
13.	Media	I & PR	DD and AIR
14.	Help lines	Revenue	I & Public Relations
15.	Animal Care	Animal Husbandry	PRIs & UD
16.	Law and Order	Police	Home Guards
17.	Removal of Trees and Fuel Wood	Forest	Forest Corporation

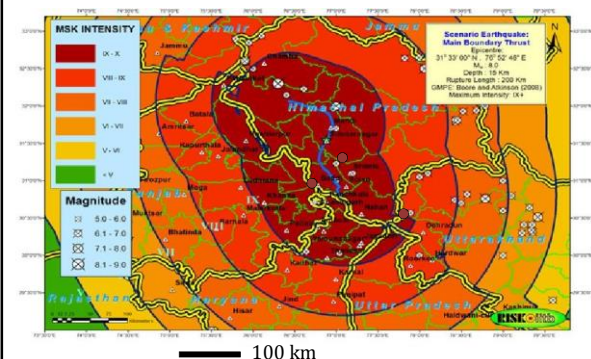


Projected Earthquake Scenario –
(NDMA-IITs – 2012-14)

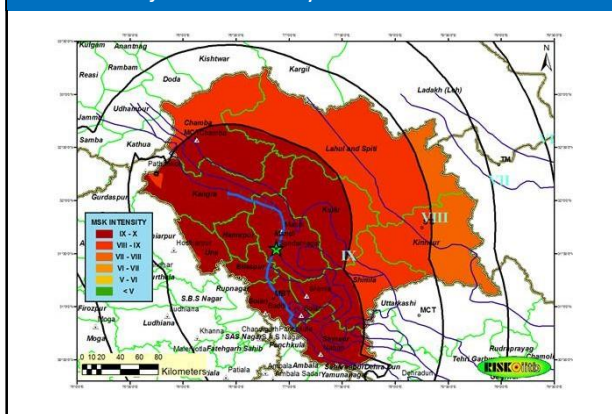
The Earthquake

- Hypothetical Earthquake
 - Magnitude M8.0
 - Epicentre near Mandi (SunderNagar)
 - on Main Boundary Thrust(MBT)
 - Earthquake in “seismicgap”
 - A night timeevent

Projected Intensity Distribution



Projected Intensity Distribution : HP



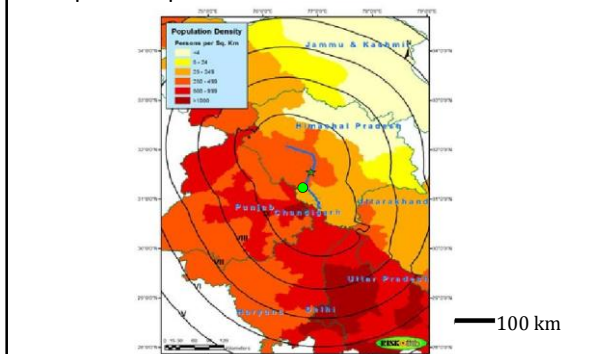
Projected Scenario Earthquake

- Exposed Area under the Scenario

Intensity	Area(km ²)
HP	
X to IX	28,606
IX to VIII	21,139
VIII to VII	5,928

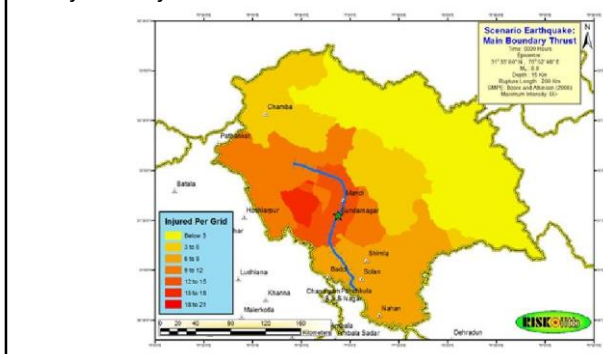
Projected Scenario Earthquake

- Exposed Population



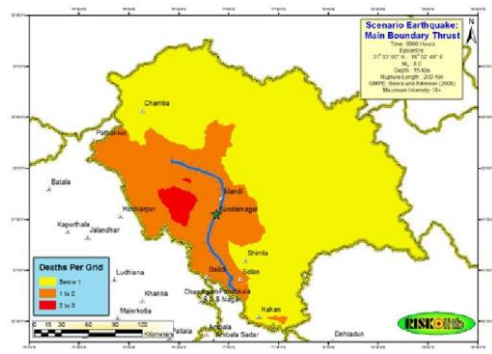
Projected Scenario Earthquake : HP

- Projected Injuries



Projected Scenario Earthquake : HP

• Projected Loss of Lives



Projected Scenario Earthquake : HP

• Estimated Injuries and Loss of Life

– Mid-night estimate

State	Population (Census, 2011)	Projected Deaths	Projected Injuries
Himachal Pradesh	68,56,509	2.3% ~1,60,000	16% ~11,00,000

– Projected Ex-gratia

- ~Rs. 6,400 Crores

Projected Scenario Earthquake : HP

• Estimated Injuries and Loss of Life

S No	District	Population (Census, 2011)	% Injured	% Deaths
1	Chamba	5,18,844	19.9	2.4
2	Kangra	15,07,223	15.5	2.3
3	Lahul & Spiti	31,528	19.3	2.2
4	Kullu	4,37,474	19.2	2.5
5	Mandi	9,99,518	19.7	2.5
6	Hamirpur	4,54,293	16.1	2.5
7	Una	5,21,057	11.4	2.2
8	Bilaspur	3,82,056	15.0	2.2
9	Solan	5,76,670	10.4	1.8
10	Sirmaur	5,30,164	15.8	2.3
11	Shimla	8,13,384	17.0	2.4
12	Kinnaur	84,298	13.8	2.0

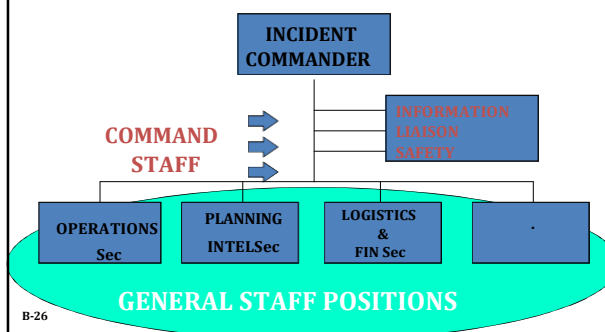
Projected Scenario Earthquake

• Effects on Urban Areas in HP

Intensity	Some Cities/Towns
X to IX	Shimla
	Chamba, Mandi, Nahan, Solan
	Bilaspur, Dhamsala, Hamirpur, Kullu, Una
IX to VIII	Rampur

Incident Response System

INCIDENT COMMAND



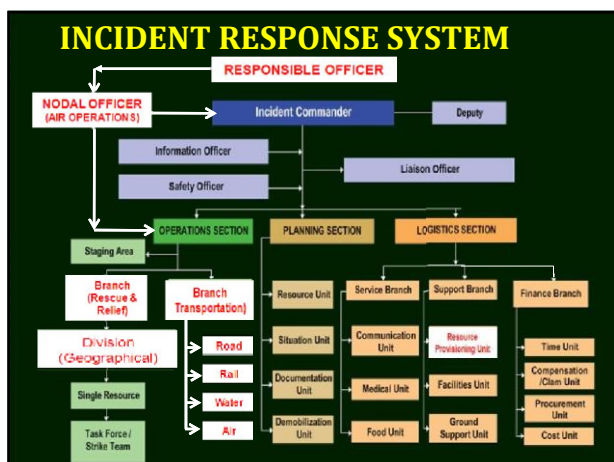


TABLE TOP EXERCISE

SITUATION 1

As at 00.00 Hrs on 10 July
2019

1. An earthquake of 8.0 Mw on Richter Scale occurred in Himachal Pradesh with Epicenter near Mandi (Sunder Nagar) at mid night 09/10 July,2019
2. Strong tremors experienced in whole North North-Western States of India.
3. The weather is bad, the sky is overcast and is raining heavily.
4. Heavy rainfall is reported in the entire State
5. As per IMD forecast, due to local disturbances, the weather will remain like this for next 72 hours.



SITUATION 2

AS on 6.00 hrs 10th July,
2019

- The major communication networks including the mobile phone network has been affected.
- Power lines and main sub-stations have been damaged.
- Major roads have been blocked due to bridge collapse and landslides.
- There is a fear of large scale damage to buildings and houses.
- Public is in panic and people are not ready to stay indoors

**SITUATION- 3****Collapsed structure SAR**

As at 09:00 Hrs on 10 July 2019

200 people are trapped under the collapsed structures in different parts of your districts:

1. Resources and capacity available in your district to meet the challenge?
2. What actions will be taken to organize a quick response.

**SITUATION 4**

As at 10:00 Hrs on 10th July 19

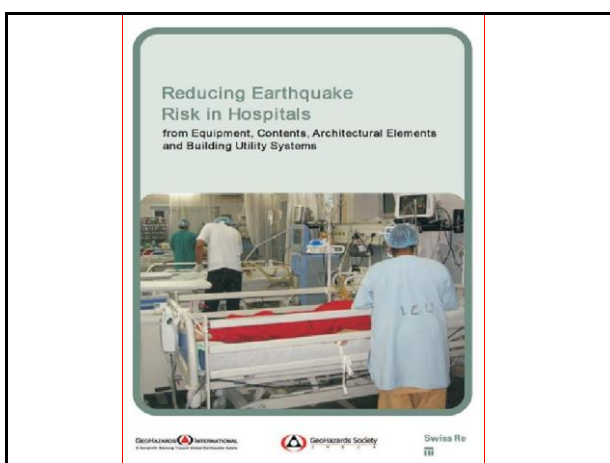
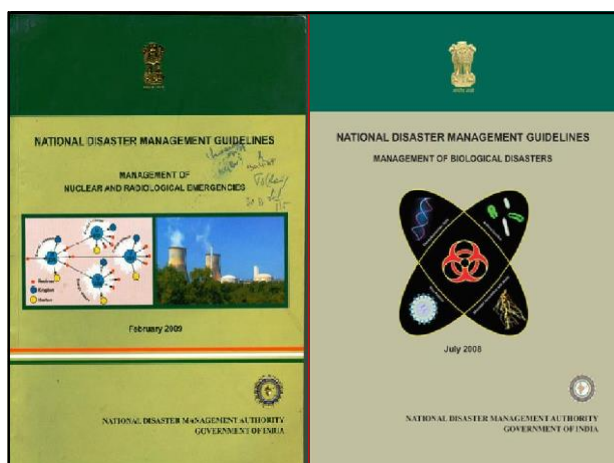
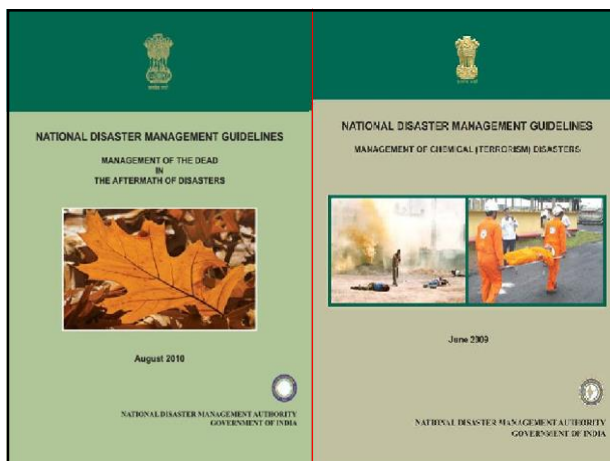
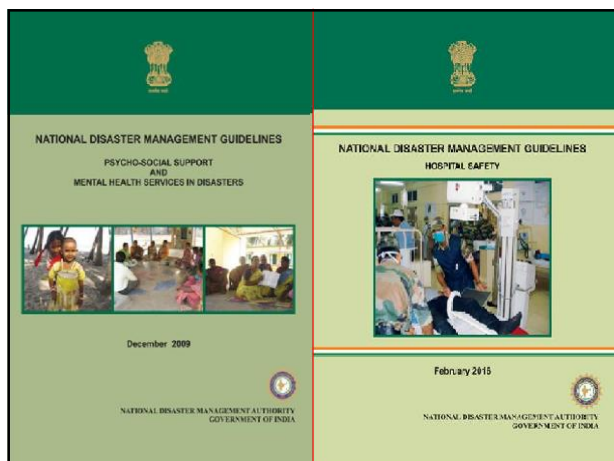
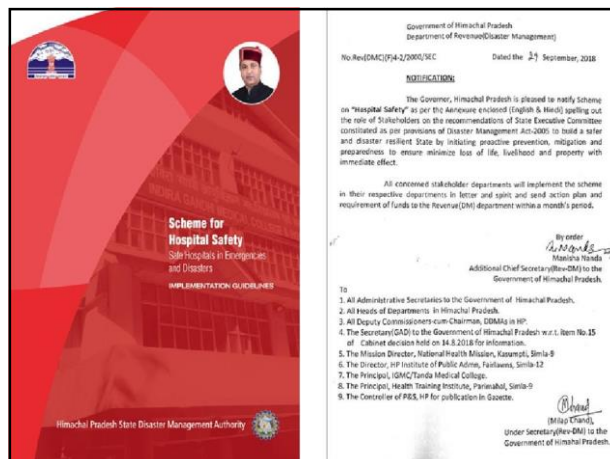
MEDICAL Response

A large number of casualties have occurred as a result of the earthquake. As CMO, what are your plans for medical response including evacuation of casualties :-s

- No. of medical teams in the district?
- No. of PHC, Ambulances and hospitals with bed capacity and specialist facilities.
- Which places you have identified for Surge Capacity?
- **Where and How will TRIAGE be organized?**
- What is the arrangement to keep the dead casualty?
- Does your plan include provision for all this?

SITUATION 4As at 10:00 Hrs on 10th July 19**MEDICAL Response Contd...**

- ❑ No. of medical teams and ambulances from other sources in what time frame will they be available?
- ❑ No of major hospitals in the State and other places to be alerted, with bed capacity and specialties?
- ❑ Are Psycho-Social and trauma counseling facilities available within the State? If so, where and how much?
- ❑ What medical help would you seek from Centre?





Situation 5 Management of Airports/Helibase

- Necessity to activate airports and helibase
- Liaison officer?
- Arrangement for loading and unloading, sorting, allocation of relief material
- Arrangement for transportation of relief material and personnel
- Evacuation of stranded people & casualties
- **Criticalities and coordination issues - the Air Force perspective?**
- **PROVISIONING OF ATF ? (AVAILABILITY OF IOC BOWSERS)**



Situation 6 Relief Camps

- How many relief camps would you like to establish in your district in such a situation and in what time frame will they be operationalised?
- Capacity? Personnel to man the relief camps?
- **Have the locations been finalized? If so, intimate location/s.**
- What relief equipment/material reserves are available in your district? Are they sufficient?
- **How the relief stores will be received, stored and distributed to victims?**
- Please give the organization functioning and

Situation 6A

Relief – Minimum Standards

- Shelter - 3.5 Sq.M. of covered area perperson
- Sufficient No. toilets – 1 toilet per 30 persons; gender specific; Toilet has to be 1.5 m above waterlevel
- Sufficient water supply – at least 15 liters of water for Sanitation and 3 liters of Drinking Water perperson
- Generators withfuel
- Food – 2400 K Calories per day per person & 1700 Kcal perinfant/Child
- Mass Causality Management – Advance Contingency Plans??



SITUATION – 7

Dealing with the Dead

- Guidelines?
- Who is responsible to manage this aspect?
- Availability of body bags and other related material to preserve / dispose of the dead humanbodies.
- Instructions for disposal of large number of animal carcasses.
- FROM WHERE WILL THE BODY BAGS BE PROCURED AND BYWHOM
- Arrangement for DNAprofiling?

SITUATION 8

As at 13:00 Hrs on 10 July 2019
DEPLOYMENT OF NDRF & OTHERTEAMS

Many SAR Teams ex NDRF, have arrived in the State. They were directed to report to the affected areas As the CO/ Officer-in-Charge of SAR teams, please give out:-

1. Your capabilities in SAR Operations.
2. Equipment being carried.
3. What help would you require from State/ District Authorities?
4. How long at a stretch can the SAR Team

SITUATION 9

EMPLOYMENT OF ARMY COLUMNS

Army and CAPF have been asked to provide columns for rescue and relief. As the Commander please intimate:-

1. How will these columns be comprised and what is their equipment profile?
2. What are their capabilities and what help can they render to the district authorities?
3. What liaison is required with the in the Civil Administration?
4. Issues of coordination and communication?
5. Any other help required from the Civil Authorities?

SITUATION 10

As at 17:00 Hrs on 11 July 2019

LAW & ORDER ISSUES

- Relief materials was sent to your District
- The same was intercepted en route and looted by the hooligans.
- There is a widespread discontentment amongst the affected people against district administration about non-distribution of relief material.
- There are also reports of loot and rioting from different parts of the district
- There are also a lot of issues of women and

SITUATION 11**EMPLOYMENT OF INGOs, NGOs, HOME GUARDS, NCC & VOLUNTEERS.**

1. How would you utilize the services of local and National NGOs, some of whom are already onsite?
2. How will their efforts be coordinated and synergized.
3. What is the strength of Civil Defence and Home Guards in your District? How will they be employed in Response & Relief?
4. Are there any plans to utilize the services of

SITUATION- 12**DAMAGE ASSESSMENT & RELIEF PLAN AT STATE LEVEL**

1. What are the means of assessing Loss & Damage in the district?
2. What are the needs of your district?
3. Who will carry out loss, damage and needs assessment in the district?

SITUATION- 13**Restoration of Essential Services**

- Prepositioning of Bridges, Electricity restoration material such as poles, DTRs, Water supply related material pipes, valves etc.
- Arrangement for supply of material, machinery and man power for such situation
- Arrangement of Transportation of Man, Material and Machinery to the Sites.
- Has pre-contracting of the items for such situations been done?

SITUATION- 14**Restoration of Telecommunication Services**

- What is the plan of restoration of telecommunication services in the districts?
- For last 24 hours the districts of Kinnaur and L & S are without communication
- Only Police HF network is available
- Contingency plans to restore communication
- Any help from private service provider
- Any HAM Operators in these districts?

SITUATION- 15**Restoration of Water supply**

- Water supply line to Shimla town has severely been affected
- The electricity supply to the pumping stations can't be restored for next 7 days
- Movement of traffic in Shimla is severely affected
- Plan to provide potable water?
- Plan to restore damaged water lines and electricity to critical infrastructure

SITUATION- 16**Industrial Hazards**

- Have you identified Hazardous industries in your district?
- Has Industries specific HRVA done in your district?
- Has on-site plans prepared for the industrial area?
- Has off-site plans prepared for the industrial area?
- Are you getting proper feedback on Safety inspection by relevant officials in the districts?

Summing up

- Please check your State, District and Departmental DMPs, whether they contain provisions for situations discussed today?
- Need to update & implement the plans
- Need to implement the Guidelines issued by NDMA, etc.
- Need to understand roles assigned to IRTs and Departments (ESFs)
- Need to conduct such exercises regularly to improve coordination
- Need to improve our response time to minimize the loss and damage to life and property



THANK YOU

ANNEXURE C



श्री जय राम ठाकुर
माननीय मुख्य मंत्री, हि.प्र.

भूकम्प आपदा पर वृहद् मॉक अभ्यास (Mock Exercise) 11 जुलाई, 2019

हिमाचल प्रदेश भूकम्प की दृष्टि से अतिसंवेदशील है तथा पूरा प्रदेश भूकम्पीय जोन IV एवं जोन V में आता है। एस.डी.एम.ए., एन.डी.एम.ए. के साथ मिलकर 11 जुलाई, 2019 को पूरे प्रदेश में भूकम्प आपदा पर मॉक ड्रिल का आयोजन कर रहा है।

- मॉक अभ्यास का उद्देश्य भूकम्प के प्रति जागरूकता बढ़ाने एवं विभिन्न विभागों की तत्परता का परीक्षण करना है।
- कृपया इस मॉक अभ्यास में बढ़-चढ़ कर भाग लें तथा भूकम्प से बचने के बारे में अपनी जानकारी बढ़ाएं। आओ जानें भूकम्प से बचने के लिए क्या करें :-

WHAT TO DO DURING EARTHQUAKE			WHAT NOT TO DO DURING EARTHQUAKE		
If you are inside an old weak structure, take the fastest and safest way out.	When driving a vehicle out to the side of the road and stop	After the shaking stops take the staircase to reach open space	If you are in a structurally sound building, stay there	Don't use Elevators	Do not panic : stay calm & take necessary action
If you are near an exit, leave the building as soon as possible. Do not rush to the exit point. Get out calmly in an orderly manner.	Move away from power lines, posts, walls, false ceiling, parapet, falling floor-pots and other elements that may fall or collapse.	Stay away from building with glass panes.	Move away from power lines, posts, walls, false ceiling, parapets and other elements that may fall or collapse	Stay away from buildings with glass panes	Do not attempt to cross bridges/flyovers that may have been damaged

आओ हम सभी मिलकर राज्य आपदा प्रबंधन प्राधिकरण, हि.प्र. के प्रयास को सफल बनाएं तथा 11 जुलाई को व्यापक पैमाने पर भूकम्प सम्बंधी मॉक अभ्यास में प्रतिभागी बनें।

GET PREPARED!!! DURING AN EARTHQUAKE



During an Earthquake **DROP** to the Ground, take **COVER** by getting under a sturdy table or other piece of hard furniture; and **HOLD ON** until the shaking stops.



हिमाचल प्रदेश राज्य आपदा प्रबंधन प्राधिकरण
राजस्व विभाग-आपदा प्रबंधन प्रकोष्ठ हिमाचल प्रदेश सरकार द्वारा जनहित में जारी
Email: sdma-hp@nic.in Website: www.hpsdma.nic.in Follow us: www.facebook.com/hpsdma

ANNEXURE-D
5th Mega Mock Exercise
11th July, 2019
Reporting Format for Observers

1. Name of the District/Sub-Division _____

2. Type of Exercise: _____ Date : _____

3. Time when the drill started: _____ Time when the drill
concluded: _____

4. If drill was to simulate an evacuation, how long did the evacuation take/with
details? _____

5. Time alarm sounded: _____

6. Time when the first and other IRT Members reached the EOC: _____

7. Time the Responsible Officer/Incident Commander reached the EOC:

8. How the Mock Exercise was triggered: _____

9. Staging Area: When the Area was earmarked? _____

10. Incident Command Post Established: (Y/N) if Yes when? _____

11. Details of the Incident Sites and Report thereof: _____

12. Details about the Scenarios painted by Observers/ IRT member (Enclose annexure)

13. Quality of Response (explain briefly):

14. Details of Loss and Damage:

15. Whether local community was mobilized/involved in the Mock Exercise?

Y/N _____ No. _____ (Approx.)

16. In what role were they involved? _____

17. No. Of Trained volunteer available & Roles _____

18. IEC Material distributed

Y/N _____ No. _____

19. Is EOC & District PCR co-located. How were messages being passed, received and logged at EOCs in absence of Line & mobile communication was

communication staff adequate?

20. Was the command, control and communication system efficient under the crisis situation. Was the RO (DC) getting all essential information in EOC?

21. How were the traffic control arrangements for Mock Exercise?

22. Give a narrative to assess the drill, including what went well and what needs improvement:

23. Basic drill being followed by victims & participants _____

24. Lessons & Recommendations

25. Is IRS operational? Could you identify Planning, Logistics and Operational Section Chiefs? Was Incident Action Plan made? Was there a situation briefing to senior officials?

26. Has HAZMET Expert identified & his role Identified? _____

27. Has Safety Officer been identified in District IRT? _____

(Signature of the Observer)

Name_____

Designation_____

Dept./Organisation_____

Date_____

ANNEXURE-E

Note- This Earthquake bulletin has been issued for Mock Purposes and is to be used for Mega Mock Drill Exercise on Earthquake on 11.07.2019.

**Government of India
Ministry of Earth Sciences
India Meteorological Department
Meteorological Centre Shimla**

SPECIAL EARTHQUAKE REPORT **(FOR MEGA MOCK DRILL)**

An Earthquake of magnitude 8.0 has occurred on
11.07.2019, Time – 00:30 Hrs IST
with its centre at Lat. 22.7739° N, Long 71.6673° E
(near Sundernagar, District Mandi, Himachal Pradesh) Depth of
Earthquake- 25 KM

It is expected that it may cause large scale damage as this Earthquake is of category of Great Earthquake (Scale ≥ 8.0).

So, It is requested to take appropriate action with respect to rescue and relief.

For-
Director,
Meteorological Centre
Shimla

Ends. No. Rev.(DMC)(F)11-31/2011-IV/ME Dated 11.07.2019 at 8:30 AM

1. All Deputy Commissioners
2. All DEOCs
3. All members of the State Incident Response Team

Director-cum-Special Secretary (Rev-Dm) to the
Government of Himachal Pradesh

ANNEXURE-F

I-SAT and V-SAT Phone Report- 5th Mega Mock Exercise 2019

Received Call on ISAT

Sr. No.	Name of the District	Time	Call received From	Other detail
1.	Shimla	12.30	DEOC Shimla	Situation Normal
2.	Mandi	12.35	DEOC Mandi	Rescue work is on way Situation on control
3.	Solan	01.14	DEOC Solan	Situation Normal

Dialled Call on ISAT

Sr. No.	Dialled Call From	Time	Call received	Other detail
1.	SEOC Shimla	12.50	DEOC Sirmour	Situation Normal 500 people rescued
2.		12.55	DEOC Kinnaur	Rescue work is on way Situation on control
3.		12.46	SDM Pangi	50 Rescued
4.		12.49	DEOC Bilaspur	Situation Normal
5.		12.41	DEOC Lahaul&Spiti	Rescued Operation closed on Keylong
6.		12.43	DEOC Shimla	191 person rescued on Tuti Kandi Bus stand. 18 Hospitalised 48 Total person injured 7 person dead
7.		1.00	DEOC Mandi	98 person rescued and 17 major injured, Death-14 Minor injured -22 Under Observation-12

Dialled call on V-SAT

Sr. No.	Dialled Call From	Time	Call received	Other detail
1.	SEOC Shimla	12.45	DEOC Mandi	Final report awaited. Rescue Completed

ANNEXURE-G

Observers & Units by the Army & Para Military Forces for 5th Mock Exercise – 11 July 2019

Sl. No.	State/District	Independent Observers to be deputed by	Independent Observer	Medical Observer
1	State – Shimla HQ	Chief Observer (Army), ITBP, NDRF	Col. Neeraj Mishra, Army 7650002922 Inspector Anand Majumdar (SSB, Communication) 8967092407	Dr. Rachana Pandey C.M.O (SG) ITBP
2	Bilaspur	CISF – Koldam		
3	Chamba	Army		
4	Hamirpur	SSB from Sapri		
5	Kangra	Army		
6	Kullu	ITBP 2nd Battalion	Sh. Suresh Kumar, Dy. Com. 8278884019	
7	Kinnaur	ITBP 17th Bn	Sh. Arjun S. Negi 9418007346	ITBP
8	Lahaul	ITBP 2nd BN	Sh. Baldev Singh, SI – Karga 9418055960	
9	Mandi	NDRF 7th BN	Sh. Brijesh Jaiswal, Project Associate NDMA	
10	Shimla District	Army	Lt. Col. Vivek Yadav, Army 9473500122	ITBP – IGMC ARMY – DDU
11	Sirmaur	Army	Cap. Abhishek Bisht, Army 9650173734	

12	Solan	Army		
13	Una	Army (Western Command)		
14	Spiti/Kaza	ITBP 2nd BN	Deputy Com. Tashi Tshering 8988113536	

Important Notes:

- 1. Himachal Home Guards & Fire Services will participate in the respective area of the battalions in association with the respective DDMA (Deputy Commissioner)**
- 2. Army & ITBP to participate in their respective areas.**
- 3. SSB & ITBP will provide observers for hospitals during Mock Exercise at Shimla and designated districts. Senior Medical Officer, SSB located at Shimla may please coordinate.**
- 4. SSB is requested to depute one officer from the telecom Training Center, Kasumpti, Shimla as Observer on telecom related issues.**

5th Mega Mock Exercise

11th July, 2019

Checklist for DEOCs preparedness

Name of DEOC.....

Sr. No.	Description	Observed	Remarks
1.	Adequacy of space of EOC	Adequate/Inadequate /Highly Inadequate	
2.	Whether the staff is trained to handle the disasters	Y/N	
3.	1077 (Functional)	Y/N	
4.	EOC Manual (Available)	Y/N	
5.	Communication Plan(Available)	Y/N	
6.	Equipment Checklist (Available)	Y/N	
7.	Air Rescue(HADR) Guideline (Available)	Y/N	
8.	Requisition of NDRF Guidelines(Available)	Y/N	
9.	List of Helipads(Available)	Y/N	
10.	Fuel backup for 72 hours(Available)	Y/N	
11.	IDRN* Booklet (Available)	Y/N	
12.	E-Bhuvan and NDEM Portal (Working)	Y/N	
13.	Deptt. ESF Plan (Available)	Y/N	
14.	Nodal Officer List (Available)	Y/N	
15.	I-SAT Phone with SoP (Available)	Y/N	
16.	V Sat (Available)	Y/N	
17.	Genset (Available)	Y/N	
18.	Adequate Staff with Clarification role distribution	Y/N	
19.	HPSDCN** Database Available	Y/N	
20.	HPSDCN** Database Working	Y/N	
21.	Working VHF set	Y/N	

Name

Designation.....

Signature.....

Date.....

* Indian Disaster Resource Network (IDRN)

** HP State Disaster Communication Network (HPSDCN)

5th Mega Mock Exercise

11th July, 2019

Checklist for Hospital Preparedness

Name of Hospital.....

Sr. No.	Description	Observed	Remarks
22.	Hospital Disaster Management Plan prepared	Y/N	
23.	Area of triage identified	Y/N	
24.	Plan for surge capacity	Y/N	
25.	Disaster Management Committee formed	Y/N	
26.	Training & Capacity Building of hospital staff done	Y/N	
27.	Fire equipment in the Hospital	Adequate/Inadequate	
28.	Fire equipment with valid date	Y/N	
29.	Mapping of resources in Pvt. Sector done	Y/N	
30.	Protocol to call staff on duty notified	Y/N	
31.	Pre contacting of essential items done	Y/N	
32.	Whether arrangement of Psychosocial care done	Y/N	
33.	Buildings/spaces-identified to run temporary hospitals	Y/N	
34.	Alternative Power sources:- (a) How many hours generators can run. (b) How much diesel available.		
35.	(a) Total storage of water- (b) For No. of Days-		
36.	What communication from Hospital to CMO		
37.	Any helipad in hospital or nearby	Y/N	
38.	Holding area Identified	Y/N	
39.	Provision of Contamination Control	Y/N	
40.	Transport Regulation	Y/N	

Name

Designation.....

Signature.....

Date.....

5th Mega Mock Exercise: Loss Report

Sr No	Event	Time	District Name	Casualties	injured	Trapped	Bridges Damaged/ Collapsed	Building Complete/ Partially Collapse	Description
1	Earthquake Occurrence	8:38 Hrs	Shimla (Tuti Kandi)	-				Building collapsed and fire broken	Damage convey to staging area.
2	Earthquake	8:41 Hrs	Solan	-					Inform to local authorities and rescue team move shortly.
3	Earthquake	7:38 Hrs	Bilaspur	8	27	30 (5 doctors)		Hospital Building damaged	Operation completed.
4	Earthquake	8:34 Hrs	Kangra						Earthquake observed in Kangra district but no update till now but inform accordingly.
4	Earthquake	8:41 Hrs	Kangra					Jawalamukhi building collapsed update awaited.	
5	Earthquake	8:30 hrs	Shimla						Earthquake 8.0 experienced heavy damaged caused building damaged many people suspected to be worried under debris army required to civil administration.
6	Earthquake	8:45 Hrs	Sirmour (Do Sarka, Chotta Chowk, Kala Amb factory, Bus stand nahan,						Earthquake reported on the above mention locations. Rescue parties moved to the spots.

5th Mega Mock Exercise: Loss Report

			Chogan Nahan)						
6		8:35 Hrs	Hamirpur					Sanik School	Rescue team moved at rescue state at 8:39
7		6:38	Bilaspur (Jhandutta)	3	10	3		Building Damaged	
8		7:05	Bilaspur			45		Navodya Sadar Building Damaged	
9		7:05 Hrs	Bilaspur (Sadar Prtihi Dhaba) Short circuit		5	4-6			Fire broken due to short circuit 4-6 persons trapped one child sent home after first aid and all are refer to RH. Rescue is over at 7:18.
10		6:40	Bilaspur				Ghagas Bridge damaged		
11		6:47 hrs	Bilaspur (Naina Devi Saraya		6	6		Building Damaged	
12		8:47 Hrs	Solan						Earthquake at solan vivanta mall solan degree collage solan, Sanjeveni Hospital, Housing Building, Rescue team moved.
18		8:31 Hrs	Mandi						Rescue started by local admin at bus stand.
19			Shimla						Lower Bazar fire. Fire tender reached.
20		8:35 Hrs	Bilaspur	9 (8 Male, 1 Female)	37 Minor 14 Major			Lakhanpura and Kothi pura building collapse.	14 refer to RH Bilaspur. Total Loss 80 Lakh
21		8:00 Hrs	Kullu	3 Male	2 Injured				Car accident at bhathar.

5th Mega Mock Exercise: Loss Report

22		9:10 Hrs	Solan						Earthquake observed rescue operation started
23		9:00 Hrs	Mandi (Sundernagar)						Earthquake observed Communication affected working on wireless.
24		8:50 Hrs	Kullu	2			Valley bridge damaged, Alto car washed two casualties		Fire at akhara Bhawan
25			Kinnaur						Fire in indra market, Pangi Nallah block due to landslide and avalanche in kalpa road.
26			Keylong	3	3			G SSS Keylong damaged	3 student injured due to building damaged. Billing nallah blocked.
27		9:230 Hrs	Hamirpur						Matton Sidh power station damaged. Rescue team moved.
28			Sirmour	12 (Male 4, Female 8)					Building got fire at Chotta chowk. Rescue started. Rescue at kala amb not reach.
29		8:54 Hrs	Kangra (Nagrota)					Rajiv Gandhi Building Damaged Childern inside	Rescue parties reached.
30		9:10 Hrs	Kullu (Banjar)	3	11				Heavy loss of property
31			Kullu (Akhara Bazar)					Hospital Building Damaged	Fire broken at akhara bazar. Rescue atarted
32		9:06 Hrs	Hamirpur (Nadaun)		3				Link road blocked.
33			Hamirpur (Nadaun)			1 trapped		Sanik School 50% damage	Rescued and admitted hospital. 10

5th Mega Mock Exercise: Loss Report

									persons rescued. 5 children given first aid 5 admitted to CHC Sujampur.
34		09:00 Hrs	Nurpur	2 (1 Male, 1 Female)	41 (36 M, 5 F)			School building collapsed	
35									

Sr No	Event	Time	District Name	Casualties	injured	Trapped	Bridges Damaged/ Collapsed	Building Complete/ Partially Collapse	Description
1	Earthquake	10:12 Hrs	Bilaspur				Ghaghas Bridge Damaged		Traffic diverted by Kandroor to shimla Chandigarh. Work of bridges in progress.
2	Earthquake	10:10 Hrs	Kangra, nurpur					City hospital building damaged	Rescue party moved to the sport
3	Earthquake	10:12 Hrs	Solan						Vivantah mall Rescue operation completed.
4	Earthquake	10:10 Hrs	Bilaspur	2 (1 M, 1 F)	13 (8 M, 5 F)				Operation completed.
5	Earthquake	10:18 Hrs	Kangra		7			Dehra Bridge collapse	Traffic diverted by Chambi Bridge Rescue.
6	Heavy Rainfall	10:20 Hrs	Kangra			500	Jhakwar Bridge damaged	Mahila Mandal Bhawan at Rehalpur and Temple damaged	Heavy Raining and flood like situation. 2 chooper moved to Gagal airport for transporation for Chamba, Una at Sarwasa .
7		10:13 Hrs	Nahan, Do Sarka			37			37 people trapped inside the bus.
8	Landslide	10:31 Hrs	Kangra		10 (6 M, 6 F) Surya Hotel 4,				3 person rescued by Maclodganj police station. Sub Division stranded due to

5th Mega Mock Exercise: Loss Report

					Basu Hotel 2, Vikasta hotel 3,				landslide.
9		10:30 Hrs	Bilaspur						5 person rescued from booking counter Bilaspur and sent to RH.
10		10:27 Hrs	Bilaspur						Fire tender and police team send to Jhandutta.
11		10:18 Hrs	Solan	32	61 (35 Serious, 26 Minor) 5 are safe				
12		10:00 Hrs	Shimla, AG Office	1	30 Minor injured send to resue, 10 to IGMC				
13			Shimla, CTO Building	-	15 (Minor injury 3, 5 refer to IGMC				
14			LowerBazar, Shimla	36	36 (4 IGMC, 10 Rippon)				
15			ISBT, Shimla	-	6 IGMC				10 persons rescued
16			US, Club	-	-	-	-	-	Rescue completed.
17			Gumma						Electricity supply affected.
18		10:30 Hrs	Chamba						7 rescued and refer to hospital. No casualties reported so far.
19		10:15 Hrs	Bilaspur		27 (12				Stampede in Naina Devi

5th Mega Mock Exercise: Loss Report

					Major, 15 Minor)				temple.
20		10:17 Hrs	Bilaspur, Naina Devi		18				Stampede in Sarai no 03.
21		10:40 Hrs	Solan						Rescue operation ended in MC office, Degree college and vivanta mall and Hosuing Board colony and still continuing in sanjeevini hospital final report awaited.
22			Kangra, Nagrota Bangwan	2 male	21 (12 M, 8 F, 1 C)			Degree college Bhuwan collapsed	Rescue operation is continued.
23		10:09 Hrs	Kangra					Bridge collapse in Dehra Sub Division	5 Vehicle fallen in river. Rescue operation is continued.
24		10:20 Hrs	Kullu						Fire broken at Anni Bus stand. Rescue team rushed to spot.
25		10:10 Hrs	Kullu, Anni		10			Building Collapse	First aid given and hospitalized.
26		10:20 Hrs	Kullu, Anni	3	8				Fire incident in Kullu Anni.
27		10:29 Hrs	Kullu, Banzar	20 M, 20 F, 30 Child	500 (230 Serious)			95 Houses damaged	95 houses damaged, FD 35 houses and 60 PD. 500 injured out of 23 Serious (50 M, 100 F, 80 C). 270 got light injured (M 100, F 70, 200 C). Damage Loss estimated 18-20 Crore. 50 animals (20 cows, 10 dogs and 10 Goats and Sheeps.
28		10:20 Hrs	Kullu, Anni	3	8			Fire and Building collapse.	Fire controlled by fire brigade.

5th Mega Mock Exercise: Loss Report

29		10:25 Hrs	Mandi, Bus Stand		6				6 people hospitalized.
30		10:26 Hrs	Sundernagar, Engineering College		6				6 people hospitalized.
31		10:10 Hrs	Bilaspur	2 (1 M, 1 F)	13 (8 M, 5 F)				Naina Devi operation completed.
32		10:50 Hrs	Sirmour						Rescue completed.
33		10:00 Hrs	Sirmour, Kala Amb		14 (9 M, 5 F)				
34		10:00 Hrs	Sirmour, Chotta Chowk		3 (1 M, 2 F)				
35		10:00 Hrs	Sirmour, Vikram Castle		10 (10 F)				
36		10:00 Hrs	Sirmour, Do Sarka		3 (1 M, 2 F)				
37		10:00 Hrs	Sirmour, Bus Stand Nahan		3 (2 M, 1 F)				
38		10:00 Hrs	Sirmour, Bada Chowk	2 (1 M, 1 F)					
39		10:00 Hrs	Sirmour, Old block house		1 F				
40		10:46 Hrs	Solan	3	17 (7 Serious, 10 Minor)				Sanjeevini Hospital, operation continuing.
41		10:45 Hrs	Una	10 (7 Male, 3 Female)	15 (5 Refer to RH, 10 to Haroli)				
42		10:59 Hrs	Solan						Rescue operation at sanjeevini completed final report awaited.
43		10:43 Hrs	Kinnaur	8	16				Injured is hospitalized.
44		10:05 Hrs	Sirmour	2					All injured evacuated to hospital.
45		10:45 Hrs	Keylong	3	62 (3				

5th Mega Mock Exercise: Loss Report

					persons need helly service)				
46		10:40 Hrs	Keylong		8				18 rescued and 18 hospitalized.
47		10:34 Hrs	Bilaspur						Fire and police reached Jhandutta.
48		10:50 Hrs	Chamba		2	55			Sheetla Bridge trapped 20-25 all rescued. At Bus Stand Chamba 25 person trapped 2 person sent for medical college and about 25 sent after first aid. 4-5 persons trapped in ravi and rescued.
49		10:50 Hrs	Kangra		7 (5 M, 2 F)				Rescue operation continued.
50		10:50 Hrs	Kangra, Macklodganj		12 (6 M, 6 F)				Rescue operation completed.
51		10:50 Hrs	Kangra, Nagrota	2	21 (12 M, 8 F, 1 C)				Rescue operation continuing.
52		10:50 Hrs	Kangra, Jawalamukhi	50 (30 M, 20 F)	200 (119 M, 81 F)				Rescue operation continuing.
53		10:50 Hrs	Kangra, Fatehpur	2 (1 M, 1 F)	6 M			Mahila Mandal and mandir collapse	Rescue operation continuing.
54		10:5 Hrs	Kullu		10 (5 Serious, 5 Minor)			10 house collapse	10 house at Chamunda (5 PC, 5 FC). Total Loss 7 Crore and injured hospitalized.
55		10:50 Hrs	Kangra, Dharamshala					25 Houses collapse in Koganchi Mohalla	Rescue team moved and information awaited.
56		10:57 Hrs	Mandi, Bhootnath Temple		20 (12 Serious, 8 Minor)				Serious hospitalized.

5th Mega Mock Exercise: Loss Report

57		10:04 Hrs	Solan, Sanjeevini Hospital	20	4				Injured hospitalized.
58		10:00 Hrs	Solan, Vivanta Mall		12 (7 Serious, 5 Minor)				
59		10:02 Hrs	Kangra, Lambagaon, Jaisinghpur		40			Degree college building collapsed and Block at Bhwarana	Injured hospitalized.
60		10:02 Hrs	Solan, Degree College		2 (Serious)				
61		10:23 Hrs	Shimla						AG, Office, U S Club, Gumma(10:40), ISBT (11:00) Rescue completed.
62		10:30 Hrs	Nahan						All Rescue completed and all parties reached back.
63		10:12 Hrs	Mandi, Baldwara, ITI Barher						Rescue Team sent.
			Total	244	1653	592	2	101	

5th Mega Mock Exercise: Loss Report

Sr No	Event	Time	District Name	Casualties	injured	Trapped	Bridges Damaged/ Collapsed	Building Complete/ Partially Collapse	Description
1	Earthquake	11:32 Hrs	Mandi						Rescue completed at DIET.
2		11:35 Hrs	Mandi, Pandoh						All required mail sent to Rampur.
3		11:25 Hrs	Chamba	1		3			4 persons rescued. Dalhousie 2 building collapsed Police and PWD rushed to spot. In 1 st building no casualties and 2 nd building 8 persons were present 1 died on spot 4 rescued 1 major injured and 1 minor injured sent to chc Dalhousie. DAV collage Banikhet 1 building collapsed some student and staff in building. Local People and police rushed to the spot all rescued no casualties.
4		11:30 Hrs	Mandi, Gohar	1		13			BASA College Gohar Mandi, 13 People Trapped 12 Rescued and 1 died.
4		11:25 Hrs	Mandi, Gohar		4			Building damaged	All hospitalized.
5		11:22 Hrs	Mandi, Bhootnath temple						Rescue completed at Bhootnath and Bheuli Bridge.
6		11:20 Hrs	Kullu	5	30				Total 50 persons evacuated at hotel Ramnik Kullu out of 3

5th Mega Mock Exercise: Loss Report

									died and 20 injured rest all are safe. In PWD office Kullu 25n persons evacuated out of 2 are death and 10 serious injured and rest are safe.
7		11:15 Hrs	Bilaspur, Naina Devi Temple	12	98 (37 M, 61 F)				Operation completed, 10 Injured sent to CHC gohndal as 10 beds are available and 88 sent to Anandpur sahib.
8		11:15 Hrs	Kangra, Nagrota Bangwan	3	20 (11 M, 8 F, 1 C)				Operation completed at Nagrota Bangwan.
9		11:15 Hrs	Kangra, Bazar, MC Office Fire	2 (1 M, 1 F)	9 (5 M, 4 F)				Operation completed and injured sent to hospital.
10		11:10 Hrs	Keylong		4				Provide helicopter at Stingri helipad.
11		11:07 Hrs	Mandi, Beyliya Bridge	5	10 (5 Minor, 5 Serious)				
12		11:12 Hrs	Kangra		5				Bridge collapse on shahpur road, Injured hospitalized.
13		11:07 Hrs	Mandi Baggi	2	10 (4 Serious, 6 Minor)				Rescue completed.
14		11:07 Hrs	Una	1	46 (37 M, 9 F)				Dead Body sent for pustomthum and injured send to hospital.
15		11:04 Hrs	Una Tahliwal		15				10 refer to CHC Haroli and 5 to RH Una. Rescue operation completed.
16		11:02 Hrs	Una, Nanda Hospital	1	10 (6 M, 4 F)				Dead Body sent for pustomthum and injured send to hospital.

5th Mega Mock Exercise: Loss Report

17		11:05 Hrs	Solan	15	75 (38 Major, 37 Minor and 10 Safe)				Final report.
18		11:05 Hrs	Mandi	3	10				3 serious and 7 are minor.
19		11:05 Hrs	Chamba	4 (2 M, 2 F)	23 (13 M, 10 F)				Bhatiyaar Sector B. ED college 2 acsualties and 5 major injured and 8 minor injured. Degree college chuwari 2 died and 10 injured.
20		11:07 Hrs	Kangra, Indora						Degree college building collapse, Rescue team moved.
21		11:40 Hrs	Kangra, Dehra Sub Division		7				Senior Sec School fire broken due to short circuit. Operation completed
22		11:39 Hrs	Kangra	3 M	9 M			City Hospital Building one side collapsed.	Operation completed.
23		11:38 Hrs	Kangra	50 (30 M, 20 F)	200 (119 M, 81 F)			College Building collapse.	Operation completed.
24		11:40 Hrs	Kinnaur	8 m	19 (18 m, 1 F)	61			Rescued 61 and 19 hospitalized. Pangi Nallh blocked due to landslide.
25		11:25 Hrs	Keylong, fire in Kaza	2	13 (3 Serious)				8 rescued.
26		11:27 Hrs	Keylong		8 (1 C, 7 F)				10 Rescued.
27		11:20 Hrs	Keylong, Billing Nallah	1	3				04 Rescued.
28		11:30 Hrs	Keylong		2				Landslide at Jisspa.
29		11:52 Hrs	Mandi						At Hospital Mandi total

5th Mega Mock Exercise: Loss Report

									patient received 72. Red Tag:- 19 Yellow Tag:- 16 Green Tag:- 21 Black tag:- 16
30		11:55 Hrs	Mandi						Operation completed at Baghi Canal.
31		12:00 Hrs	Kangra	8 (3 M, 2 F, 3 C)	38 (17 M, 14 F, 7 C)				Fire at Bachat Bhawan. Operation completed.
32		11:55 hrs	Kangra, Indora		12 (10 M, 2 F)				Degree college Building operation completed.
33		11:51 Hrs	Kangra		40 (15 M, 25 F)				Operation at Degree college at Bachat Bhawan Jaisinghpur completed.
34		11:18 Hrs	Kangra		5				Operation completed at Chambi Bridge.
35		12:05 Hrs	Kangra						In Baijnath mini Secretariat and ITI building one room damage. Rescue party send to spot and updates are awaited.
			Total	127	725	77		3	



पालमपुर : पालमपुर में काल्पनिक भूकंप के दौरान चलाए जा रहे राहत कार्य। (श्याम)

ਪੰਜਾਬ ਕੇਸਰੀ
ਈ-ਪੇਪਰ

जागरण सिटी मंडी

आपदा प्रबंधन पर दायित्वों को गंभीरता से लें : गर्ग

मंडी शहर में मेगा मॉक ड्रिल का आयोजन, विभिन्न विभागों के अधिकारियों व कर्मचारियों ने लिया भाग

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मेलि ने दो कीर्तियों को अपनाए थे। जेडू, जेडू बचपन काली के साथ प्रेमप्रसन्न किया था। इन्हें मिली ने अपना दो किर्ती में जोड़कर ही मिले



मझीण कालेज में आपदा से बचने के लिए टिप्स

नादौन। राजकीय महाविद्यालय मझीण में आपदा प्रबंधन की तैयारियों के लिए मॉकड्रिल का आयोजन किया गया। यह मॉकड्रिल दोपहर 12 बजे कालेज में सायरन बजते ही शुरू हुई। कक्षाओं में बैठे छात्र-छात्राएं सायरन बजते ही बेंचों के नीचे बैठ गए। इसके बाद छात्र-छात्राएं पॉकबद्ध होते हुए तथा अपने-अपने सिर को बैग से ढके हुए कालेज प्रांगण तक पहुंचे। घायल हुए छात्रों को स्ट्रेचर पर लेटकर कालेज के खुले प्रांगण में पहुंचाया गया। इस मौके पर कालेज प्रधानाचार्य सुशील कुमार बस्सी ने छात्रों को आपदा के समय की ध्यान में रखे जाने वाली जरूरी बचाव गतिविधियों के बारे में जानकारी दी। इस मौके पर कालेज प्राध्यापकों ने भी हिस्सा लिया।

दिव्य हिमाचल Fri, 12 July 2019
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मनाली में भूकंप, 23 लोग घायल

दिव्य हिमाचल ब्यूरो - मनाली यह मॉकड्रिल का हिस्सा है।

मनाली में गुवुवर सुबह जैसे ही भूकंप के झटके महसूस किए गए शहर में अफरा-तफरी का माहौल देखने को मिला। यहां भूकंप आने से कीमतें 25 लोग जहां थायाल हुए हैं, वहीं सैकड़ों जिंदगियों को प्रशासन ने बचाया। मनाली में सुबह आठ बकर 35 मिनट में भूकंप आया। सायन बजते ही प्रभुपति नगरी में अफरा-तफरी मच गई। लोग चारों ओर दौड़ने लगे। मनाली में आए भूकंप से अधिक नुकसान मनाली के मॉडल टाउन में हुआ है। लोग व पर्यटक भी सायन की आवाज सुनकर अपनी-अपनी जगह खड़े हो गए। काफी देर बाद उन्हें पता चला कि सुबह मॉकडिल का आयोजन किया गया। शहर में भूकंप आने से राहत दल मनाली के विभिन्न हिस्सों में राहत कार्यों में जुट गए। शहर की सड़कों पर दबायेले विभागा की गाड़ियां सायन र बजते मौक पर पहुंचीं। एसडीएम मनाली रमन घमसंगी ने बताया कि गुवुवर को प्रदेश सरीय मॉकडिल का आयोजन किया गया, जिसके तहत मनाली में भी मॉकडिल की राह उन्होंने बताया कि मॉक ड्रिल में पुलिस व होमापाई के जवानों सहित आर्यभट्टन केंद्र मनाली के जवानों आईपीएच, पीडब्ल्यू व विद्युत विभागा के कर्मचारियों व अधिकारियों ने भाग लिया।


 Fri, 12 July 2019
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पद्धर में आया भूकंप, राहत में जुटे बचाव दल



पहले, उम्पड़न स्तर में गुनवार को भूकंप आने पर बचाव राहत कार्य के संबंध में मेरा मंत्र अमर का आयोजन किया गया। तब समय पर हूट बजते ही उम्पड़न स्तर के सभी विभागों के अधिकारी, कर्मचारी, स्टैफिंग पर्याप्त तत्सल कायावत पढ़ के प्राणों में तत्काव जुड़े। स्टैफिंग वर में अलग-अलग बचाव दलों का गठन किया गया। कस्यनिक तौर पर माना गया कि तहसील भवन भूकंप के कारण गुनवार में हुआ है इस भवन में राहत व बचाव दल ने अपना राहत अभियान शुरू किया। जिसमें गंभीर रूप से घायल व्यक्ति को तुरंत प्राथमिक चिकित्सा देकर एडवेंस के मज्जाम से उच्चार हो पड़े अस्थलत ले जाया गया। इस दौरान उम्पड़न स्तर के (न) पहर पति मोहन सिंह जीरुजी दारा- निरंदा देह रहे और पूरे मेरा मंत्र अमर का आयोजन उनकी देखरेख में हुआ। इस मेरा मंत्र अमर में कुल 1 व्यक्ति को मृत घोषित किया गया दो व्यक्ति गंभीर रूप से घायल व और दो व्यक्तियों को प्राथमिक उच्चार दिया गया। अस्थलत प्रश्न दन दारा निविष्ट पति पर बचाव कार्य में अंशुम भुचार किर्ताई मई व सत्यव्य विभागे और अन्य विभागों द्वारा भी सहयोग दिया गया। उम्पड़न कायावत पढ़ भूकंप आने के दौरान बचाव व राहत कार्य के बारे में जानकारी दी गई। जिसमें अंशुम हार होलेव के द्वारा किस तरह से अपने शरीर को भूकंप से बचाया जा सके। उन्होंने सभी से ऐसी आपदा की घड़ी में अपना सहयोग देने का अप्रह्न किया। उन्होंने कहा कि ऐसे मेरा मंत्र अमर कायन को अदरय लेनें को जानसक करना है, जिससे उनें बचाय जा सके कि आपदा की घड़ी में कैसे बचाव किया जा सके और आपदा प्रधन की तेबयारी को समीक्षा व कर्मियों का कसिलेणो भी किया जा सके। इस अवसर पर तहसील पढ़ पढ़ प्रकाश चंद शर्मा सहित उम्पड़न स्तर के सभी विभागों के अधिकारी व कर्मचारी मौजूद रहे।


 दिव्य हिमाचल Fri, 12 July 2019 <https://epaper.divvyahir> 

जब मारागन की थातानें मनकर मइमे लोग

जय श्रीगुरु का आशीर्वाद सुभाष चन्द्र बोस का

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Printed: Fri, 12 July 2013

भूकंप से निपटने के लिए हिमाचल तैयार

[illegible]

धर्मशाला : माँक ड़िल के दौरान डी.सी. कार्यालय में घायल क
एम्बलैस तक पहुंचाते सेना के जवान।


ਪੰਜਾਬ ਕੇਸਰੀ Fri, 12 July 2019
ਓ-ਪੇਪਰ <https://epaper.punjabkesari.in/c/4>



ज्वालामुखी : ज्वालाजी में आयोजित मॉक ड्रिल के दौरान घायल को उपचार के लिए ले जाते जवान। (मिसेश)

ਪੰਜਾਬ ਕੇਸਰੀ
ਫ੍ਰੀ-ਪੇਪਰ

Fri, 12 July 2019
<https://epaper.punjabkesari.in/c/4>





ताकि आपदा में न हो ज्यादा नुकसान

मेगा मॉक ड्रिल के दौरान बस अड्डा परिसर हमीरपुर में व्यक्ति को कंधे पर उठाकर लाता बचाव दल का कर्मचारी।



इंदौरा : राजकीय महाविद्यालय इंदौरा में मॉक ड्रिल के दौरान आपात स्थिति से निपटते आपदा प्रबंधन समिति के सदस्य। (अर्द्धक)

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मॉक ड्रिल : भूकंप से थर्राए सिसमोर के कई हाताहत; पुल टूटे, नदियों में बाढ़

मेगा मॉक ड्रिल में सेना समर्थ विभागों के अगुए पसीना, आवासे से निपटते के लिए आपदाकालीन उपाय: एमडीएम पांखा

मेगा मॉक ड्रिल में सेना समर्थ विभागों के अगुए पसीना, आवासे से निपटते के लिए आपदाकालीन उपाय: एमडीएम पांखा

भोरंज में आया भूकंप आठ घायल

भोरंज। लघु सचिवालय भोरंज में एसडीएम भोरंज डा. अमित कुमार की अध्यक्षता में आपदा प्रबंधन पर मॉकड्रिल का आयोजन किया गया। इसमें आठ केजुअलटी हुई है, जिसमें बेहोश होने पर घायल को स्ट्रेचर से बाहर निकाला गया। टांग में चोट लगने पर मानव बैसबिडवार ऊपरी मंजिल से नीचे लाया गया। बेहोश होने पर लिफ्ट द्वारा नीचे लाया गया। एक टांग टूटने पर श्री हंडू द्वारा नीचे लाया गया, जिसमें तीन केजुअलटी नॉर्मल रहीं। इस टीम में 11 सदस्य उपस्थित रहे, जिसमें टीम प्रभारी नानक चंद, राकेश कुमार, रविंद्र कुमार, सुरेंद्र कुमार, सतीश कुमार, सुदेश कुमार, बाल कृष्ण, पवन कुमार, मनोज कुमार, रणवीर सिंह, दीपक इत्यादि ने भाग लिया। एकदिवसीय शिविर के तहत लोगों व कर्मचारियों को मॉक ड्रिल के माध्यम से भूकंप से बचाव व राहत के गुर सिखाए। इस दौरान भूकंप के बाद राहत व बचाव के तहत इस्तेमाल होने वाले उपकरणों के बारे में भी जानकारी दी। मौके पर बीएमओ ललित कालिया, एक्सईएन पीडब्ल्यूडी अमर सिंह, एक्सईएन आईपीएच ओम प्रकाश, एसडीओ अजय वर्मा, तहसीलदार दीना नाथ, एसएचओ कुलवंत सिंह व सभी विभागों के कर्मचारी मौजूद रहे।

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प्राकृतिक आपदा से बचाव को दौड़ पड़े अधिकारी और कर्मचारी

मेगा मॉक ड्रिल से राहत एवं बचाव कार्य के तरीके बताए, सभी विभागों ने निर्भाई जिम्मेदारियां

अमर उजाला ब्यूरो

हमीरपुर। जिलाभर में बीकानर को आपदा प्रबंधन पर मेगा मॉक ड्रिल से प्राकृतिक आपदाओं से बचने के तरीके बताए गए। भूकंप जैसी प्राकृतिक आपदा की स्थिति में राहत और बचाव योजना के प्राचीन नियंत्रण और विभिन्न विभागों के मध्य बेहतर समन्वय के उद्देश्य से मेगा मॉक ड्रिल आयोजित की गई। उपायुक्त हरिकेश मोहा ने जिला आपदा निवारण केंद्र से इस पूरे प्रयास का संयोजन किया। आपदाकालीन स्तर पर भी इसी तरह के प्रयासों को आयोजित किए गए।

राज्य स्तर से मिला आपदा प्रबंधन प्राधिकरण में बीकानर सुबह 6.30 बजे के लगभग हरिद्वार प्रबंधन अने की सूचना प्राप्त होती ही आपदा प्रबंधन से जुड़े सभी विभाग सक्रिय हो गए। उपायुक्त हरिकेश मोहा, पुलिस अधीक्षक अजित शर्मा, पुलिस अधीक्षक अजित शर्मा, सहित सभी प्रशासनिक और विभागीय स्तर के जेडएल अधिकारी अपने-अपने दायित्व में जुट गए। जिला मुख्यालय में बस अड्डे के आसपास आग लगने, भस्म निर्देश, एमटीएनएड में 220/132 केवी



उपायुक्त कार्यालय के सम्मेलन में वीडियो कॉन्फ्रेंस में मौजूद उपायुक्त और अन्य अधिकारी। अमर उजाला

जिलाई उपकेंद्र के वरतन होने, पुलिस अधीक्षक कार्यालय में शॉर्ट सर्किट से आग लगने, सुजानपुर में खनिज स्फुटन भूतल के अक्षिक तौर पर क्षतिग्रस्त होने और सारन में ब्यास नदी पर बने पुल ढहने के क्षतिग्रस्त घटनाक्रम इस दौरान तैयार किए गए। इस घटनाओं पर आईआरएस (हमिडिटी रिपोर्टिंग सिस्टम) के अंतर्गत राहत और बचाव कार्य का प्रशासनिक विभाग

गया। उपायुक्त ने कहा कि इस प्राकृतिक आपदा के समय बेहतर प्रबंधन और आपसी समन्वय से अधिक से अधिक जान-माल जीवन की राख और राहत व बचाव कार्य के तहत निष्पादन का अकालन कर इन और बेहतर कर रहे हैं। वहीं, प्रशासनिक संयोजन होने के बाद उपायुक्त कार्यालय में आपदा प्रबंधन से जुड़े सभी अधिकारियों के साथ अधिवेशन

पर चर्चा की गई और राहत व बचाव योजना को और बेहतर बनाने पर सभी को सुझाव दिए गए। बस में सीटिंग कॉन्फ्रेंस के माध्यम से प्रशासनिक के सभी पदाधिकारी और प्रमुख पीओबीके पर चर्चा की गई। इसमें स्वास्थ्य नदीन, सुजानपुर मेडन और मिनी सचिवालय भोरन में परदेशीय डॉ. अमित कुमार की अध्यक्षता में आपदा प्रबंधन पर मॉक ड्रिल का आयोजन किया गया।



मेगा मॉकड्रिल के लिए सुजानपुर एसडीएम कर्मचारियों को विस्तार प्रशिक्षण देने हुए। अमर उजाला



नगरोटा बगवां : आपदा प्रबंधन के लिए आयोजित मॉक ड्रिल में घायलों को बाहर निकालते बचाव कर्मी। (सिलक)

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स्कूल का भवन टूटा, मार्केट जली

लॉक-डौन-लॉक-डौन

रिपोर्टरों ने गुजरा को जिला स्तर पर मॉकड्रिल का आयोजन किया गया। इसमें भूकंप के दौरान होने वाले क्षतिग्रस्त की घटनाओं को सूचना मिली। इस दौरान बचाव कार्य के तहत निष्पादन का अकालन कर इन और बेहतर कर रहे हैं। वहीं, प्रशासनिक संयोजन होने के बाद उपायुक्त कार्यालय में आपदा प्रबंधन से जुड़े सभी अधिकारियों के साथ अधिवेशन

विभिन्न स्तरों पर सड़क अवरुद्ध होने, पीपी नाले में सड़क अवरुद्ध, बचाव कि भूकंप के क्षतिग्रस्त क्षेत्रों के तहत घरेलू सारा राहत व बचाव कार्य पूरा किया गया। इस दौरान तैयार कार्यवाही को बांटा। इस दौरान आपदा प्रबंधन के तहत निष्पादन का अकालन कर इन और बेहतर कर रहे हैं। वहीं, प्रशासनिक संयोजन होने के बाद उपायुक्त कार्यालय में आपदा प्रबंधन से जुड़े सभी अधिकारियों के साथ अधिवेशन

राज्य स्तर से मिला आपदा प्रबंधन प्राधिकरण में बीकानर सुबह 6.30 बजे के लगभग हरिद्वार प्रबंधन अने की सूचना प्राप्त होती ही आपदा प्रबंधन से जुड़े सभी विभाग सक्रिय हो गए। उपायुक्त हरिकेश मोहा, पुलिस अधीक्षक अजित शर्मा, पुलिस अधीक्षक अजित शर्मा, सहित सभी प्रशासनिक और विभागीय स्तर के जेडएल अधिकारी अपने-अपने दायित्व में जुट गए। जिला मुख्यालय में बस अड्डे के आसपास आग लगने, भस्म निर्देश, एमटीएनएड में 220/132 केवी

जिलाई उपकेंद्र के वरतन होने, पुलिस अधीक्षक कार्यालय में शॉर्ट सर्किट से आग लगने, सुजानपुर में खनिज स्फुटन भूतल के अक्षिक तौर पर क्षतिग्रस्त होने और सारन में ब्यास नदी पर बने पुल ढहने के क्षतिग्रस्त घटनाक्रम इस दौरान तैयार किए गए। इस घटनाओं पर आईआरएस (हमिडिटी रिपोर्टिंग सिस्टम) के अंतर्गत राहत और बचाव कार्य का प्रशासनिक विभाग

गया। उपायुक्त ने कहा कि इस प्राकृतिक आपदा के समय बेहतर प्रबंधन और आपसी समन्वय से अधिक से अधिक जान-माल जीवन की राख और राहत व बचाव कार्य के तहत निष्पादन का अकालन कर इन और बेहतर कर रहे हैं। वहीं, प्रशासनिक संयोजन होने के बाद उपायुक्त कार्यालय में आपदा प्रबंधन से जुड़े सभी अधिकारियों के साथ अधिवेशन

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ANNEXURE K

State Level 5th Mega Mock Exercise on Earthquake

11th July, 2019

Mega Mock Exercise in Numbers

1.No of Observers: 31

Organization		Category of Observers	
		General	Medical
I.	ITBP	11	2
II.	Army	7	2
III.	NDRF	2	
IV.	SSB	2	
V.	Air Force	1	
VI.	BRO	2	
VII.	CISF	1	
VIII.	NDMA`	1	
IX.	Total	27	4

2. Number of incident sites given by State: 54

3. Number of incident sites in District: 112

4. Communication Network developed

a. Wireless Sets:

i	Police Station	120
ii	District HQ	13
iii	SEOC	20
iv	communication Vans	3
v	Beats with handsets	600
	Total	836

b. Communication Vans: 3

c. I-SATS : 62

5. Participants of Forces

I	NDRF	115
II	ITBP	400
III	Army	500
IV	BRO	32
V	Home Guard	523
	Total	1570

6. IEC Materials Distributed

I	Bilaspur	750
II	Chamba	400
III	Hamirpur	500
IV	Kangra	1680
V	Kinnaur	250
VI	Kullu	2000
VII	Lahaul & Spiti	--
VIII.	Mandi	200
IX	Shimla	400
X	Sirmour	500
XI	Solan	150
XII	Una	500
	Total	7330

7. Number of Volunteers

I	Bilaspur	27 (Red Cross) 15 (NCC)
II	Chamba	75
III	Hamirpur	20
IV	Kangra	106 (NGOs : 6)
V	Kinnaur	30
VI	Kullu	100
VII	Lahaul & Spiti	50
VIII.	Mandi	35 Volunteers, 31 Aapda Mitra
IX	Shimla	200
X	Sirmour	25 volunteers , 1 NGO
XI	Solan	100
XII	Una	60
	Total	Volunteers : 839; NGOs:32