

15 -ാം കേരള നിയമസഭ

8 -ാം സമ്മേളനം

നക്ഷത്ര ചിഹ്നം ഇല്ലാത്ത പോദ്യം നം. 1514

07-02-2023 - ൽ മറുപടിയ്ക്ക്

മോക്ക് ഡ്രിൽ അന്വേഷണം

പോദ്യം		ഉത്തരം	
ശ്രീമതി. ഉമ തോമസ്, ശ്രീ എൽദോസ് പി. കുന്നപ്പിള്ളിൽ, ശ്രീ ടി.സിദ്ദിഖ്		ശ്രീ. പിണറായി വിജയൻ (മുഖ്യമന്ത്രി)	
(എ)	ദുരന്ത നിവാരണ അതോറിറ്റി സംഘടിപ്പിക്കുന്ന മോക്ക് ഡ്രിൽ പാലിക്കേണ്ട നടപടിക്രമങ്ങൾ എന്തൊക്കെയാണെന്ന് വിശദമാക്കാമോ;	(എ)	മോക്ക് ഡ്രിൽ നടത്തുന്നതുമായി ബന്ധപ്പെട്ട് ദേശീയ ദുരന്ത നിവാരണ അതോറിറ്റി പ്രസിദ്ധീകരിച്ച കൈപ്പുസ്തകവും Ltr. No. 02/326/Ops/2022/827 dated 5-12-2022 എന്ന കത്ത് പ്രകാരം ദേശീയ ദുരന്ത നിവാരണ അതോറിറ്റി നൽകിയിട്ടുള്ള നിർദ്ദേശങ്ങളും സംസ്ഥാന ദുരന്ത നിവാരണ അതോറിറ്റി പുറത്തിറക്കിയ മാർഗ്ഗരേഖയും അനുബന്ധം 1, 2, 3 ആയി ചേർക്കുന്നു.
(ബി)	ദുരന്ത നിവാരണ അതോറിറ്റി സംഘടിപ്പിച്ച മോക്ക് ഡ്രിൽനിടെ കല്ലുപ്പാറ തുരുത്തിക്കാട് പാലത്തിങ്കൽ കാക്കരക്കുന്നിൽ യുവാവ് മുങ്ങി മരിച്ച സംഭവത്തിൽ മോക്ക് ഡ്രിൽ നടത്തുമ്പോൾ പാലിക്കേണ്ട നടപടിക്രമങ്ങൾ, മുൻകരുതലുകൾ എന്നിവ പാലിക്കപ്പെടാതിരുന്നിട്ടുണ്ടോ; വിശദമാക്കാമോ;	(ബി)	അപകടവുമായി ബന്ധപ്പെട്ട വകുപ്പുതല അന്വേഷണം നടത്തുന്നതിലേയ്ക്കായി സ.ഉ(സാധാ)നം 10/2023/ ഡിഎംഡി തീയതി 07.01.2023 പ്രകാരം ലാൻഡ് റവന്യൂ കമ്മീഷണറെ ചുമതലപ്പെടുത്തി ഉത്തരവായിട്ടുണ്ട്. അന്വേഷണം നടന്നുവരുന്നു.
(സി)	പ്രസ്തുത സംഭവത്തിൽ അന്വേഷണം നടത്തിയിട്ടുണ്ടോ; വിശദമാക്കാമോ?	(സി)	അപകടവുമായി ബന്ധപ്പെട്ട വകുപ്പുതല അന്വേഷണം നടത്തുന്നതിലേയ്ക്കായി സ.ഉ(സാധാ)നം 10/2023/ ഡിഎംഡി തീയതി 07.01.2023 പ്രകാരം ലാൻഡ് റവന്യൂ കമ്മീഷണറെ ചുമതലപ്പെടുത്തി ഉത്തരവായിട്ടുണ്ട്. അന്വേഷണം നടന്നുവരുന്നു.

സെക്ഷൻ ഓഫീസർ



MOCK EXERCISES

CAPACITY BUILDING THROUGH FORMAL TRAINING



REFORMS THAT TRANSFORMED



NATIONAL DISASTER MANAGEMENT AUTHORITY
MINISTRY OF HOME AFFAIRS, GOVERNMENT OF INDIA

CAPACITY BUILDING THROUGH FORMAL TRAINING

Introduction and background

Absence of formal mechanisms for tackling disaster

India, with its vast geographical area of 329mha and varied geo-climatic conditions, is vulnerable to most types of natural hazards (floods; earthquake; cyclones) and manmade disasters (including chemical, biological, radiological and nuclear (CBRN), oil spills, forest fires). Prior to the Odisha super cyclone in October 1999 and the Bhuj earthquake in January 2001, disaster management in India was characterized by the following features:

- (a) The focus was on drought and famine.
- (b) There was no formal response mechanism, leading to severe shortcomings in tackling disasters. The overall approach was reactive and relief-centric.
- (c) There was no formal training (e.g., mock exercises) for capacity building to tackle diverse hazards.





Response agencies need to interact with their communities, and make them familiar with the essential drill of disaster response.



- Shri Narendra Modi, Prime Minister
AMCDRR, 2016



Guidelines for Incident Response System, for 'whole-of-the-government' response

In 2005, the Government of India enacted the Disaster Management Act, The Act proposed to establish disaster management authorities at national, state and district levels. Under its specified powers and functions, the National Disaster Management Authority issued guidelines for an 'Incident Response System' (IRS). IRS is intended to be the preferred disaster response mechanism for states/union territories (UTs) and their districts in the event of any type of hazard or disaster, big or small. Disaster management requires a 'whole-of-the-government' approach and response, and one of the main characteristics of the IRS is facilitation of such an integrated, multi-departmental, synergistic response.

Capacity building

Post-2005, the NDMA began conducting mock exercises as a means of capacity building, most of which were held at the district level.

Challenges in capacity building

In spite of these capacity-building measures, there was low awareness of the following aspects of disaster management:

- (a) Incident Response System (IRS), and incident response teams (IRTs).
- (b) Structuring of the teams/task forces/groups under the IRTs for response, relief and restoration tasks.

Enabling technologies for effective disaster management.

Review of the Mock Exercise Programme

In mid-2016, a review of the Mock Exercise Programme was conducted at NDMA. This review observed that:

- ✧ As most of the mock exercises had been conducted at the district level, awareness and capacity building at the state/union territory level had lagged. This also affected the overall coordination of response to disasters.
- ✧ Although GoI had established a number of agencies for putting out hydrological, meteorological, seismic and geomorphological information, utilization by the states/union territories of the forecasts and alerts by the agencies was sub-optimal.
- ✧ There was lack of awareness among the states/union territories and their respective districts about agencies who are working on consolidating core data, hazard-specific data and geospatial data to support disaster management.



Earlier, in India, disaster management was 'response' centric. Now it is based on prevention, preparedness, action, relief and rehabilitation.



- Shri Amit Shah, Union Home Minister
Conference of SDRF, Civil Defence,
Home Guards & Fire Services (29 Jun 2019)



Leading from the front - Hon'ble Prime Minister of India Shri Narendra Modi

The Hon'ble Prime Minister of India, Shri Narendra Modi, presented a ten-point agenda at the Asian Ministerial Conference on Disaster Risk Reduction held in November 2016 in New Delhi. The agenda was to provide an impetus to disaster risk reduction (DRR) efforts, both in India and the entire Asia-Pacific region. In this agenda, *inter alia*, the following points were emphasized:

- ✧ The need to leverage technology to enhance the efficiency of India's disaster risk management efforts.
- ✧ The need to build on local capacity and initiative, and take advantage of traditional best practices and indigenous knowledge.

Restructuring of the Mock Exercise Programme

Taking into account the review of the exercise and the directions of the Hon'ble Prime Minister, NDMA decided to restructure its Mock Exercise Programme. This resulted in:

- ✧ Enhancement and expansion of the exercise to cover many administrative levels: It was decided that instead of the NDMA running mock exercises mostly at the district level, the exercises would henceforth be conducted at the state or multi-state level, with every district in each State/UT participating. This would ensure better integration and effective control by the states during disasters.
- ✧ Hazard risk vulnerability-appropriate mock exercises: Every state mock exercise would be based on the hazard risk of the individual State/UT and its districts. In specific cases, where hazard risk varies for different districts of the state, mock exercises would be conducted for individual districts too.
- ✧ Enhanced training content: Technologies relevant to disaster management and methods of leveraging them for disaster risk management would also be included in the training.



Aims and objectives of the mock exercise

The aim of conducting mock exercises is to assist the States/UTs and their districts in building inclusive capacity to competently prevent, or mitigate, or prepare, or handle the aftermath of any hazard/ disaster utilizing standardized, pre-prepared mechanisms and formats, with pre-trained, pre-designated officials and nominated resources/equipment.

Mock exercises – the methodology

Currently, mock exercises are part of a robust process that commences with the formulation of an annual calendar prior to commencement of the next fiscal. The current design of the mock exercise, and the subjects and aspects of disaster management on which training is imparted, are described next.

The table below shows at a glance the four-step process in a mock exercise, which is conducted by an NDMA Coordinator in conjunction with State/UT authorities:



Fig 1: Step-I of the Mock Exercise process – training of officials



Fig 2: Step-I of the Mock Exercise process - Orientation & Coordination Conference

Table 1 : Mock exercise process

Step	Event	Participants
Step-I	<p>Training in the Incident Response System and associated aspects by the NDMA Coordinator:</p> <ul style="list-style-type: none"> ✧ Part-I: Reiteration of the importance of disaster management, its linkage to disaster risk reduction and sustainable development, and India's three-tier Disaster Response Mechanism ✧ Part-II: Training in the Incident Response System, including how to: <ul style="list-style-type: none"> ➤ Form Incident Response Teams (IRTs) ➤ Structure strike teams/task forces/groups for response, relief and restoration ✧ Part-III: How to leverage technology in support of disaster management. This includes: <ul style="list-style-type: none"> ➤ Resource mapping. ➤ Building situational awareness. ➤ Using geospatial resources. ➤ Fusing hazard-specific data, damage assessment data and core data. <p>Orientation & coordination conference: Here, the detailed modalities and preparations required for the impending mock exercise are discussed and finalised.</p>	<ul style="list-style-type: none"> ✧ District-level: Officials and other stakeholders – through video-conferencing ✧ State-level: Officials and other stakeholders – through physical presence at the video-conference
Step-II	Table-top exercise – conducted by the NDMA Coordinator	

Step	Event	Participants
Step-III	Mock exercise – by the NDMA Coordinator under the overall guidance of the chief secretary/additional chief secretary/secretary (disaster management) of the concerned state	Physical conduct/ participation at all levels as per charter of duties/responsibilities
Step-IV	<ul style="list-style-type: none"> ❖ After-action report by NDMA coordinator to NDMA. ❖ Final report by the State/UT to NDMA. ❖ Intimation of 'lessons learnt' and 'best practices' to the State/UT and, where required, to other States/UTs too 	NDMA, State/UT, jointly



Aspects of disaster management emphasized during step-I training and practised in Step-II/III:

- ❖ How to build a reliable, fail-safe communications structure for disaster management operations.
- ❖ The three elements that will ensure an expeditious, credible response in the wake of a disaster:
 - ❖ A disaster-resilient emergency operations centre (EOC); its components, equipping and functioning.
 - ❖ Importance of 'situation awareness' in the immediate aftermath of a disaster, and means of attaining it.
 - ❖ Importance of 'resource mapping' during normal/pre-disaster periods, and means of attaining resource awareness during a disaster.
- ❖ The National Early Warning System (NEWS); agencies comprising it and the web portals they are running; the information put out by each; and how to leverage this information for effective disaster management.
- ❖ How to leverage ISRO's geoportal - Bhuvan and the National Database on Emergency Management (NDEM) portal.
- ❖ Utilization of the Indian Disaster Resource Network (IDRN).
- ❖ Importance and utilization of GIS platforms.



Fig 3: Step-II : Table-Top Exercise (TTE)



Provision of funds to states/UTs for mock exercises

The Mock Exercise Programme is sustained by means of financial support provided to the states/UTs, with the NDMA allocating Rs. 1 lakh per district for conduct of a mock exercise.

The COVID-19 pandemic and reorientation of the Mock Exercise Programme

The four-step mock exercise process, and particularly step-III, requires the physical presence/participation of a very large number of officials and other stakeholders, including the public. In March 2020, it became evident following the outbreak of COVID-19 that physical gatherings of persons would have to be avoided.

In keeping with the recommended safety measures, the NDMA then proactively devised a short yet comprehensive online training package. This online training comprises:

- ✧ A review of a state's disaster management plans, its State Disaster Response Force (SDRF), and medical plan, as also its preparedness to manage the primary hazard threat.
- ✧ Steps I and II of the mock exercise process (i.e., training on the IRS and conduct of a table-top exercise).
- ✧ COVID-19 advisories, particularly on how to manage and conduct disaster management activities during the pandemic.

The online training is conducted through video-conferencing with officials at the State/UT and district levels participating from their respective locations.

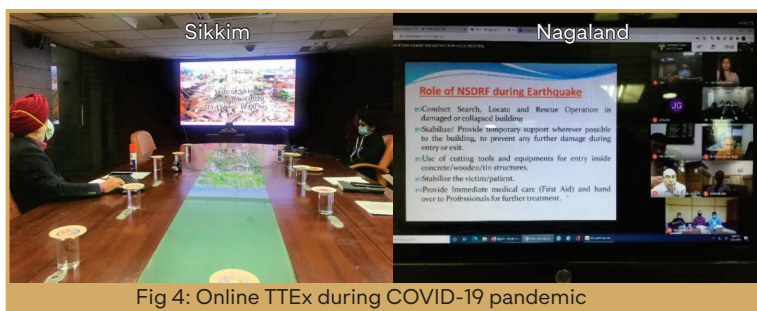


Fig 4: Online TTEX during COVID-19 pandemic



In FY 2020-21, NDMA has already conducted such online training for over 27 States/UTs, as at the time of publication of this booklet. NDMA aims to address every State/UT by the end of the current financial year.

Review by Hon'ble Home Minister

It was on 30 June 2020 that the Hon'ble Home Minister of India, Shri Amit Shah, carried out a review of the country's disaster management activities and thereafter directed that mock exercises should be conducted in all districts of the country at least once every three years for the following purposes:

- ❖ To ensure that every district can constitute and field trained teams for disaster response.
- ❖ To test the efficacy of every district's disaster management plans and its preparedness component.
- ❖ To bring in greater cohesion and coordination amongst, and between, different stakeholders.

It was also directed that on the day of a district's mock exercise, the fire and emergency services of the concerned district and of the State/UT shall also visit schools in their jurisdiction and conduct mock drills in 10 to 20 pre-identified schools in the district.

District-level Mock Exercise Programme by NDRF

In accordance with the directions of the Hon'ble Home Minister, the NDRF has been tasked with conducting mock exercises at the district level. This training is being implemented in phases, as indicated below:

Table 2: District-level programme

Phase	FY	Districts to be covered
Phase-I	2020-21 (1 Oct 2020 - 31 Mar 2021)	154
Phase-II	2021-22	Remaining districts
Phase-III	2022-23	

Other initiatives in disaster management

Joint humanitarian assistance & disaster relief (HADR) exercises: The Hon'ble Prime Minister Shri Narendra Modi had, during the December 2015 Combined Commander's Conference (CCC), directed that HADR exercises be conducted by the Armed Forces, involving all stakeholders, including Central Armed Police Forces (CAPFs) and the civil administration, down to municipal level. These HADR Exercises are being jointly planned as an annual calendar and coordinated by the HQ Integrated Defence Staff (IDS) and NDMA. The aim of these exercises is to foster joint planning and preparation towards effective inter-agency collaboration during disaster rescue and relief operations. Consequently, a number of joint HADR exercises have been held. The details are as below:



Table 3 : Joint HADR exercises

Lead Formation	Main Participants	Scenario	Date
Indian Navy (Naval Station, Karwar)	Naval Station, Karwar, NDMA, civil administration other stakeholders	Tsunami	18–20 May 2017
Eastern Air Command, Shillong	IAF, Indian Army, NDMA, NDRF, CAPF, State of Meghalaya	Landslides	06–08 Jun 2017
21 Corps, Indian Army	Indian Army, IAF, NDMA, NDRF, CAPF, State of Telangana (cities of Hyderabad & Secunderabad), other stakeholders	Urban Flooding	12 Sep and 23 Sep 2017
Central Air Command, Allahabad	NDMA, IAF, NDRF, CAPF, State of Uttar Pradesh, other stakeholders	Floods	25-26 Sep 2018
Headquarters, Tamil Nadu & Puducherry Naval Area	NDMA, IAF, Indian Coast Guard, NDRF, CAPF, State of Tamil Nadu, UT of Puducherry, other stakeholders	Cyclone and Urban Flooding	02-05 Aug 2019

International cooperation on disaster management

The Hon'ble Prime Minister of India, Shri Narendra Modi, has also stressed upon the following issues in his ten-point agenda on disaster risk reduction:

- ✧ Investment in global risk mapping for common understanding of disaster risks.
- ✧ Greater cohesion in international response to disasters.

Accordingly, as part of an international outreach and cooperation exercise in the field of disaster risk management, India has hosted and participated in a number of international disaster risk management programmes. Some of the important ones have been listed in the following table:

Table 4 : International Cooperation

Event	Hosted by	Participants	Date
Signing of Memorandum of Association (MoA) on establishment of BIMSTEC Centre for Weather & Climate (BCWC)	India. (India had put forward a plan to establish the BCWC)	BIMSTEC (Bay of Bengal Initiative for Multi-Sectoral Technical & Economic Cooperation)	4 May 2015
South Asian Annual Disaster Management Exercise (SAADMEx-2015)	India (at NCR/Delhi)	SAARC Countries (delegations and rescue teams from each of the SAARC nations i.e., Afghanistan, Bangladesh, Bhutan, India, Maldives, Nepal, Pakistan and Sri Lanka)	23–26 Nov 2015
1 st BIMSTEC Annual Disaster Management Exercise	India	19 representatives from the member states	10–13 Oct 2017
Meeting of the Indian Ocean Rim Association (IORA) Group on Disaster Risk Management	India (NDMA, in collaboration with the Ministry of External Affairs, NDRF and Indian Ocean Rim Association)	India, Australia, Bangladesh, Indonesia, Malaysia, Mozambique, Oman, Sri Lanka, South Africa	5–6 Feb 2019

Event	Hosted by	Participants	Date
Shanghai Cooperation Organization (SCO) Joint exercise on 'Urban Earthquake Search & Rescue', 2019, and 10th Meeting of Heads of SCO Countries' Departments of Disaster Prevention	India (New Delhi)	All member-countries of SCO	1-8 Nov 2019
2 nd BIMSTEC Disaster Management Exercise	India (Puri / Bhubaneswar, Odisha)		<ul style="list-style-type: none"> ✧ Preparatory Meeting – 15–16 Nov 2019 ✧ Disaster Management Exercise - 11–13 Feb 2020

Civil Defence and Community Mobilisation

In order to augment the in-house response capacity of states/UTs, emphasis is also being laid on the following schemes:

- ✧ Aapda Mitra' scheme.
- ✧ Training of SDRF and civil defence volunteers.
- ✧ Integration of NCC, NYKS, NSS, anganwadi workers, NGOs with specialization, Panchayati Raj Institutions, urban local bodies, etc., into the IRT's task forces/groups for response, relief and restoration.



Fig 6: Training of civil defence volunteers

The capacity building programme – a summary

The current capacity building programme is briefly summarized below

Table 5: Capacity-building programme

Institution / Organization	Activity
Lal Bahadur Shastri National Academy of Administration, state administrative training institutes and CAPFs/police academies	Foundation course in disaster management and Incident Response System
National Institute of Disaster Management	Progressive courses on Incident Response System and specific appointments in Incident Response Teams
National Disaster Response Force	Familiarization Exercises
	Mock drills for specific response force
	Training of state disaster response forces, Aapda Mitra, civil defence volunteers
	Schools – training in safety skills for a disaster
	District-level mock exercises
National Disaster Management Authority	Mock exercises at state/UT Level and/or multi-state Level



“ I am glad to note that with the active support from NDMA, the Government of Tripura was able to organise theme-based mock exercises (earthquake & flood) at the State, district and sub-district levels since the last few years. We need such continuous support from NDMA for testing our disaster management efficacy and for moving forward towards a disaster-resilient Tripura. The Government of Tripura is grateful for the initiative and support.”

- Shri Saradindu Choudhuri, IAS,
Special Secretary, Revenue (Disaster Management)
Government of Tripura



“ The State of Arunachal Pradesh had under the guidance of NDMA, conducted state level training on disaster management (earthquake scenario).

The training was attended by all concerned officials, organisations and Departments of Government of Arunachal Pradesh at state and district level, NDRF, CAPF, Armed Forces including the Border Roads Organisation and representatives of BSNL, local bodies, NGOs etc. The training was very useful as it brought out many lessons and led to adoption of many best practices ”

- Shri Dani Salu,

Secretary, Disaster Management,
Government of Arunachal Pradesh

Benefits of the Restructured Mock Exercise Programme and Related Initiatives

The restructured Mock Exercise Programme, the District Mock Exercise Scheme and the Joint HADR Exercises aim to optimize disaster risk management, and have resulted in the following outcomes:

- ✧ **Increased granularity:** mock exercises are now hazard-vulnerability-appropriate: Every mock exercise being conducted now is designed around the primary hazard risk of the State/UT and its districts. In the case of certain states, where hazard vulnerability varies for different districts, mock exercises are also conducted for individual districts.
- ✧ **Dynamic disaster management plans:** The exercises are ensuring that States/UTs and districts systematically evolve, implement and review their respective disaster management plans.
- ✧ **Resource awareness:** Clear identification of gaps in resources, manpower, equipment, communication, systems and protocols has been done, and positive feedback for upgradation of disaster management plans has been provided.



- ✧ **Greater stakeholder synergy:** The mock exercises have helped institutionalise the coordination between States/UTs, district authorities and all other stakeholders, including response forces like the National Disaster Response Force (NDRF), Central Armed Police Forces (CAPFs) and Armed Forces.
- ✧ **Leveraging of technology:** There is greater understanding and progressive induction and use of disaster management-related technologies such as UAVs/ drones, satellite imagery, 'ham' radio networks, SATCOM, geographic information technologies (GNSS; remote sensing) and GIS platforms. There is also greater understanding of the linkages between disaster risk reduction, disaster management and sustainable development.



“ The Nagaland State Disaster Management Authority (NSDMA) expresses immense gratitude to NDMA for the support extended in the training and capacity building programme. The support and guidance provided by NDMA has tremendously strengthened the disaster risk reduction initiatives and disaster management activities in the State of Nagaland. NDMA has guided the NSDMA in conducting a mega state-wide emergency response exercise, the Nagaland Emergency Preparedness Exercise (NePEX), Community First Responder (CFR) training, etc.”

- Shri Johnny Ruangmei,
Officer on Special Duty,
NSDMA, Government of Nagaland

- ✧ **Benefits to the community:** As outlined in the section titled 'Aims and Objectives', the benefits of the mock exercises reach to the community level when there is actual occurrence of a disaster. Some of the benefits are described below:
 - ✧ Less damage to life and property from disasters than used to be witnessed earlier.
 - ✧ The sustained effort of conducting mock exercises also involves community volunteers in coordination with the local administration. By participating in the familiarisation exercises (FAMEx) and mock exercises for specific hazards, the community's level of awareness about these disasters increases. This is enhancing the community's preparedness and resilience.
 - ✧ The programme has immensely contributed in capacity building of state disaster management authorities (SDMAs), district disaster management authorities (DDMAs), line departments, urban and rural local bodies, first responders and community volunteers.





“India's motto is
'Reform, Perform, Transform'.”

Prime Minister **Shri Narendra Modi**

भारत सरकार
Government of India

राष्ट्रीय आपदा प्रबंधन प्राधिकरण) प्रचलन प्रभाग(

NATIONAL DISASTER MANAGEMENT AUTHORITY (Ops Division)

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Mo. 02/326/Ops/2022/1827

Dated 05 Dec 2022

To,

Dr. A. Jayathilak, IAS

Additional Chief Secretary (Revenue & DM)

Govt of Kerala

(Email prl.secy.revenue@gmail.com)

Sub: Conduct of State Level Mock Exercise on Floods Disaster in Kerala

- Please refer to Govt. of Kerala Email dated 30th Nov 2022 regarding conduct of offline (Physical) Mock Exercise on Floods scenario for the State of Kerala.
- A State Level Mock Exercise (ME) on Floods Disaster scenario will be held for the State at Trivandrum in which all districts of the State will participate simultaneously as per the following phased program:-

Step	Event	Date	Participation
Stage-1	Orientation & Coordination Conference (In VC Mode)	19.12.2022 (1100 hrs to 1300 hrs)	<ul style="list-style-type: none"> Officials and all stakeholders at the State level. Officials and all stakeholders in Districts
Stage-2	Table Top Exercise (TTE) at SDMA	27.12.2022	<ul style="list-style-type: none"> Other relevant stakeholders (e.g. NDRF, CWC, Army etc)
Stage-3	Mock Exercise (Physical)	29.12.2022	<ul style="list-style-type: none"> Physical participation at all levels as per charter of duties / responsibilities
Stage-4	Submission of Report by the State	10.01.2023	To be submitted by Email as well as a spiral bound document in duplicate.

Disaster Response Mechanism

- The ME will be based on the Incident Response system (IRS). The State administration should therefore organize the response to the simulated disaster through Incident Response Teams (IRTs).

Aim and Objectives – ME

- The aim and objectives of the ME are as under:-
 - Highlight the roles and responsibilities of various stakeholders as per IRS and institutionalise the use of IRS in the response mechanism.
 - To review the DM plan and associated SOPs of the State and its districts, as well as individual DM plans of each department at state & district level.
 - Ensure coordination among Emergency Support Functions at the District level.
 - Generate Public Awareness by involving the media, LGBs (Local Governing Bodies), NGOs and Community.
 - Identify gaps, if any, in the resources, communications, response capabilities etc.

Attendance

5. The list of various stakeholders who are required to attend the Orientation Cum Coordination Conference, Table Top Exercise and Mock Exercise is given at **Appendix A**. The State is requested to ensure due participation in order to derive maximum benefit from the training. It is also requested that **no other major State level commitments involving the key personnel be planned concurrently**.

Stage - 1 (19.12.2022) - Orientation & Coordination Conference

6. **Aim.** To discuss and outline the detailed modalities and preparations required for the ME.
7. **Venue.** The conference will be **held in the VC mode (link created by NDMA)**. All disaster related functionaries of the State, districts and representatives of Central Agencies will attend. **All attendees are requested to log in to the VC link by 1040 hrs on 19th Dec 2023.**
8. **Conduct.**
 - (a) Discussion on the overall scenario for the ME, considering the State's vulnerability to floods.
 - (b) Preparatory actions to be undertaken by the State for the ME.
 - (c) Discussions on and evolution of various scenarios / simulations expected in each District participating in the ME in conjunction with the SDMA.
 - (d) Detailed briefing by the NDMA Exercise coordinator on the conduct of the TTE and the ME.
 - (e) Nomination of sites (usually 05 per District) for various simulations during the ME and detailing of the quantum of response (manpower, equipment, other resources) expected to be deployed for each simulation. Sites to be identified by the DDMA/SDMA.
9. **Observers.** The State and its Districts will be take steps to finalize suitable observers (from the locally stationed Armed Forces/ CAPFs / Police) for each simulation site.
10. **WhatsApp Group.** The KSDMA shall create a WhatsApp group by 17th Dec 2022 for the purpose of this ME and relevant information should be posted on it on as required basis. The group should include the NDMA Exercise coordinator, Maj Gen Sudhir Bahl (Retd), Consultant Gde II (ME & IRS); Mob No. 9501855369.
11. **Steering and Attendance.**
 - (a) **Chairperson.** The Coordination and Orientation Conference should preferably be chaired by the Additional Chief Secretary (DM) of the State.
 - (b) **Steering.** The Coordination & Orientation Conference will be conducted by NDMA Exercise Coordinator [Maj Gen Sudhir Bahl (Retd), Consultant Gde II (ME & IRS); Mob No. 9501855369], duly assisted by the Chair.
 - (c) **Attendance.** Participation is through the VC mode and maximum attendance must be ensured (see **Appendix A**). Maximum officials should **preferably be seated at the State HQ :-**
 - (i) All the Nodal Officers of the State and the Districts.
 - (ii) Members of the SDMA, SEC, SEOC.
 - (iii) Heads of the Line Department / Directorates of the State.
 - (iv) Heads / Senior representatives of the NDRF, SDRF, HG & CD, NCC, NYKS, NSS, Fire Services / Fire & Emergency Services, State ATIs, Railways, Airport Authority of India, Armed Forces and CAPFs co-located in the State,

National Organizations (including scientific labs or production facilities), BSNL, private cellular phone service providers.

- (v) Representatives –LGBs (Local Governing Bodies) / ULBs, Local NGOs.
- (vi) All DCs, SSP/ SP, Heads of line departments / directorates of the Districts.
- (vii) Members of the DDMA, DEOC, Community Volunteers, local NGOs.

12. **Role of Nodal Officers**. On return to their respective Districts after the Conference, the Nodal officers are expected to carry out detailed briefings to various stakeholders in their respective Districts and ensure preparation of the nominated simulation sites to ensure smooth conduct of the ME. The districts may also undertake rehearsals of various drills/SOPs as part of preparation.

Stage-2 (27.12.2022) – Table Top Exercise (TTEx)

13. **Aim**. To exercise key disaster managers in their roles and responsibilities on various simulated emergency situations, particularly on the likely scenarios to be played out in the impending ME, discern gaps prior to the ME and evolve viable response plans.

14. **Venue**. The TTEx will be held at the State HQ and would **require a hall** with:

- (a) Adequate seating
- (b) Video projection equipment, and
- (c) Video conferencing arrangements with the participating Districts/ Stakeholders. VC Link for TTEx will be **generated by the State** and be **circulated to all concerned, including NDMA, by 24th Dec 2022**.

15. **Conduct**.

- (a) **Presentation of DMPs**.
 - (i) The State will confirm updation of all DMPs, including Departmental, and activation of all IRTs in their respective jurisdictions.
 - (ii) Presentation of DM plans by nominated districts/ departments.
- (b) **TTEx**. At the outset the NDMA Exercise Coordinator will conduct a brief recap of the IRS system. He will thereafter conduct the TTEx based on scenarios evolved in conjunction with the SDMA. The Districts and other central stakeholders will attend through video conferencing. The TTE will involve stake holders giving their detailed response to each 'painted' disaster-related situation.
- (c) After the summing up of the TTEx, the Districts would be requested to address the gaps observed, if any.
- (d) **Review of Preparation for ME**.
 - (i) The district wise summary of the location of various IRS facilities (e.g. staging area) and finalised simulation sites (precise location) will be shared by the SDMA.
 - (ii) The SDMA will give out the list of observers and their tasking, district wise.
 - (iii) The nominated Observers will be briefed by the NDMA Exercise Coordinator and the Observer's Format explained. A separate WhatsApp group for observers will be functional by 1000 hrs, 26th Dec 22.

16. **Steering and Attendance**.

- (a) **Chairperson**. The **Chief Secretary**, as the Responsible Officer of the State and the Chairperson of the SEC, (or, in his absence, the Additional Chief Secretary) along with the

NDMA Member present for the event will co-chair the TTEEx.

- (b) Steering. The TTEEx will be conducted by the NDMA Exercise Coordinator.
- (c) Attendance: same as per Para 11 above.

17. Media. The media should be given detailed briefings and press releases, including a curtain raiser, and briefs on the various events. Advisories should also be disseminated on TV and Radio that the events are an exercise and not an actual disaster.

Step- 3 (29.12. 2022) – Mock Exercise

- 18. Aim. Stated at Para 4 above.
- 19. Steering. The ME will be conducted by the NDMA Exercise Coordinator under the overall guidance of the **Chief Secretary** / Additional Chief Secretary (DM) of the State and the **present NDMA Member**.
- 20. Activation. The following would be activated:
 - (a) **State level**: The SEC, SDMA and the SEOC.
 - (b) **District level**: The DDMA's and the DEOCs.
- 21. Venue.
 - (a) State Level. Preferably conducted from the SEOC, which should have a video conferencing facility, failing which, the ME would be conducted from the Video Conference Room in the State HQ.
 - (b) District Level. The DEOC / Video Conferencing Room for the apex level disaster managers; others will participate from the various IRS facilities activated and the disaster simulation sites on ground.
- 22. Conduct.
 - (a) The ME would commence at the agreed time through a warning about the occurrence of the simulated event (message from EOC, sounding of sirens, public address mechanisms etc).
 - (b) The SEOC and the DEOC switch to alternate means of communications (wireless including SATCOM) and commence the process of gathering information about the scale of the damage in order to build situation awareness about the simulated disaster.
 - (c) The procedure to establish the Staging Area(s), Incident Command Post, Relief Camps, TRIAGE and Medical Aid Posts and other IRS facilities is initiated. Hospitals, civil and private are asked to get ready to receive casualties and to 'surge' their capacity.
 - (d) Orders are issued for clearing road access to Critical Facilities.
 - (e) The Incident Action Plan is prepared / reviewed.
 - (f) Thereafter, various scenarios would be painted to the State and particularly the Districts. Responders commence activities related to Search-and-Rescue, casualty evacuation, area evacuation etc. The response, particularly at the District level, by the local and community responders and Aapda Mitras, NGOs, SDRF etc to each simulation shall be assessed by the Observers on ground as well as by the NDMA Exercise Coordinator.
 - (g) Specialist response by the NDRF is carried out.
 - (h) The NDMA team will visit various IRS facilities on ground and take stock.
 - (i) District level officials at various places and the Observers should upload pictures of the events in progress on the WhatsApp Group.

(j) The ME shall be called off at an appropriate time by the NDMA Exercise Coordinator in conjunction with SDMA, after which the Observers should submit the Observer's Format at the SDMA/ DDMA. Additionally all stakeholders will submit the Self Assessment Format. Both will be compiled and inferences included in the State After Action Report.

(k) Debriefing will be carried out jointly by the NDMA Exercise Coordinator and the Additional Chief Secretary (DM) with all the stakeholders physically/ through Video Conferencing.

23. **Video Conferencing.**

(a) A reliability check of the video conferencing facilities may kindly be carried out prior to 19th Dec 2022.

(b) The State may kindly ensure that the NIC incorporates NDMA also as one of the connections in the Video Conference during the TTEx and the ME.

24. **Signage.**

(a) **Venues of the Coordinating Conference, TTEx and ME:** a **banner** should be displayed at the said venues as per format given at **Appendix B**.

(b) **IRS Facilities:** Appropriate **signboards/ banners** should be placed at all IRS facilities and simulations sites. All IRT appointments should wear appropriate armbands and responders to wear jackets.

25. The contact details of the State Coordinator and the NDMA Coordinator are given below:-

State	NDMA
Dr Shekhar L. Kuriakose Head of State EOC & Member Secretary KSDMA Mob: 9400323122 Email: keralasdma@gmail.com)	Maj Gen Sudhir Bahl (Retd) Consultant Gde II (ME & IRS), NDMA Mob: 9501853369 Email: srcons-me.sb@ndma.gov.in

26. The representatives of all Ministries/ Departments of Central Government at the state and district levels may also be requested to attend the above events.

Nawal
9/12/22
(Nawal Prakash)
Joint Advisor (Ops)

Copy to:

1. Chief Secretary
Govt of Kerala
2. Headquarters Integrated Defence Staff
Ministry of Defence, Room No.15, South Block,
New Delhi -110011.
3. Directorate General, NDRF
NDCC-II Building, Jai Singh Road,
New Delhi.
4. Director General, BSF
CGO Complex, New Delhi
5. Director General, CRPF
CGO Complex, New Delhi
6. Director General, CISF,
CGO Complex, New Delhi

- for favour of information please.

Army/ CAPFs/ NDRF are requested to kindly provide observers in all districts based on their deployment. NDRF and CAPF are also requested to provide columns for Task Forces in respective districts. Sub Area Commanders, senior most officers of CAPFs in the State and Comdt NDRF Battalion are also requested to attend the above events at the State HQ.

- | | |
|--|--|
| 7. DG, NCC
Sector 5, RK Puram, New Delhi, Delhi 110066 | - DG NCC is requested to nominate officer to attend all three events. |
| 8. Director General , IMD
IMD Complex, Mausam Bhavan
Lodhi Road, New Delhi | Request nominate Scientist from local office to participate in all three events. |
| 9. Chairman
Central Water Commission
New Delhi | - Request nominate Scientist from local office to participate in all three events |
| 10. Chairman
Airport Authority of India | - Request to nominate suitable officer from Kerala office to participate in all 03 events. |
| 11. General Manager
Southern Railway Zone
Indian Railway | - Request to nominate officer to participate in all 03 events. |

NOO

Internal

1. PPS to Member & Secretary I/C, Member (SAH), Member (RS), Member (KSV), NDMA
2. Joint Advisor (Ops), NDMA
3. Joint Advisor (IT & Comn), NDMA (request coordinate and activate VC link with Kerala SEOC on the coordinating conference and exercise dates)
4. AA (IT & Comn), NDMA
5. Duty Officer (CR)/(Ops)
6. AA (Ops)
7. Maj Gen Sudhir Bahl (Retd), Consultant Gde II (ME & IRS), NDMA
8. Consultant (Social Media) and Consultant (Landslides), NDMA
9. SO (G) - Please book Ops Room on 19 Dec 22 from 1045 to 1315 hours.

Appendix A

Suggested List of Participants**1. State HQ**

- a) Chief Secretary and/or his/her team and SDMA, SEC
- b) Relief Commissioner/Secretary (DM)
- c) DG (P)/Commissioner of Police of the State
- d) All Members of State IRT
- e) Director Fire Services
- f) Local Commanders of Army, Air Force, NDRF & CAPFs
- g) Commandant / Sr Representative from SDRF
- h) Reps of Medical and Veterinary
- i) Rep of State Electricity Board
- j) Rep of State Transport
- k) Reps of Telecom Service providers
- l) Rep of State ATI, Railways and the Airport Authority of India
- m) Heads of relevant Departments of the State
- n) Local NGO, UNDP reps (if any)
- o) Any other Stake holders decided by State
- p) OIC Civil Defence, Home Guard, NCC, NYKK, NSS

2. District HQ

- a) DM/DCs and his / her team (DDMA), ADC/ADM
- b) DCP/Superintendent of Police
- c) District Revenue Officers (Sub Division, Tehsil & Block)
- d) Head of DEOC
- e) District Fire Officer
- f) District Medical Officer
- g) District Industries Officer
- h) Veterinary Officer
- i) State Electricity Board
- j) Water Supply Department
- k) Public Health Engineering
- l) District Supply Officer
- m) Public Works Department
- n) District Transport Officer
- o) Food & Supplies and PDS
- p) Reps from the Municipal Corporations
- q) District Public Relations / Media Officer
- r) Local Governing Bodies
- s) Community Volunteers, local NGOs
- t) Army / NDRF / CAPFs units located in District

FORMAT FOR BANNER FOR TTE_x AND MOCK EXERCISE VENUES

**STATE LEVEL MOCK EXERCISE
ON FLOODS DISASTER
ORGANISED BY THE
STATE OF KERALA
IN COLLABORATION WITH
NATIONAL DISASTER MANAGEMENT AUTHORITY
MINISTRY OF HOME AFFAIRS, GOVT. OF INDIA**

(Banners to be of appropriate size and displayed prominently at venues)

Guidance Notes for the Kerala State Wide Mock Exercise – 29-12-2022

In light of the Video Conference held on 19-12-2022 and as directed by National Disaster Management Authority, the following districts are allocated for the respective forces to deploy Observers.

The Directorate of Health Services and Fire & Directorate of Animal Husbandry shall be ready to present the departmental disaster management plan. Please note the presentation shall have only 6 to 7 slides. Template will be circulated subsequently.

The names and designations of the observers to the districts shall be informed on 27-12-2022 in the Table Top Exercises, by the respective forces.

For any expenses related to the transportation of central forces and provisioning of vehicles for the mock drill, the instructions as in the Orange Book 2022 will be valid.

The 5 sites selected in the district (at least one per Taluk) for the conduct of the mock exercise may be informed on 23-12-2022 via return email in the format attached, by the DEOC to SEOC.

Sites selected for Mock Exercise and allied IRS facilities

Sl. No	Place Name for Mock Exercise	Panchayat	Taluk	District	Lat/Long	Name of Building for Incident Command Post	Name of Building for Staging Area	Name of Building for Medical	Site selected for air drop/roof top rescue (Only for Idukki & Ernakulam – airdrop;	Lat/long of the site selected for airdrop/roof top
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								1 Aid post	Thiruvananthapur am – roof top rescue)	rescue simulation)
Sit e 1										
Sit e 2										
Sit e 3										
Sit e 4										
Sit e 5										
Refer: https://sdma.kerala.gov.in/wp-content/uploads/2021/08/IRS-handbook-malayalam-jjg.pdf										

Instructions to Local Government (panchayath/municipality/corporation)

1. At least 50 volunteers to simulate evacuation
2. Arrange an Incident Command Post (a building near the simulation site for the onsite incident commander and general staff to work from) - refer <https://sdma.kerala.gov.in/wp-content/uploads/2021/08/IRS-handbook-malayalam-jjg.pdf> to know about ICP
3. Arrange a Medical Aid Post (a building near the simulation site for receiving injured or those who are in need of immediate medical attention and for the medical workers to station)

4. Arrange vehicles to evacuate those who are evacuated to the relief camps
5. Arrange ambulances to evacuate if anyone is injured

The concerned village officer must

1. Identify the relief camp near the simulation site - ensure electricity, food, water, sanitation
2. Arrange a staging area (a separate building near the relief camp) refer <https://sdma.kerala.gov.in/wp-content/uploads/2021/08/IRS-handbook-malayalam-jjg.pdf> to know about Staging Area
3. Coordinate the staging area for receiving and distributing relief
4. Arrange a Camp for the relief and response workers (a separate building near the relief camp) refer <https://sdma.kerala.gov.in/wp-content/uploads/2021/08/IRS-handbook-malayalam-jjg.pdf> to know about Camp

The concerned Tahasildar must

1. Arrange an Incident Command Post (the TEOC or an adjacent room. Mark the room with ICP Symbol) - refer <https://sdma.kerala.gov.in/wp-content/uploads/2021/08/IRS-handbook-malayalam-jjg.pdf> to know about ICP
2. Arrange vehicles to evacuate those who are evacuated to the relief camps if additionally needed at the sites
3. Arrange ambulances to evacuate to send to sites of emergency if additionally needed at the sites

4. Arrange a staging area (identify and mark a large room in the Taluk Office with the Staging Area symbol or identify a building near the Taluk office to be used as staging area. Need not be requisitioned, just identify) refer <https://sdma.kerala.gov.in/wp-content/uploads/2021/08/IRS-handbook-malayalam-jjg.pdf> to know about Staging Area
5. Coordinate the staging area for receiving and distributing relief
6. Arrange a Camp for the relief and response workers (identify an accommodation facility near the Taluk Office for relief and response workers to camp. If a separate building it need not be requisitioned, just identify) refer <https://sdma.kerala.gov.in/wp-content/uploads/2021/08/IRS-handbook-malayalam-jjg.pdf> to know about Camp

The concerned DDMA must

1. Arrange an Incident Command Post (the DEOC or an adjacent room) - refer <https://sdma.kerala.gov.in/wp-content/uploads/2021/08/IRS-handbook-malayalam-jjg.pdf> to know about ICP
2. Arrange vehicles to evacuate those who are evacuated to the relief camps if additionally needed at the sites
3. Arrange ambulances to evacuate to send to sites of emergency if additionally needed at the sites
4. Arrange a staging area (identify and mark a large room in the collectorate with the staging area symbol or identify a building near the collectorate to be used as staging area. If a separate building it need not be

requisitioned, just identify) refer <https://sdma.kerala.gov.in/wp-content/uploads/2021/08/IRS-handbook-malayalam-jjg.pdf> to know about Staging Area

5. Coordinate the staging area for receiving and distributing relief
6. Arrange a Camp for the relief and response workers (identify an accommodation facility near the collectorate for relief and response workers to camp) refer <https://sdma.kerala.gov.in/wp-content/uploads/2021/08/IRS-handbook-malayalam-jjg.pdf> to know about Camp

On 27-12-2022, every District EOC and Taluk EOC shall be ready to connect through Video Conference for the Table Top Exercise that will be lead from State EOC (link will follow).

Allocation of observers and scenarios for districts

State EOC at Thiruvananthapuram

- Observer: NDMA, Assam SDMA

Thiruvananthapuram (Scenario: Floods)

- District EOC Observer: 1 NDRF (not below the rank of SI)
- Mock Site Observers: Indian Army - 1 each officer to 5 mock drill sites

- Field deployment of 1 column of Army to one of the mock drill sites with BAUTS for simulation of wate rescue.

DDMA to facilitate vehicles to transport BAUTs as in orange book 2022

- Helicopter Operation: 1 appropriate asset (Indian Airforce) - scenario for simulation - Roof top rescue
- DDMA to simulate clearing 10% of beds in General Hospital for receiving emergency patients from the mock sites.

Refer here for the hospital DM Plan of General Hospital <https://sdma.kerala.gov.in/hospital-safety/>

Kollam (Scenario: Floods)

- District EOC Observer: 1 NDRF (not below the rank of SI)
- Mock Site Observers: CRPF - 1 each officer to 5 mock drill sites
- Field deployment of one team of CRPF
- DDMA to simulate clearing 10% of beds in General Hospital for receiving emergency patients from the mock sites once the mock exercise begins. Refer here for the hospital DM Plan of General Hospital <https://sdma.kerala.gov.in/hospital-safety/>
- KSEB to simulate immediate restoration of power to the general hospital by deployment of Emergency Response Team

Pathanamthitta (Scenario: Floods - Release of water from reservoirs)

- District EOC Observer: 1 NDRF (not below the rank of SI)
- Mock Site Observers: CRPF - 1 each officer to 5 mock drill sites
- NDRF Deployment: Flood rescue (1 team)
- DDMA to simulate clearing 10% of beds in General Hospital for receiving emergency patients from the mock sites once the mock exercise begins. Refer here for the hospital DM Plan of General Hospital <https://sdma.kerala.gov.in/hospital-safety/>
- KSEB to simulate immediate restoration of power to the general hospital by deployment of Emergency Response Team

Alappuzha (Scenario: Floods)

- District EOC Observer: 1 NDRF (not below the rank of SI)
- Mock Site Observers: ITBP - 1 each officer to 5 mock drill sites
- Filed deployment of 1 team of ITBP
- DDMA to conduct a mock exercise in one block of General Hospital of cascading hazard electrical disruption due to floods. Refer the DM plan of the General Hospital here <https://sdma.kerala.gov.in/wp-content/uploads/2021/05/HDMP-Allepey.pdf>

- DDMA to identify additional hospital to receive and treat from sites of emergency and clear 10% of bed capacity in the said hospital to receive incoming emergency patients.
- KSEB to simulate immediate restoration of power to the general hospital by deployment of Emergency Response Team
- DDMA to be ready to present the DM Plan as a presentation. Template will follow.

Kottayam (Scenario: Landslides)

- District EOC Observer: 1 NDRF (not below the rank of SI)
- Mock Site Observers: CRPF - 1 each officer to 5 mock drill sites
- DDMA to simulate clearing 10% of beds in General Hospital for receiving emergency patients from the mock sites once the mock exercise begins. Refer here for the hospital DM Plan of General Hospital <https://sdma.kerala.gov.in/hospital-safety/>
- DDMA to simulate evacuation of a school in one of the sites which has a potential to be flooded due to river breaching banks. The school shall only have teachers and NCC/NSS/Scouts & Guides/SPC members for the simulation.

Idukki (Scenario: Landslides)

- District EOC Observer: 1 NDRF (not below the rank of SI)
- Mock Site Observers: Indian Army - 1 each officer to 5 mock drill sites
- Helicopter Operation: 1 appropriate asset (Indian Airforce) - scenario for simulation - Air drop of essential items
- DDMA to simulate clearing 10% of beds in General Hospital for receiving emergency patients from the mock sites once the mock exercise begins. Refer here for the hospital DM Plan of General Hospital <https://sdma.kerala.gov.in/hospital-safety/>

Ernakulam (Scenario: Floods and cascading hazard of Industrial Effluent leakage into Periyar)

- District EOC Observer: 1 NDRF (not below the rank of SI)
- Mock Site Observers: Indian Navy - 1 each officer to 5 mock drill sites
- Helicopter Operation: 1 appropriate asset (Indian Navy) - scenario for simulation - Air drop of essential items
- DDMA to identify one of the 5 sites to conduct a mock exercise of cascading hazard of Industrial Effluent leakage into Periyar involving Chemical Emergency Response Centre and appropriate Indian Navy assets
- DDMA to simulate clearing 10% of beds in General Hospital for receiving emergency patients from the mock sites once the mock exercise begins. Refer here for the hospital DM Plan of General Hospital <https://sdma.kerala.gov.in/hospital-safety/>

Thrissur (Scenario: Floods and Release of water from reservoirs)

- District EOC Observer: 1 NDRF (not below the rank of SI)
- Mock Site Observers: Coast Guard - 1 each officer to 5 mock drill sites
- NDRF Deployment: Flood rescue (1 team)
- DDMA to simulate clearing 10% of beds in General Hospital for receiving emergency patients from the mock sites once the mock exercise begins. Refer here for the hospital DM Plan of General Hospital <https://sdma.kerala.gov.in/hospital-safety/>
- KSEB to simulate immediate restoration of power to the general hospital by deployment of Emergency Response Team

Palakkad (Scenario: Landslides)

- District EOC Observer: 1 NDRF (not below the rank of SI)
- Mock Site Observers: BSF - 1 each officer to 5 mock drill sites
- DDMA to simulate clearing 10% of beds in General Hospital for receiving emergency patients from the mock sites once the mock exercise begins. Refer here for the hospital DM Plan of General Hospital <https://sdma.kerala.gov.in/hospital-safety/>

Malappuram (Scenario: Floods)

- District EOC Observer: 1 NDRF (not below the rank of SI)
- Mock Site Observers: Defence Service Corps - 1 each officer to 5 mock drill sites
- DDMA to simulate clearing 10% of beds in General Hospital for receiving emergency patients from the mock sites once the mock exercise begins. Refer here for the hospital DM Plan of General Hospital <https://sdma.kerala.gov.in/hospital-safety/>
- KSEB to simulate immediate restoration of power to the general hospital by deployment of Emergency Response Team
- DDMA to simulate evacuation of a school in one of the sites which has a potential to be flooded due to river breaching banks. The school shall only have teachers and NCC/NSS/Scouts & Guides/SPC members for the simulation.

Kozhikode (Scenario: Floods)

- District EOC Observer: 1 NDRF (not below the rank of SI)
- Mock Site Observers: BSF - 1 each officer to 5 mock drill sites

- DDMA to simulate clearing 10% of beds in General Hospital for receiving emergency patients from the mock sites once the mock exercise begins. Refer here for the hospital DM Plan of General Hospital <https://sdma.kerala.gov.in/hospital-safety/>
- DDMA to simulate evacuation of a school in one of the sites which has a potential to be flooded due to river breaching banks. The school shall only have teachers and NCC/NSS/Scouts & Guides/SPC members for the simulation.

Wayanad (Scenario: Landslides)

- District EOC Observer: 1 NDRF (not below the rank of SI)
- Mock Site Observers: Defence Service Corps - 1 each officer to 5 mock drill sites
- DDMA to conduct a mock exercise in one block of General Hospital of cascading hazard electrical disruption due to floods. Refer the DM plan of the General Hospital here <https://sdma.kerala.gov.in/wp-content/uploads/2021/05/HDMP-Waynad.pdf>
- DDMA to identify additional hospital to receive and treat from sites of emergency and clear 10% of bed capacity in the said hospital to receive incoming emergency patients.
- KSEB to simulate immediate restoration of power to the general hospital by deployment of Emergency Response Team

Kannur (Scenario: Floods)

- District EOC Observer: 1 NDRF (not below the rank of SI)
- Mock Site Observers: Defence Service Corps - 1 each officer to 5 mock drill sites
- DSC Deployment: Flood rescue (1 team with BAUT to simulate water rescue). DDMA to facilitate vehicles to transport BAUTs as in orange book 2022
- KSEB to simulate immediate restoration of power to the general hospital by deployment of Emergency Response Team

Kasargode (Scenario: Floods)

- District EOC Observer: 1 NDRF (not below the rank of SI)
- Mock Site Observers: Defence Service Corps - 1 each officer to 5 mock drill sites
- Field deployment of one team of BSF
- DDMA to simulate clearing 10% of beds in General Hospital for receiving emergency patients from the mock sites once the mock exercise begins. Refer here for the hospital DM Plan of General Hospital <https://sdma.kerala.gov.in/hospital-safety/>

- DDMA to simulate evacuation of a school in one of the sites which has a potential to be flooded due to river breaching banks. The school shall only have teachers and NCC/NSS/Scouts & Guides/SPC members for the simulation.

Contact at State EOC will be: Mr. Pradeep G.S, Hazard and Risk Analyst: 9895817557

The contact for central forces to coordinate with the respective districts will be the District Collector, the mobile number of whom is given in the link: https://sdma.kerala.gov.in/wp-content/uploads/2021/03/DM-Directory_Updated_12-03-2021.pdf

The alternate contact in the districts will be as follows:

Thiruvananthapuram: Chief Executive Officer, DDMA & Deputy Collector (DM) - 8547610015

Kollam: Chief Executive Officer, DDMA & Additional District Magistrate - 8547610026

Pathanamthitta: Chief Executive Officer, DDMA & Deputy Collector (DM) - 8547610039

Alappuzha: Chief Executive Officer, DDMA & Deputy Collector (DM) - 8547610047

Kottayam: Chief Executive Officer, DDMA & Additional District Magistrate - 8547610053

Idukki: Chief Executive Officer, DDMA & Additional District Magistrate - 8547610061

Ernakulam: Chief Executive Officer, DDMA & Deputy Collector (DM) - 8547610077

Thrissur: Chief Executive Officer, DDMA & Deputy Collector (DM) - 8547610089

Palakkad: Chief Executive Officer, DDMA & Additional District Magistrate - 8547610093

Malappuram: Chief Executive Officer, DDMA & Deputy Collector (DM) - 8547616007

Kozhikode: Chief Executive Officer, DDMA & Deputy Collector (DM) - 8547616018

Wayanad: Chief Executive Officer, DDMA & Additional District Magistrate - 8547616021

Kannur: Chief Executive Officer, DDMA & Deputy Collector (DM) - 8547616034

Kasargode: Chief Executive Officer, DDMA & Additional District Magistrate - 9447726900

All DDMAAs should have separate space and marking for

- 1) Incident Command Post - for the District IRT (RO, IC, DIC, Information Officer, Liaison Officer + LSG DM Plan Coordinator & KYLA Intern supported by the Natural Calamity Section of Collectorate as General Staff) (Orange Book 2022 Page 85, 86)
- 2) Operations Section Desk - Response Branch (as many number of seats as the number of Taluks) - To be manned by Police to be lead by the Operations Sections Chief (Orange Book 2022 Page 85, 86)
- 3) Transportation Branch Desk - 1 seat each of Railway, Road, Air and Water transport (as available for the district and anticipating resource mobilization through nearest air port, sea port or railway station) - to be manned by Transport Department to be lead by Logistics Section Chief (Orange Book 2022 Page 85, 86)

4) Planning Section - to be lead by Fire & Rescue Services - the Planning Section Chief (Orange Book 2022 Page 85, 86)

- Resource Unit (2 seats) - 2 from Fire and Rescue

- Situation Unit (4 seats) – District Geologist, Irrigation Executive Engineer, KSEB Engineer, District Soil Conservation Officer

- Documentation unit (2 seats) - I & PRD (Media Officer - Orange Book 2022 Page 85, 86) IO and assistant IO

- Demobilization Unit (3 seats) - 1 Land Revenue + 1 Police + 1 Fire and Rescue

5) Logistics Section

- Communications Unit (2 seats) - 1 Police Telecommunications + 1 BSNL + UHF/VHF of Central Forces if any

- Medical Unit (2 seats) - Medical Officer (Safety Officer - Orange Book 2022 Page 85, 86) + 1 Para Medical Officer

- Food Unit (2 seats) - Civil Supplies (1 staff) + Food Safety (1 staff)

6) Support Branch

- Resource Provisioning Unit (2 seats) - 1 Land Revenue + 1 Rural Development (ADC office)

- Facilities Unit (2 seats) - Land Revenue - 1 Land Revenue + 1 Rural Development (ADC office)

- Ground Support Unit (2 seats) - 1 Land Revenue + 1 Rural Development (ADC office)

7) Finance Branch - Lead by Finance Officer, District Collectorate

- Time Unit (2 seats) - 1 Land Revenue + 1 Rural Development (ADC office)

- Compensation/claim unit (2 seats) - 1 Land Revenue + 1 Rural Development (ADC office)
- Procurement Unit (2 seats) - 1 Land Revenue + 1 Civil Supplies
- Cost Unit (2 seats) - 2 from Finance Section of District Collectorate

All TEOCs should have separate space and marking for

- 1) Incident Command Post - for the Taluk IRT (RO, IC, DIC, Information Officer, Liaison Officer + LSG DM Plan Coordinator & KYLA Intern supported by the Natural Calamity Section of Collectorate as General Staff) (Orange Book 2022 Page 85, 86)
 - 2) Operations Section Desk - Response Branch (as many number of seats as the number of Taluks) - To be manned by Police to be lead by the Operations Sections Chief (Orange Book 2022 Page 85, 86)
 - 3) Transportation Branch Desk - 1 seat each of Railway, Road, Air and Water transport (as available for the district and anticipating resource mobilisation through nearest air port, sea port or railway station) - to be manned by Transport Department to be lead by Logistics Section Chief (Orange Book 2022 Page 85, 86)
 - 4) Planning Section - to be lead by Fire & Rescue Services - the Planning Section Chief (Orange Book 2022 Page 85, 86)
- Resource Unit (2 seats) - 2 from Fire and Rescue

- Situation Unit (4 seats) – District Geologist, Irrigation Executive Engineer, KSEB Engineer, District Soil Conservation Officer
- Documentation unit (2 seats) - I & PRD (Media Officer - Orange Book 2022 Page 85, 86) IO and assistant IO
- Demobilization Unit (3 seats) - 1 Land Revenue + 1 Police + 1 Fire and Rescue

5) Logistics Section

- Communications Unit (2 seats) - 1 Police Telecommunications + 1 BSNL
- Medical Unit (2 seats) - Medical Officer (Safety Officer - Orange Book 2022 Page 85, 86) + 1 Para Medical Officer
- Food Unit (2 seats) - Civil Supplies (1 staff) + Food Safety (1 staff)

6) Support Branch

- Resource Provisioning Unit (2 seats) - 1 Land Revenue + 1 Rural Development (ADC office)
- Facilities Unit (2 seats) - Land Revenue - 1 Land Revenue + 1 Rural Development (ADC office)
- Ground Support Unit (2 seats) - 1 Land Revenue + 1 Rural Development (ADC office)

7) Finance Branch - Lead by Finance Officer, District Collectorate

- Time Unit (2 seats) - 1 Land Revenue + 1 Rural Development (ADC office)
- Compensation/claim unit (2 seats) - 1 Land Revenue + 1 Rural Development (ADC office)
- Procurement Unit (2 seats) - 1 Land Revenue + 1 Civil Supplies
- Cost Unit (2 seats) - 2 from Finance Section of District Collectorate

All departments addressed above may send their state level officers to KSDMA for attending the TTEx on 27-12-2022. There will be questions in the TTEx to various departments and districts from IRS (Refer: <https://sdma.kerala.gov.in/wp-content/uploads/2021/08/IRS-handbook-malayalam-jjg.pdf>) and Orange Book 2022 (Refer: <http://sdma.kerala.gov.in/wp-content/uploads/2022/06/Orange-Book-of-Disaster-Management-2-2022.pdf>).