

Tsunami Mock Drill Report

7th & 8th September 2016

Kerala





Rescue Techniques being demonstrated by the forces at Kasaragod District

Contributors to the Report

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IOWave 16

TSUNAMI MOCK DRILL REPORT

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Kerala

Organized by:

State Disaster Management Authority
Department of Revenue & Disaster Management
Government of Kerala



'Towards a Safer State'

Introduction

The UNESCO's Intergovernmental Oceanographic Commission (IOC) formed the International Coordination Group for the Tsunami Warning System in the Indian Ocean (ICG/IOTWMS) on July 2005, as a coordinated international response to the 2004 Tsunami event. The ICG/IOTWMS is serving as the regional body to plan and coordinate the design and implementation of an effective and durable tsunami warning and mitigation system. The system will be fully owned by the 28 member states of the Indian Ocean Tsunami Warning System (IOTWMS), and is based on international and multilateral cooperation with governance provided by IOC.

Following the 2004 Tsunami event, UNESCO's Intergovernmental Oceanographic Commission (IOC) was requested to establish an Intergovernmental Coordination Group for the Indian Ocean Tsunami Warning and Mitigation System (ICG/IOTWMS), to provide warnings for such events, and to coordinate mitigation efforts among its Member States. An efficient and effective end-to-end warning system was needed, ready to react 24 hours a day to any potential tsunami threat, alert those at risk along coasts, and motivate them take immediate and appropriate steps to save their lives. Under the guidance of the ICG/IOTWMS, Member States collaborated in the development of the IOTWMS, which was initially tested in the Indian Ocean-wide tsunami warning and response exercise IOWave09 (October 2009), and which then came into operation immediately following the subsequent IOWave11 (October 2011) exercise and was exercised again in IOWave14 (September 2014). Since 2011, the three Tsunami Service Providers (TSPs) of Australia, India and Indonesia have provided real-time tsunami products to the National Tsunami Warning Centres (NTWCs) of the IOTWMS Member States. The 10th Session of the ICG/IOTWMS in Muscat, Oman established a Task Team to organise the next Indian Ocean-wide tsunami exercise (IOWave16) in September 2016.

Indian Ocean-wide tsunami drills are effective tools for evaluating the readiness of the IOTWMS and for identifying changes that can improve its effectiveness. The ICG/IOTWMS notes the value of basin-wide tsunami exercises and drills such as IOWave16 also encourages Member States to conduct further exercises and drills at the national and local levels.

Indian Tsunami Early Warning System (ITEWS)

The Indian Tsunami Early Warning System (ITEWS) is unified system made up of hazard identification and risk assessment, detection and dissemination, capacity building through community awareness and preparedness. The system is operational since October 2007 and providing its services to both national and international stake holders. As part of detection and dissemination, the Indian Tsunami Early Warning Centre (ITEWC) acts as operations centre that operates on a 24 × 7 basis. The ITEWC monitors seismic stations for detection of tsunamigenic earthquakes and issues advisories based on pre-computed simulations. Subsequently, the tsunami buoys and tide gauge stations are monitored for the confirmation of tsunami generation. Based on severity of tsunami evaluations, advisories are disseminated to national emergency points of contact for necessary action. Advisories are updated at least

hourly or as conditions warrant to continue till all clear is issued. ITEWC provides services to national stake holders in its capacity as a National Tsunami Warning Centre and also to the international stakeholders as one of the Tsunami Service Providers (TSP) for the Indian Ocean region.

Objectives of the Drill

- a) To understand the preparedness level of Disaster Management Institutions in the State.
- b) Evaluate the process of dissemination of bulletins/messages by the State Emergency Operations Centre to DDMAs.
- c) Hone the organizational decision making process about public warnings and evacuation.
- d) Identify proper communication methods that would be used to notify and instruct the public.

Process Followed

- 1) Meeting at INCOIS on SOP workshop of Tsunami IOWave 2016.
- 2) Tsunami Drill Preparedness Workshop at Secretariat, Chaired by Hon'ble Minister for Revenue & DM
- 3) Community level awareness meeting on 7th September, 2016
- 4) Mock drill exercise in four coastal districts of the State on 8th September, 2016
- 5) Debriefing & Evaluation

1) Training on Tsunami Standard Operating Procedure (SOP) workshop on August 02nd, 2016 at INCOIS, Hyderabad

Indian National Centre for Ocean Information Services (INCOIS) organized one day training on Tsunami Standard Operating Procedures on 2nd August 2016 at INCOIS office, Hyderabad. Five officers from the State attended the workshop.



2) Tsunami Drill Preparedness Workshop at Secretariat.

Tsunami Mock Drill planning meeting was held on 31st August 2016 at Secretariat which was chaired by Hon'ble Minister for Revenue & Disaster Management inter alia Vice Chairperson of State Disaster Management Authority. Principal Secretary of Revenue & Disaster Management was also present in the workshop. The objective of the workshop was to work out the details of the drill with the stakeholders.

Dr Sekhar L Kuriakose, Member Secretary of KSDMA presented on the simulation and the expected functions from each department. He explained the SOP to be followed during the drill and the scenario planned. The communication flow chart was also explained at length. While explaining the functions, he explained the functions of SEOC, HoDs of Land Revenue, Police, Coastal Police, SDRF, Fire & Rescue, Health Services, DM Control Room, DDMA, DEOC, Revenue, I&PRD, Army, Navy and Air Force, Coast Guard, NDRF, ITBP etc. Except Navy, all the other stakeholders participated in the workshop.



Initially, the drill was planned for three districts viz. Thiruvananthapuram, Alappuzha and Kasaragode; it was scaled up to include Kozhikode district upon the request of the DDMA. The officials presented in the meeting are as follows: -

3) Community Awareness Programmes

Community Awareness is crucial in any mock drill. In each district DDMA's organized community awareness programmes on the previous day of the drill i.e. 7th September 2016. Sessions were facilitated by NDRF, SDRF, Police, Fire & Rescue services etc. The sessions were on the basic understanding of hazards, preparedness, mitigation etc. The trainers also demonstrated various



first aid techniques in times of emergencies like CPR. The awareness programmes were held in all the four participating districts.

4) **Mock Drill Exercise**

The scenario for the mock drill exercise is as follows:-

SCENARIO 2 – Makran Trench	
Date	Thursday, 8 th October 2016
Time	1130 IST
Magnitude	9.0 M
Depth	10 KM
Latitude	24.8 N
Longitude	62.2 E
Location	Off coast of Pakistan

The following beaches were selected in four districts for mock drill exercises.

Sl. No:	Beach	Village	District
01	Cherangai	Kasaragod	Kasaragod
02	Puthiyangadi	Puthiyangadi	Kozhikode
03	Thomboli Kadappuram	Aryad South	Alappuzha
04	Shangumugham	Pettah	Thiruvananthapuram

Level of Participation

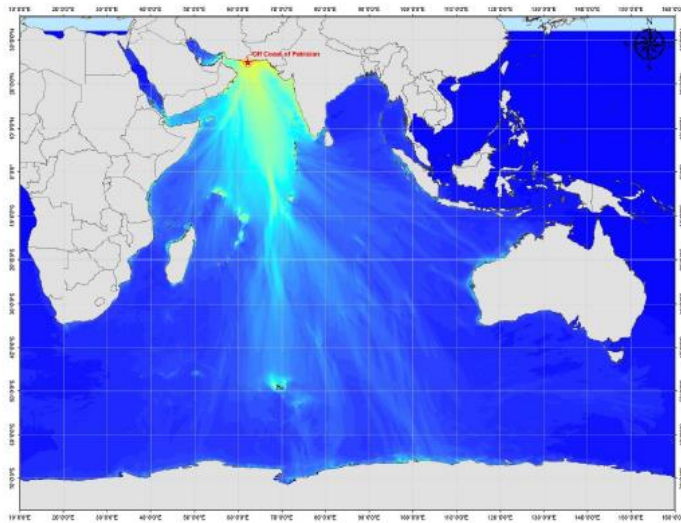
The State decided to have community level participation by involving one village each in each district.

Timeline of Scenario

Given below

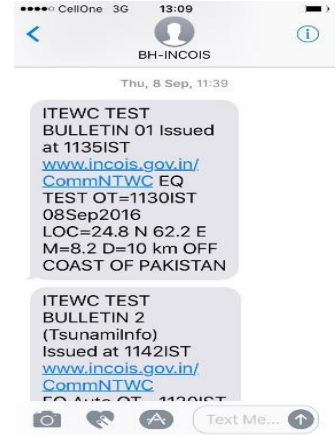
Date	Time (IST)	Provider	Bulletin #	Detail
09-Sep-16	1130			Test Start Earthquake occurs
09-Sep-16	1135	ITEWC	1	Type-I EQ Bulletin (8.2 M)
09-Sep-16	1140	ITEWC	2	Type-II EQ + Scenario Results (8.5 M)
09-Sep-16	1215	ITEWC	3	Type-III EQ + Scenario Results (9.0 M) + WL Obs
09-Sep-16	1230	ITEWC	4	Type-III Supplementary 01
09-Sep-16	1330	ITEWC	5	Type-III Supplementary 02
09-Sep-16	1430	ITEWC	6	Type-III Supplementary 03
09-Sep-16	1530	ITEWC	7	Type-III Supplementary 04
09-Sep-16	1630	ITEWC	8	Type-III Supplementary 05
09-Sep-16	1730	ITEWC	9	Type-III Supplementary 06
09-Sep-16	1830	ITEWC	10	Type-III Supplementary 07
09-Sep-16	1930	ITEWC	11	Type-III Supplementary 08
09-Sep-16	2030	ITEWC	12	Type-III Supplementary 09
09-Sep-16	2130	ITEWC	13	Type-III Supplementary 10
09-Sep-16	2230	ITEWC	14	Type-III Supplementary 11
09-Sep-16	2330	ITEWC	15	Type-IV Final Bulletin

Directivity Map for Bulletins 3 to 14 - Earthquake magnitude 9.0



Report of the Independent observer at SDMA Control Room

1. Emergency Support Function Communication (e.g. Search & Rescue ,Medical) -
2. Responsible Officer (Name) (DM) - Anjana M, AC
3. Observer (Name) - K.Sasikumar
4. Immediate Assessment of the Organization Set up is very good - Control Room
5. Response of the Team to Disaster - Positive
6. Resources Available and their optimum utilization.



- 1) Land Line Telephone - 03 lines (One dedicated for fax)
- 2) Fax machine - 01 (Working)
- 3) Computer - 02 (One Not Working)
- 4) Laptop - 01 (Working)
- 5) Fax cum printer - 01 (Working)

7. Your assessment of the Organization in completion of task

- (a) 75-100 % Success (b) 50-74 % Success
 (c) 30-50 % Success (d) Less than 30% success

8. Observers Comments (Frank Opinion, Good Practices and weakness/ shortcomings noticed)

- (a) Excellent (b) Very Good (c) Good (d) Average (e) Poor

9. Control room having good ambience, Response of the staff - Very Positive

- Good practices**
- 1) Overall supervision by Head of the department
 - 2) Monitoring the activities of control room by Responsible officer is excellent
 - 3) Harmony among the staff team
 - 4) Information passing to district

- Weakness**
- 1) Using of communication equipment of staff except computer operation
 - 2) Lack of training
 - 3) VHF Equipment –un utilised during the operation
 - 4) Overall spacing of control room
 - 5) No response from District Authority

During the mock exercise, the State used IDRN (India Disaster Resource Network) portal to assess the resources available at the districts and shared the same with the districts. IDRN portal contains three broad categories of inventory

- (1) Equipments.
- (2) Human Resources.
- (3) Critical Supplies.

www.idrn.gov.in

Short Coming -

- 1) No alternate Fax, Computer and Printer available
- 2) Lag in communicating the availability of resources from the field level to control room

Suggestions:-

- 1) Proper training should give to all control room staff and DM section staff on all aspects including handling of computer, email and other equipment .
- 2) At a time more than one staff posted to control room shall have the institutional memory
- 3) Staff positioning in the control room should be changed periodically.
- 4) Control room should be equipped fully adhering to handbook on emergency operations.
- 5) Hot line communication between district and state and Taluk control room.
- 6) EPABX communication between district and state and Taluk control room.
- 7) Ensure at least one copy of the DDMP and SDMP in the control room.

Feedback given by

K.SAHIKUMAR

Senior Superintendent
Land Revenue Commissionarate
Thiruvananthapuram

District Reports

1) Kasaragod District by Ms Sruthi Ravindran

1. Scenario based Tsunami Mock Exercise

DDMA meeting convened on 3rd September 2016 to discuss about the mock drill and selected Adkathubail village which is constantly hit by several coastal hazards. The selected village was approved by KSDMA, Department of Disaster Management.

As per the direction from Head, SEOC and Member Secretary KSDMA, I joined for duty on 6th September 2016 in Kasaragod Collectorate to support the DDMA for conducting the same. After reporting the District Collector, Kasaragod and Additional District Magisgtrate, got engaged in preparedness activities.

1.1. Preparedness actions on 6th September 2016

- Reminded all the heads of the concerned Departments about the Community Awareness Programme to be held on 7th September 2016 at Cherangai Kadappuram

- Posters and notices were placed on all public places especially junctions, temples and mosques
- Repeated advertisement in newspaper till 7th September 2016
- Kept all the updated emergency contact numbers, India Disaster Resource Network (IDRN) resource inventories and District Disaster Management Plan (DDMP) ready for reference
- Convened review meeting of revenue officials (tahsildar and village officer of respective taluk and village) and other officials in the Collectorate in the presence of ADM, the Chief Executive Officer (CEO) of DDMA
- Directed the authorities of temples and mosques in the respective village to announce about the exercise in the morning hours on 8th Sept, so that the villagers would be aware of the same

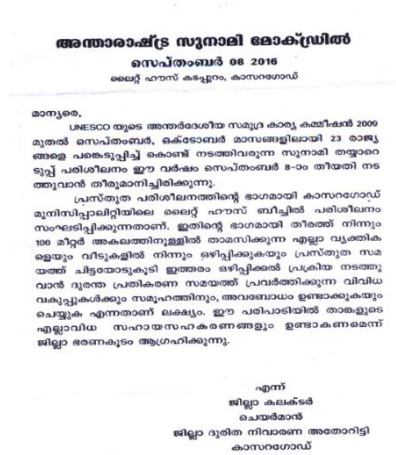
1.2 Community Awareness Programme on 7th September 2016

- A table top review meeting held on 7th September 2016 in the presence of Mr. Jeevan Babu IAS, Chairman of DDMA at 03.30 pm in a Madrasa school ((Lat 12⁰30'53", Long 74⁰58'9") where the public was also informed to assemble. Chairman of DDMA opened the meeting and gave awareness about the scenario to the public as well. Chairman and CEO requested a complete co-orporation through active participation to the public and to all the concerned departments
- Selected shelter camp was a Madrasa school (Lat 12⁰30'53", Long 74⁰58'9") which is more than 100metres away from the beach. Besides, one Govt. UP school, Kadappuram, Kasaba kept in reserve
- Print outs of expected functions and roles of departments extracted from the presentation Tsunami Mock Drill (7th and 8th September 2016) distributed to the concerned departments
- Representatives of various line departments namely Fire and Rescue Services, Regional Rapid Response Force (RRRF), Health, Fisheries, National Disaster Response Force (NDRF), Local and Coastal Police and Tahsildar, Village officers and other officials actively participated in the meeting
- Representatives of forces namely Fire, Coastal Police, NDRF interacted with the public and spoke about the significance of conducting the exercise in the selected area and they trained the public about the best practices to be followed in evacuation
- Indoor and Outdoor training classes on basic life support that covered various lifting methods, CPR (Cardio Pulmonary Resuscitation) was taken by NDRF force
- Villagers, members of youth club, children and representatives of local self government actively participated in the demonstration class



- Representative from information office captured the meeting and the training classes as well

Figure1: Advertisement of the event via notice



PART 2

TSUNAMI MOCK EXERCISE ON 8TH SEPTEMBER 2016

2.1 Event- Mock drill

- On receiving the alert message from State Emergency Operations Centre (SEOC), District Incident Commander (DIC) (District Collector) directed all the DDMA members to reach District Emergency Operations Centre (DEOC) and convened a Crisis Management Committee within 10 minutes. ADM (CEO of the DDMA), Head of the departments of Police, Fire and Rescue, Fisheries and Health immediately reached DEOC and evaluated the threatening situation
- All the heads of the department directed their team to reach the site immediately
- CI Coastal Police - On-site Incident Commander, ADM – Independent Observer in DEOC

Addl. Tahsildar, Hosdurg- Nodal Officer was assigned to inform the on-site activities to DEOC, Deputy Collector, Endosulfan- Onsite Independent Observer

- Information Officer was directed to reach the site and asked him to collect detail from onsite incident commander and designated as the only spoke person for information dissemination to media
- DIC directed to reserve 25% beds of hospitals in the respective taluk where Tsunami was expected to hit
- Further, tsunami prone map and list of villages that would be affected sent by SEOC was checked by DEOC
- Police control room and taluk control room opened immediately, local police regulated traffic to reach the vehicles of various line departments and forces without any hindrance
- Announcement was done along the coastal area by the police and power supply to the prone area disconnected 1.00 pm
- Fishermen who went to the sea were requested to stay in the deep sea until any message from the authorities
- One representative from NDRF reached DEOC to co-ordinate NDRF activities
- Evacuation started as per direction from SEOC and by 01.27 pm evacuation completed. Co-ordination of all the forces including NDRF was reported to DEOC
- Nodal Officer in charge reported the activities to DEOC every 30 minutes. Collected information was disseminated to SEOC every 1 hour
- Final search was completed by 1.40 pm. 88 houses and one Anganwadi evacuated from the spot to two shelters namely Madrasa school (Lat 12⁰30'53", Long 74⁰58'9") and Govt. UP school, Kadappuram, Kasaba. A total of 915 members evacuated from the area
- Food and water provision was arranged in the shelter camps under the supervision of Tahsildar
- Conducted Police Patrolling in the evacuated area to avoid the risk of theft and other malpractices
- Medical team was also actively participated. One minor Injury was reported in between was given first aid by the medical team and then moved to taluk hospital
- Almost by 2.45 pm the coastal area (100 metres away from the coast) became completely sterile
- Evacuated public was allowed to move back to their home after 45 minutes on receiving the hit confirmation message from SEOC

2.2 Debriefing

All the heads of the department reassembled before DC for a debriefing of the event at 04.45 pm at District Collector's Chamber

- Active participation of the public and representatives of local self government (3 councillors and 3 panchayat members), youth club members, social workers and Kudumbashree members made the event a success
- Community Awareness Programme held on the previous day (7th Sept.) played a key role for the proper conduct of the mock exercise
- Coastal police reached the site within 4 minutes and other teams of various departments also arrived within 15-20 minutes

2.3 Gaps identified

- No parallel roads to reach the site and hence traffic regulation became a tough task
- Failed to mobilize the rescue guards well trained by Fire and Rescue department (Only one among the guards reached the site)
- Early warning system is not functioning properly

DEOC operated in the emergency time functions mode till threat passed message received from SEOC

2) District Report – Alappuzha | Prepared by Ms Chinthumol C

Activities taken for Tsunami Mockdrill

- 31st August 2016 – State Government conducted a meeting in the chamber of Hon'ble Minister Revenue in 2nd floor, North block, Govt Secretariat regarding Tsunami Mockdrill
- Deputy Collector (DM) , Junior Superintendent, Section Clerk , and Local community mobiliser attended the meeting
- 1st September 2016- urgent DDMA meeting convened in Collectorate Conference hall in the presence of District collector Veena N Madhavan IAS at 12.30pm
- In this meeting village selected for conducting Tsunami Mockdrill was Aryad South village in Ambalappuzha Taluk
- 3rd September 2016 - Informed to SEOC regarding the identified village
- 4th September -Advertised through Posters and Notices
- 4th to 7th September – advertised through newspapers and medias

ആര്യാട് തെക്ക് വില്ലേജിൽ സുനാമി മോക് ഡ്രിൽ എട്ടിന്

ആലപ്പുഴ • ജില്ലയിലെ ദുരന്തനിവാരണ സംവിധാനങ്ങളുടെ കാര്യക്ഷമത ഉറപ്പാക്കാനും സുനാമി ദുരന്ത മുന്നൊരുക്കങ്ങൾ വിലയിരുത്തുന്നതിനും എട്ടിന് ആര്യാട് തെക്ക് വില്ലേജിൽ സുനാമി മോക് ഡ്രിൽ നടത്തും.

ഭൂകമ്പത്തെത്തുടർന്നു സുനാമി മുന്നറിയിപ്പു വരുന്നതു മുതൽ രക്ഷാപ്രവർത്തനം നടത്തുന്നതുവരെയുള്ള ഘട്ടങ്ങളിൽ ജില്ലാ ദുരന്തനിവാരണ അതോറിറ്റിയും മറ്റു വകുപ്പുകളും സീക്രിറേഷൻ യുദ്ധകാലാടിസ്ഥാനത്തിലുള്ള നടപടികളാണു മോക് ഡ്രില്ലിൽ തൽസമയം ആവിഷ്കരിക്കപ്പെടുക.

യുനെസ്കോ ഇന്റർ ഗവർമെന്റ് (ഐഒസി) നിർദ്ദേശപ്രകാരം സംസ്ഥാന ദുരന്ത നിവാരണ

അതോറിറ്റിയുടെയും ജില്ലാ ഭരണകൂടത്തിന്റെയും നേതൃത്വത്തിലാണു മോക് ഡ്രിൽ സംഘടിപ്പിക്കുക. രാവിലെ 11.30 മുതൽ രാത്രി 11.30 വരെയാണു മോക് ഡ്രിൽ നടക്കുക.

ആലപ്പുഴ നഗരസഭയിലെ സീവ്യൂ വാർഡിലെ യുണൈറ്റഡ് ക്ലബ്ബ് മുതൽ തുമ്പോളി പള്ളി വരെ യുള്ള നാലര കിലോമീറ്റർ പ്രദേശത്തു കടൽത്തീരത്തു നിന്നു നൂറു മീറ്റർ പരിധിയിൽ താമസിക്കുന്ന കുടുംബങ്ങളെ മോക് ഡ്രില്ലിന്റെ ഭാഗമായി ഒഴിപ്പിക്കും. റിസോർട്ടുകളിലേക്കും താമസിക്കുന്നവരെ ഒഴിപ്പിക്കും. ആളുകളെ ഒഴിപ്പിക്കുമ്പോൾ വീടുകളുടെ സുരക്ഷയ്ക്കായി പ്രത്യേക സംവിധാനമൊരുക്കാൻ പൊലീസിനു നിർദ്ദേശം നൽകിയിട്ടുണ്ട്.

തിരുവനന്തപുരത്തു സ്റ്റേറ്റ് എമർജൻസി ഓപ്പറേഷൻ സെന്ററിൽ നിന്നു സാങ്കേതിക സുനാമി അറിയിപ്പ് ലഭിച്ചാലുടൻ ജില്ലാ എമർജൻസി ഓപ്പറേഷൻ സെന്റർ പ്രവർത്തന സജ്ജമാകും. അപായ സന്ദേശം ലഭിച്ചാലുടൻ ജില്ലാ ദുരന്തനിവാരണ അതോറിറ്റി അംഗങ്ങളെല്ലാം ജില്ലാ എമർജൻസി ഓപ്പറേഷൻ സെന്ററിൽ എത്തിച്ചേരും.

തുടർന്നു ജില്ലാ കലക്ടറുടെ നേതൃത്വത്തിൽ പ്രശ്ന പരിഹാരസമിതി അടിയന്തര യോഗം ചേർന്ന് എല്ലാ വകുപ്പുകൾക്കും അറിയിപ്പ് നൽകും. പൊലീസ്, ഇൻഡോ-ടിബറ്റൻ ബോർഡർ പൊലീസ്, അഗ്നിശമനവിഭാഗം, മെഡിക്കൽ സംഘം, റവന്യൂ വിഭാഗം, ഉദ്യോഗസ്ഥർ, കോസ്റ്റൽ

പൊലീസ്, ദേശീയ ദുരന്തനിവാരണ സേന, കോസ്റ്റ് ഗാർഡ്, നാവിക-വ്യോമ-കരസേന, കെഎസ്ആർടിസി തുടങ്ങി എല്ലാ സർക്കാർ സംവിധാനങ്ങളും ദുരന്തസ്മലത്ത് എത്തും. തൊട്ടടുത്തുള്ള ആശുപത്രിയിൽ ദുരന്തബാധിതർക്കു ചികിത്സയ്ക്കാവശ്യമായ എല്ലാ നടപടികളും സീക്രിറേഷൻ നൽകും.

മോക് ഡ്രില്ലിന്റെ ഒരുക്കങ്ങൾ വിലയിരുത്താൻ ചേർന്ന യോഗത്തിൽ ജില്ലാ കലക്ടർ വീണ എൻ. മാധവൻ ആധ്യക്ഷ്യം വഹിച്ചു. യോഗത്തിൽ എഡിഎം എം. കെ. കബീർ, ദുരന്തനിവാരണ വിഭാഗം ഡപ്യൂട്ടി കലക്ടർ എസ്. കൃഷ്ണകുമാർ, ജനപ്രതിനിധികൾ, വിവിധ വകുപ്പുമേലധികാരികൾ എന്നിവർ പങ്കെടുത്തു.

► പ്രതീക്ഷ തിരമാലയായി മോക് ഡ്രിൽ

സുനാമിയോ? ഭീതി വേണ്ട; അധികൃതർ തയ്യാർ

തിരുവനന്തപുരം > സുനാമിത്തിരമാലകൾ ആഞ്ഞടിച്ചാൽ സുരക്ഷ ഉറപ്പാക്കാനായി ജില്ലാ ഭരണസിരട്രെക്കേന്ദ്രം നടത്തിയ മോക് ഡ്രിൽ പ്രതിഭാസങ്ങളുടെ തീരമാലയായി പരിഭ്രാന്തരാകാതെ രക്ഷാകവചമൊരുക്കാൻ ഭരണകൂടത്തിന്റെ ഔഗന്ത്യനിന്നുണ്ടായ ശ്രമങ്ങളെ പ്രദേശവാസികളും അകമഴിഞ്ഞ് പിന്തുണച്ചതോടെ 'ആപത്തില്ലാ തീരമേഖല'യെന്ന സന്ദേശവും ജനങ്ങൾക്കിടയിലേക്കെത്തിക്കാൻ ജില്ലാ ഭരണാധികാരികൾക്ക് സാധിച്ചു. പാകിസ്ഥാൻ തീരത്തോടു ത്ത് കടലിൽ 10 കി.മീ ആഴത്തിൽ ഭൂകമ്പമാപിനിയിൽ ഒമ്പത് മൊമന്റ് മാനിസ്റ്റ്യൂഡ് തീവ്രതയുള്ള വൻ ഭൂകമ്പം ഉണ്ടായാൽ കേരളത്തെ എങ്ങനെ ബാധിക്കുമെന്നതും സംസ്ഥാന

നത്തെ സുനാമി മുന്നറിയിപ്പു സംവിധാനങ്ങളും മറ്റ് വകുപ്പുകൾ ഈ സാഹചര്യത്തെ എങ്ങനെ നേരിടുമെന്നതും പരിശോധിക്കുന്നതിനായാണ് മോക് ഡ്രിൽ നടത്തിയത്. സുനാമി മോക് ഡ്രിൽ നടത്തുമെന്ന സന്ദേശം മുൻകൂർ നൽകിയത് മുന്നൊരുക്കങ്ങൾക്കും മുൻകരുതലിനും സഹായമായിരുന്നു. കലക്ടർ എസ് വെങ്കിടേസപതിയുടെ നേതൃത്വത്തിൽ ദിവസങ്ങൾക്കുമുമ്പേ തുടങ്ങിയ മുന്നൊരുക്കങ്ങളും നിർദ്ദേശങ്ങളും വകുപ്പുകളുടെ ഏകോപിച്ചുള്ള പ്രവർത്തനങ്ങൾക്ക് മുതൽക്കൂട്ടായി.

സംസ്ഥാന ദുരന്തനിവാരണ അതോറിറ്റിയാണ് ശംഖുഭൂമിയിൽ നടത്തിയ മോക് ഡ്രില്ലിന് ചുക്കാൻ പിടിച്ചത്. ഇന്ത്യൻ നാഷണൽ സെന്റർ ഫോർ ഓഷ്യൻ ഇൻഫർമേഷൻ സർവീസിൽനിന്ന് രാവിലെ സന്ദേശമെത്തിയതോടെ മോക് ഡ്രിൽ ആരംഭിച്ചു. പകൽ 11.30ന് ഭൂകമ്പമുണ്ടായി എന്നും 4.00ന് ശംഖുഭൂമി തീരത്ത് അടിക്കുകമെന്നുമായിരുന്നു സന്ദേശം. ഉടൻ കലക്ടററിൽ അടിയന്തര യോഗം ചേരുകയും ഡിസാസ്റ്റർ മാനേജ്മെന്റ് ഡെപ്യൂട്ടി കലക്ടർ രാജൻ സഹായിയുടെ നേതൃത്വത്തിൽ കൺട്രോൾ റൂം തുറക്കുകയും ചെയ്തു. കലക്ടറുടെ നിർദ്ദേശാനുസരണം ആർഡിഒ സബിൻ സമീതിന്റെ നേതൃത്വത്തിൽ തപാസിൽ റാർ കെ ആർ മണികണ്ഠനും റവന്യൂ സംഘവും ശംഖുഭൂമിത്തെത്തി. വായുസേന, തീരസം

രക്ഷണസേന, തീരദേശ പൊലീസ്, ഫയർഫോഴ്സ്, എൻഡി ആർഎഫ്, പൊലീസ്, മെഡിക്കൽ സംഘം ഉൾപ്പെടെയുള്ള സന്നാഹങ്ങളുടെ ഏകോപനത്തോടെ രക്ഷാപ്രവർത്തനങ്ങൾ ആരംഭിച്ചു. പുന്തണ്ടിന് എല്ലാ വകുപ്പുകളുടെയും സഹകരണത്തോടെ സുനാമി സാധ്യതാ മേഖലയിൽനിന്ന് ജനങ്ങളെ ഒഴിപ്പിക്കാൻ തുടങ്ങി. രണ്ടിന് രണ്ടായിരത്തിലധികംപേരെ സ്ഥലത്തുനിന്ന് ഒഴിപ്പിച്ചു. 162 പേരെ പ്രത്യേകമായി തയ്യാറാക്കിയ ക്യാമ്പിലെത്തിച്ച് ഭക്ഷണവും കുടിവെള്ളവും നൽകാൻ ജില്ലാ ഭരണകൂടത്തിനായി. എയർഫോഴ്സ് വിമാനം വഴി തീരദേശത്ത് ഭക്ഷണവിതരണവും ഉണ്ടായി.

അന്താരാഷ്ട്ര സുനാമി മോക്ഡ്രിൽ സെപ്റ്റംബർ 8, 2016 ആര്യാട് തെക്ക് വില്ലേജ്

UNESCO യുടെ അന്തർദ്ദേശീയ സമുദ്ര കാര്യ കമ്മീഷൻ 2009 മുതൽ സെപ്റ്റംബർ, ഒക്ടോബർ മാസങ്ങളിലായി 23 രാജ്യങ്ങളെ പങ്കെടുപ്പിച്ചു കൊണ്ട് നടത്തി വരുന്ന സുനാമി തയ്യാറെടുപ്പ് പരിശീലനം ഈ വർഷം സെപ്റ്റംബർ 7, 8 തീയതികളിലായി നടത്തുവാൻ തീരുമാനിച്ചിരിക്കുന്നു.

പ്രസ്തുത പരിശീലനത്തിൽ കേരളവും പങ്കെടുക്കുവാൻ തീരുമാനിച്ചിട്ടുണ്ട്. വിവിധ വകുപ്പുകളെ ഏകോക്തീകരിച്ച് കൊണ്ട് ഈ പരിപാടി നടത്തുന്നത് സംസ്ഥാന ദുരന്ത നിവാരണ അതോറിറ്റിയുടെ ആഭിമുഖ്യത്തിൽ ആണ്. കാസർകോഡ്, ആലപ്പുഴ, തിരുവനന്തപുരം എന്നീ ജില്ലകളിലെ ഓരോ തീരദേശ ഗ്രാമങ്ങൾ തിരഞ്ഞെടുത്ത് പ്രസ്തുത ഗ്രാമങ്ങളിൽ മുന്നറിയിപ്പ് ലഭിക്കുന്നത് മുതൽ സുനാമി മുന്നറിയിപ്പ് പിൻവലിക്കുന്നത് വരെയുള്ള പ്രവർത്തനങ്ങൾ ജനപങ്കാളിത്തത്തോടു കൂടി നടത്തുവാനാണ് ഇത്തവണ ഉദ്ദേശിച്ചിട്ടുള്ളത്. സാമൂഹികാധിഷ്ഠിത ദുരന്ത നിവാരണം സാധ്യമാക്കുക എന്നതാണ് പുതിയ കാലഘട്ടത്തിന്റെ ആവശ്യകത. ഈ വർഷം മാർച്ച് മാസത്തിൽ സംസ്ഥാനത്തെ എല്ലാ തീരദേശ ജില്ലകളിലും ഓരോ ബീച്ചുകൾ വീതം സംസ്ഥാന വ്യാപകമായി ഇത്തരം ഒരു പരിശീലന പരിപാടി നടത്തിയിരുന്നു. മാർച്ച് മാസത്തെ പരിപാടിയിൽ നിന്നും വ്യത്യസ്തമായി സെപ്റ്റംബറിലെ പരിശീലന പരിപാടിയിൽ തിരഞ്ഞെടുക്കപ്പെടുന്ന വില്ലേജുകളിലെ തീരത്തു നിന്നും 100 മീറ്റർ അകലത്തിനു ഉള്ളിൽ താമസിക്കുന്ന എല്ലാ വ്യക്തികളെയും വീടുകളിൽ നിന്നും ഒഴിപ്പിക്കുകയും പ്രസ്തുത സമയത്ത് ചിട്ടയോടുകൂടി ഇത്തരം ഒഴിപ്പിക്കൽ പ്രക്രിയ നടത്തുവാൻ ദുരന്തപ്രതികരണ സമയത്ത് പ്രവർത്തിക്കുന്ന വിവിധ വകുപ്പുകൾക്കും സമൂഹത്തിനും അവബോധമുണ്ടാക്കുകയും ചെയ്യുക എന്നതാണ് ലക്ഷ്യം. ഇതിന്റെ ഭാഗമായി സെപ്റ്റംബർ 7, 8 തീയതികളിൽ അമ്പലപ്പുഴ താലൂക്ക് ആര്യാട് തെക്ക് വില്ലേജിൽ ദുരന്ത നിവാരണ അതോറിറ്റി, ദേശീയ ദുരന്ത പ്രതികരണ സേന, തീരദേശ പോലീസ് എന്നിവരുടെ വിദഗ്ധർ പങ്കെടുക്കുന്ന പരിശീലന പരിപാടികൾ ഉണ്ടായിരിക്കും.

ഈ പരിപാടിയുടെ വിജയകരമായ പ്രവർത്തനത്തിന് എല്ലാ വിഭാഗം നല്ല വരായ നാട്ടുകാരുടെയും സഹകരണം പ്രതീക്ഷിക്കുന്നു.

☀️ **സുരക്ഷിത കേരളത്തിനായി നമുക്ക് ഒന്നിച്ചു മുന്നോട്ടം** ☀️

ഒരു DDMA പ്രസിദ്ധീകരണം.

- TH chettikadu and sahrudaya Hospital instructed to send the ambulance with medical team and 25% beds reserved –mobilise medical /paramedical staff and keep triage area ready - total 26 people sought medical aid at Munnodial temple
- Fire and Rescue team shall reach the site with ambulance, Jeep and other rescue machineries to help the rescue operations
- Coastal police immediately reach the site and regulate one-way traffic to & from the village through separate access roads
- Two NDRF members reach the site and evaluate the activities
- Information officer from I & PRD reach the site and collected information from onsite incident commander
- Give direction to DD education -Children’s who went to the school were requested to stay in the school until any message from the authorities
- The incident commander report to the DEOC every 30 minutes and take orders from the DEOC
- The DEOC report to SEOC and SDMA every 1 hour, regarding the status of activities
- At 1 pm evacuation process started and completed at 2.30 pm
- Taluk control room operationalised and food and other provisions are arranged under the supervision of Tahsildar
- Public living in 100 meter Coast line were evacuated
- 1 person was affected chest pain and supervised by the medical team . due to ECG variation the person was admitted to General Hospital and from where he is referred to Medical College Hospital
- Village Peoples Male-769, Female-1348 and Children -217 Total 2334 personnel were evacuated till 2.30 pm and shifted to people in 03 Tsunami relief centre

No of people evacuated to respective shelters

SHELTER	MALE	FEMALE	CHILREN	TOTAL
Munnodi	216	421	68	705
Mangalam	353	639	115	1107
Thumboli	200	288	34	522
Total	769	1348	217	2334

Details of loss as per the report from Taluk office

- Death cases : NIL
- Fullu damaged houses :12
- Partially damaged houses : 38
- Injured :52

- Hospitalised :41
- Loss of Fishing vessel : 3
- Fishing vessel partially damage : 5
- Coconut trees – 10
- Cattle loss :30
- 4 Wheelers : 1
- 2 Wheelers :3
- Cattle shed : 5

Debriefing

Debriefing Of Tsunami Mockdrill held at District collector Chamber at 5 pm

- Active participation of Public ,Municipal councilors , Kadalora Jagratha Samithis, C. D.S and Asha workers are very supportive
- Coordination and Response of all stakeholders was very good.
- Evacuation process was very well and systematic
- Ham radio teams are very active in Field

Difficulties faced

- Narrow roads
- Paucity of food and drinking water
- Railway crossing at 5 places

Suggestions for Improvement

- Public are not aware about Tsunami impacts, they are not supporting to rescue teams, so need to do more community awareness programme continuously in sea shore area
- Need for announcement in public
- Ham radio can be utilised more effectively
- Regular mockdrills will make the public aware what to do on unexpected and distress occasions

DEOC operated in the emergency time functions mode till threat passed message from SEOC





Debriefing at SEOC Office, Chaired by S Surendran IPS

Remarks from Independent observer at SEOC, Mr Joe John George, State Project Officer, GoI-UNDP Project, SEOC.

Observations

1. 31st Aug Planning meeting chaired by Hon'ble Minister, Revenue & DM was represented by all stakeholders (except Navy)
2. Preparations were made prior to the drill quite well
3. Handbook, Manual, Presentations were made available to all (including website disasterlesskerala.org)
4. Inter-departmental coordination was visible & SOPs followed
5. Communities were mobilized for awareness programme on 7th and for the drill on 8th Sept.
6. IDRN was used
7. SDMA control room was active, collected various details from taluk/village level, however, the control room numbers of taluks were not available with state control room.
8. Districts were proactive compared to the last drill
9. Head, SEOC guided the team well
10. Projections were made live, (maps, bulletins etc) all could follow. Presses on the need for video wall.
11. Placing HAs in each districts have smoothened the operations in the field level

Started @ 11:35 with 1st bulletin

Recommendations

1. Overall handled well even when the number of staff were less
2. 'Test Test Test' prefix was fully followed by SEOC, whereas it was not the case with districts/departments
3. Telephone lines (only one) were busy & could not communicate as expected
4. Fax had repeated errors – technical error
5. Distance between telephone & email desks restricted the communication between them
6. 3 mins delay noted by SIC in SMS messaging within the same room (SMS)
7. Oral messages could be avoided between the desks (chits/note pad)
8. DEOC, TVM did not receive any mail till 12:45
9. NGOs were not engaged for the community mobilizations/mock drill
10. Confusion in 100m affected area (population 5 in a village of Alappuzha)
11. Telephone communication was stressful
12. Women are evacuated more from the villages, hence women force should be involved more
13. Some districts sent the note in Malayalam (word format) which could not be opened
14. Acknowledgements were not received from many stakeholders
15. NRSC server was slow
16. INCOIS bulletins were delayed

Village	District	Beaches	Evacuated Population				Hospitalized
			Total Population	No.of Male	No.of Female	No. of Minors	
Kasargod	Kasargod	Cherangai	915	315	510	90	
Puthiyangadi	Kozhikode	Puthiyangadi	300				3
Aryad South	Alappuzha	Thomboli, Mangalam, Munooli	2334	769	1348	217	1
Pettah	Trivandrum	Shangumugam	162	93	66	3	
		Total - 6	3711	1177	1924	310	4

Response from various departments/forces.

a) NDRF

- Stakeholders are missing (Navy)
- Language – to have hindi/English

b) SDRF

- Trivandrum district was difficult
- Ppl have been transferred to many other places (Trained men are not available with SDRF)

c) Commissioner Land & Revenue

- Population data would be generated
- LSGD should be involved as they call shots in the local areas

d) Coast Guard

- Better than last time
- Community interaction programme – involving fishermen communities - Eg: Vizinjam harbor

e) Fire

- Actively participated
- (Late arrival)
- Coming to SEOC got late since SEOC is situated quite far from
- Do not have enough equipments for relief, rescue materials – ladders, sky lifts, scuba sets, vehicles

f) Army

- Recce team could be operated
- Communication flow was good.

g) Coastal Police

- Comparatively it was good
- One person each in each district of DEOC
- TVM district issues should be sorted out
- District police superintended shall be informed (coastal belt)
- NGOs could be involved for women
- Pls acknowledge message can be added in the mail itself
- Kadalora jagratha samithis (74) by next month it would be 100. Fishermen, public, VO, Police. Facilitated by coastal police. CI would be there. 8 police stations are there.
- Night time emergencies – review the set up (eg: try in a district may be Idukki)
- CM, Minsiter, CS, Secretary
- SEOC team, Dr Sekhar did well

POST DRILL EVALUATION form for Scenario II

TSUNAMI MOCK DRILL: 08 SEPTEMBER, 2016

NAME OF THE RECIPIENT : Dr Sekhar L. Kuriakose

ORGANIZATION NAME : State Emergency Operations Centre, State Disaster Management Authority, Kerala

ADDRESS :SEOC, ILDM, PTP Nagar, Thiruvananthapuram, Kerala. 695038

EMAIL : seoc.gok@gmail.com

PHONE NO : 0471 – 2364424

1. Validate the Dissemination/Receipt of Notifications between the Tsunami Warning Centre and your agency and access to the Website

(a) Complete the following table with the ITEWC notification message receipt times

Message Sent Time (IST)	Received Time (IST)	How Received	ITEWC Website Accessible? (Y/N)	Comments
11:30 Test Start	-	Fax		
		E-mail		
		SMS		
11:35 Bulletin 1	11.44	Fax	Y	
	11.35	E-mail		
	11.33	SMS		
11:40	12.05	Fax	Y	

Bulletin 2	11.4	E-mail		
	11.40	SMS		
12:15 Bulletin 3	12.28	Fax	Y	
	12.16	E-mail		
	12.15	SMS		
12:30 Bulletin 4	13.43	Fax		
	12.29	E-mail		
	12.29	SMS		
13:30 Bulletin 5	14.39	Fax	Y	FAX machine showed some technical error for few bulletins
	13.56	E-mail		
	13.40	SMS		
14:30 Bulletin 6	14.31	Fax	Y	
	14.32	E-mail		
	14.30	SMS		
15:30 Bulletin 7	15.49	Fax	Y	
	15.31	E-mail		
	15.30	SMS		
16:30 Bulletin 8	16.38	Fax	Y	
	16.29	E-mail		
	16.29	SMS		
17:30 Bulletin 9	17.31	Fax	Y	
	17.31	E-mail		

	17.30	SMS		
18:30 Bulletin 10	18.30	Fax	Y	
	18.29	E-mail		
	18.30	SMS		
19:30 Bulletin 11	19.31	Fax	Y	
	19.28	E-mail		
	19.29	SMS		
20:30 Bulletin 12	20.31	Fax	Y	
	20.29			
	20.29	SMS		
21:30 Bulletin 13	21.31	Fax	Y	
	21.29	E-mail		
	21.29	SMS		
22:30 Bulletin 14	22.32	Fax	Y	
	22.28	E-mail		
	22.28	SMS		
23:30 Bulletin 15	23.31	Fax	Y	
	23.29	E-mail		
	23.27	SMS		

(b) Was the tsunami threat information available on the ITEWC website?

YES

Remarks/Suggestions: Website server was slow

2. Were you able to understand the bulletins, assess status of the threat to your coastal areas and make decisions regarding public response?

YES

Remarks/Suggestions:

3. Was any other information available to support local decision making?

YES

Remarks/Suggestions: State had Emergency Support Functions Plan (ESFP) laid out in handbook on disaster management vol 2.

4. Do you have a formal Standard Operating Procedure (SOP) for tsunami response?

YES

Remarks/Suggestions: The State has SOP on Tsunami and other hazards.

If yes, How well did your SOPs perform for generating and disseminating tsunami warnings.

Extremely well

5. What actions were taken after receiving messages?

Please list times as well as actions.

Sl. No.	Action Taken	Time (IST)
01	After receiving the message it was confirmed with INCOIS ITEWC by SEOC	11:35
02	Bulletins from 1-15 were received and disseminated to the districts as well as participating departments of the State.	Within 1 - 5 minute interval of receiving the message.

6. Did your organization issue tsunami warning messages to other organizations / government agencies?

YES

If YES, please include details of organizations/other government agencies you have contacted

Sl. No.	Disseminated To	Time (IST)	Dissemination mode (Fax/Email/Phone etc)
1	Police, SDRF, NDRF, ITBP,Air force, Fire force, Army, Costal police,Commissioner Land Revenue, Coastguard and 4 district collectors/ DDMA's (Alappuzha, Trivandrum,Kozhikkode, Kasaragoad)	11.42	E-mail
2	Police, SDRF, NDRF, ITBP,Air force, Fire force, Army, Costal police,Commissioner Land Revenue, Coastguard and 4 district collectors/ DDMA's (Alappuzha, Trivandrum,Kozhikkode, Kasaragoad)	11.56	E-mail
3	Police, SDRF, NDRF, ITBP,Air force, Fire force, Army, Costal police,Commissioner Land Revenue, Coastguard and 4 district collectors/ DDMA's (Alappuzha, Trivandrum,Kozhikkode, Kasaragoad)	12.16	E-mail
4	Police, SDRF, NDRF, ITBP,Air force, Fire force, Army, Costal police,Commissioner Land Revenue, Coastguard and 4 district collectors/ DDMA's (Alappuzha, Trivandrum,Kozhikkode, Kasaragoad)	12.25	E-mail
5	Police, SDRF, NDRF, ITBP,Air force, Fire force, Army, Costal police,Commissioner Land Revenue, Coastguard and 4 district collectors/ DDMA's (Alappuzha, Trivandrum,Kozhikkode, Kasaragoad)	3	E-mail
6	Police, SDRF, NDRF, ITBP,Air force, Fire force, Army, Costal police,Commissioner Land Revenue, Coastguard and 4 district collectors/ DDMA's (Alappuzha, Trivandrum,Kozhikkode, Kasaragoad)	3.25	E-mail
7	Coastal Police	3.19	E-mail
8	ITBP	3.22	E-mail
	All stakeholders	4.18	E-mail

7. Did your organization receive confirmation of warning messages from other organizations / government agencies

YES (Very few departments acknowledged)

If YES, please include details of organizations /other government agencies

Sl. No.	Received From	Time (IST)	Information Received	Reception mode (Fax/Email/Phone etc)
1	NDRF	11.42	SEOC	E mail
2	DEOC,Kozhikode	11.56	SEOC	E mail
3	Police	12.27	SEOC	E mail
4	SDMA Control Room	12.40	SEOC	E mail
5	DEOC,Trivandrum	12.54	SEOC	E mail
6	DEOC, Kasragoad	1.38	SEOC	E mail

8. Did your organization issue tsunami warning messages to public?

NO. The warning messages were not issued to public directly from SEOC. It was done by DEOC/DDMA at the district level.

If YES, please identify the modes that were employed to notify and instruct the public?

N.A

Method used to disseminate information to public	Yes/No	Arrangements Exists Yes/No
Telephone	Yes	
SMS	Yes	
Public Radio		
TV		
Website	Yes	
Sirens	Yes	
Public announcement system	Yes	
Public call centre		
Police	Yes	
Door-to-door announcements		
Other (specify)		

9. Did your organization communicate with Media during the event?

YES

Remarks/Suggestions:

10. If tsunami warning was issued, at what time was the warning cancelled? What was the reason for cancellation?

Time of Cancellation: NA

Reason for Cancellation: NA

Remarks/Suggestions: NA

11. Did your organization maintain communication with the Tsunami Warning Centre throughout the event?

Yes

Remarks/Suggestions: SEOC maintained the communication with the TWC throughout the event via telephone, email, SMS

12. Assessment of the elapsed time until the public were notified:

Activity	Elapsed Time (e.g. 1hr 15mins)
Making a decision on public warning (From time of receipt of warning)	N.A.
Formulation/compilation of public Notification (From time of decision)	N.A.
Activation of public notification systems (After formulation of public notification)	N.A. (SEOC did not communicate directly with the public)
Total Time	

13. Were any areas evacuated?

YES

If YES, please provide details in the following table: Area Evacuated	Time (IST)	People were moved to	Estimated No. of People Evacuated
Kasaragod	14:00	Temporary/Safe Shelters	915 (M – 315, F – 510& Minor - 90)
Puthiyangadi, Kozhikode	14:15	Temporary/Safe Shelters	204 (M-90, F-84& Minor - 30)
Aryad South, Alappuzha	14:30	Temporary Shelters	2334 (M – 769, F –1348 & Minor - 217)
Pettah, Trivandrum	15:00	Temporary Shelters	162 (M – 93, F – 66 & Minor-3)

(Total Evacuated – 3615)

(a) **If an evacuation occurred, did the process happen smoothly?**

YES

If NO, please provide details of problems encountered:

In one village, people were reluctant to move since it was just a drill.

14. Were tsunami evacuation maps available?

Yes

Remarks/Suggestions:

15. The Level of Community awareness of the local tsunami risk

High

Remarks/Suggestions:

16. Have community members received any prior evacuation training?

No in some places, YES in some place

Remarks/Suggestions: In some places, Yes

17. Did the community receive an all-clear message?

SEOC has disseminated the all clear message to the concerned stakeholders, which would be further communicated to the communities.

If Yes, at what time: Not Sure

Remarks/Suggestions:

18. Whether the drill contributed to the improvement or the development of planning related to public warnings and other response activities required for an event of this nature.

YES

Remarks/Suggestions: The stakeholder departments could identify the strengths and areas of improvement in each department.

19. How could future evacuation drills be improved?

Remarks/Suggestions: Prior planning is needed to make it more effective. Community participation should be improved with the help of PRI, CSO, CBO, NGOs in the area.

20. Whether the drill planning, conduct, format and style were satisfactory.

Strongly Agree

Remarks/suggestions:

- 1) Since a similar exercise was done in the month of March, the State decided to hold the drill only in 4 districts.
- 2) State decided to have Level 2 participation by involving 4 villages from 4 districts of the State, hence village communities were identified to provide trainings on the previous day with appropriate IEC materials
- 3) Messages were relayed by way of FM radio announcements, handouts, Newspaper advertisements etc, hence it has reached widely to the communities which were participating and others as well.

Officials present at SEOC

Sl.No	Name & Designation	Department	Arrival Time
1	Shri P H Kurien IAS, State Incident Commander (State Relief Commissioner)	Revenue	11:45
2	S Surendran IPS Assitant Inspector General Police, Coastal Police	Coastal Police	12:30
3	Kapil Verman, Deputy Commandant, 04 BN NDRF, Arakkonam	NDRF	11:20
4	Jacob Sanjay Jolin, Senior Supdt, CLR	Revenue	12:14
5	Dr.Binoy S Babu	DHS	12:30
6	N Raja Assistant Commandant Coast Guard, Vizhinjam	Coast Guard	13:10
7	Sooraj S Station Officer, Fire & Rescue	Fire & Rescue	13:10
8	Ajith Kumar B	AC, RRRF	13:10
9	Lt Arun Verma	Army	14:50
10	Capt Vincent Khiangte	Army	14:50

SEOC Staff

Sl. No:	Name	Designation	Role
1	Dr Sekhar L Kuriakose	Member Secretary, KSDMA & Head, SEOC	Overall Coordination
2	Parvathy S	Technical Expert	Email Desk
3	Pradeep G S	Hazard Analyst	Telephone/Fax Desk
4	Anupama N	Hazard Analyst	Email Desk
5	Sunil K Babu	Office Manager	Facilitating air drop
6	Nisha M R	Accountant	Telephone/Fax Desk
7	Biji S	Office Assistant	Assist
8	Belaram S	Office Attendent	Assist
9	Joe John George	State Project Officer	Independent Observer

ANNEXURES

Introduction

The tsunami mock drill exercise was conducted in 4 coastal districts of Kerala on 8th September 2016, viz. Kasaragod, Kozhikode, Alappuzha & Thiruvananthapuram. In all the districts EOCs were activated under the guidance of respective DDMA's. Hazard Analyst of SEOC was deputed in all the districts to facilitate the process & communication. The evaluation reports are attached herewith in the order

- 1) Kasaragod
- 2) Kozhikode
- 3) Alappuzha
- 4) Thiruvananthapuram

1) DISTRICT : Kasaragod

APPENDIX V: POST DRILL EVALUATION form for Scenario II

TSUNAMI MOCK DRILL: 08 SEPTEMBER, 2016

Please fill up the details in this form and return it to INCOIS by Fax (040-23895012) or email (ajay@incois.gov.in)

NAME OF THE RECIPIENT : Sruthi Ravindran

ORGANIZATION NAME : District Emergency Operations Centre

ADDRESS : DEOC, Civil Station, Kasaragod, Kerala - 671123

EMAIL : kascoll.ker@nic.in

PHONE NO : 04994-257700

1. **Validate the Dissemination/Receipt of Notifications between the Tsunami Warning Centre and your agency and access to the Website**

- (a) **Complete the following table with the ITEWC notification message receipt times**

Message Sent Time (IST)	Received Time (IST)	How Received	ITEWC Website Accessible? (Y/N)	Comments
11:30 Test Start		Fax		
	11.40	E-mail		
		SMS		
11:35 Bulletin 1		Fax	NA	Notification message only received from SEOC and SDMA
	11.45	E-mail		
		SMS		
11:40 Bulletin 2		Fax	NA	Notification message only received from SEOC and SDMA
	11.50	E-mail		
		SMS		
12:15 Bulletin 3		Fax	NA	Notification message only received from SEOC and SDMA
	12.20	E-mail		
		SMS		
12:30 Bulletin 4		Fax	NA	Notification message only received from SEOC and SDMA
	12.35	E-mail		
		SMS		
13:30 Bulletin 5		Fax	NA	Notification message only received from SEOC and SDMA
	13.45	E-mail		
		SMS		
14:30 Bulletin 6		Fax	NA	Notification message only received from SEOC and SDMA
	14.45	E-mail		
		SMS		
15:30 Bulletin 7		Fax	NA	Notification message only received from SEOC and SDMA
		E-mail		
		SMS		
16:30 Bulletin 8		Fax	NA	Notification message only received from SEOC and SDMA
		E-mail		
		SMS		
17:30 Bulletin 9		Fax	NA	Notification message only received from SEOC and SDMA
	6.20	E-mail		
		SMS		
18:30 Bulletin 10		Fax	NA	Notification message only received from SEOC and SDMA
	6.36	E-mail		
		SMS		

19:30 Bulletin 11		Fax	NA	Notification message only received from SEOC and SDMA
	7.32	E-mail		
		SMS		
20:30 Bulletin 12		Fax	NA	Notification message only received from SEOC and SDMA
	8.31			
		SMS		
21:30 Bulletin 13		Fax	NA	Notification message only received from SEOC and SDMA
	9.41	E-mail		
		SMS		
22:30 Bulletin 14		Fax	NA	Notification message only received from SEOC and SDMA
	10.31	E-mail		
		SMS		
23:30 Bulletin 15		Fax	NA	Notification message only received from SEOC and SDMA
	11.35	E-mail		
		SMS		

(b) **Was the tsunami threat information available on the ITEWC website?**

NA

Remarks/Suggestions:

2. **Were you able to understand the bulletins, assess status of the threat to your coastal areas and make decisions regarding public response?**

YES

Remarks/Suggestions:

3. **Was any other information available to support local decision making?**

YES

Remarks/Suggestions: State had Emergency Support Functions Plan (ESFP) laid out in handbook on disaster management vol 2.

4. **Do you have a formal Standard Operating Procedure (SOP) for tsunami response?**

YES

Remarks/Suggestions: State provide Standard Operating Procedure for Tsunami (Handbook on Disaster management Volume 2)

If yes, How well did your SOPs perform for generating and disseminating tsunami warnings.

Extremely well

5. What actions were taken after receiving messages?

Please list times as well as actions.

Sl. No.	Action Taken	Time (IST)
01	Received Tsunami alert from SEOC	11.40
02	Alert message forwarded to all participating departments and Kasaragod Taluk	Within 1 -5 minute interval of receiving the message.
03	The incident commander report to the DEOC and take orders from the DEOC	every 30 minutes
04	DEOC sent report to SEOC and SDMA regarding status of activities	Every 1 Hour
05	The District Incident Commander (DIC) [District Collector] reached the DEOC	11.43
06	DIC give directions to reach all DDMA members to DEOC and convened a Crisis Management Committee meeting to evaluate the threatening disaster situation Give directions to Kasaragode Taluk to set up control room Food and water provision was arranged in the shelter camps under the supervision of Tahsildar Decided 2 shelter camps for evacuation- Madrasa school and Govt. UP school, Kadappuram, Kasaba Tsunami prone Map and List of prone villages checked by DEOC	11.52
07	2 hunting lines which make communication easier	12.00
08	Department heads give direction to officers to reach the site immediately Onsite Incident Commander is Shri Sudhakkharan CI Coastal Police	12.05

09	Alert message received from SEOC about expected time of Tsunami waves hit at Kasaragod coast is 3.00 pm	12.20
10	Evacuation process started	1.00
11	Public living in 100m coastline completely evacuated	1.45
12	Wave hit confirmed at 3.00 pm , damage assessment report sent to State Emergency Operation Centre (SEOC) and State Disaster Management Control Room (SDMA) A total of 915 Village People were evacuated till 01.45 pm and shifted to people in 02 Tsunami relief centre 1 nose injury reported and reffered to taluk hospital after giving first aid by the medical team	3.05
13	Debriefing of Tsunami Mock Drill event at District Collector's Chamber	5.00
14	DEOC operated in the emergency time functions mode till threat passed message from SEOC	11.30

6. Did your organization issue tsunami warning messages to other organizations / government agencies?

YES

If YES, please include details of organizations/other government agencies you have contacted

Sl. No.	Disseminated To	Time (IST)	Dissemination mode (Fax/Email/Phone etc)
01	Fire & Rescue, Police, Coastal Police Police,DD Fisheries, KSEB,PRD, District Panchayath, Health, KSRTC, PWD, RTO,, DTPC, and Kasaragode taluk	11.43	SMS and Phone
02	Fire & Rescue, Police, Coastal Police Police,DD Fisheries, KSEB,PRD, District Panchayath, Health, KSRTC, PWD, RTO,, DTPC, and Kasaragode taluk	12.08	SMS and Phone
03	Fire & Rescue, Police, Coastal Police Police,DD Fisheries, KSEB,PRD, District Panchayath, Health, KSRTC, and Kasaragode taluk	12.25	SMS and Phone
04	NDRF	12.50	Phone
05	Fire & Rescue, Police, Coastal Police Police,DD Fisheries, KSEB,PRD, District Panchayath, Health, KSRTC, and Kasaragode taluk	2.30	SMS and Phone
06	ire & Rescue, Police, Coastal Police Police,DD Fisheries, KSEB,PRD, District Panchayath, Health, KSRTC, and Kasaragode taluk	3.15	SMS and Phone

7. Did your organization receive confirmation of warning messages from other organizations / government agencies

NO

If YES, please include details of organizations /other government agencies

Sl. No.	Received From	Time (IST)	Information Received	Reception mode (Fax/Email/Phone etc)
1	Taluk Control Room	11:50	DEOC, Kasaragod	Phone
2	Coastal Police	11:55	DEOC, Kasaragod	Phone
3	Local Police	12:10	DEOC, Kasaragod	Phone
4	Fire Force	12:11	DEOC, Kasaragod	Phone
5	Health	12:12	DEOC, Kasaragod	Phone
6	NDRF	12:30	DEOC, Kasaragod	Phone

8. Did your organization issue tsunami warning messages to public?

If YES, please identify the modes that were employed to notify and instruct the public?

Method used to disseminate information to public	Yes/No	Arrangements Exists Yes/No
Telephone	YES	YES
SMS	YES	YES
Public Radio	NO	NO
TV	NO	NO
Website	NO	NO
Sirens	YES	YES
Public announcement system	YES	YES
Public call centre	YES	YES
Police	YES	YES
Door-to-door announcements	YES	YES

9. Did your organization communicate with Media during the event?

YES

Remarks/Suggestions: Media actively participated

10. **If tsunami warning was issued, at what time was the warning cancelled? What was the reason for cancellation?**

Time of Cancellation: NA

Reason for Cancellation:NA

Remarks/Suggestions:NA

11. **Did your organization maintain communication with the Tsunami Warning Centre throughout the event?**

NA

Remarks/Suggestions:

12. **Assessment of the elapsed time until the public were notified:**

Activity	Elapsed Time (e.g. 1hr 15mins)
Making a decision on public warning (From time of receipt of warning)	5
Formulation/compilation of public Notification (From time of decision)	10
Activation of public notification systems (After formulation of public notification)	25
Total Time	40

13. **Were any areas evacuated?**

YES

(a) **If YES, please provide details in the following table:**

Area Evacuated	Time (IST)	People were moved to	Estimated No. of People Evacuated
3km coastal area of Cherangai Kadappuram village is evacuated	02.00	Temporary shelters	Total 915

(b) **If an evacuation occurred, did the process happen smoothly?**

YES

Some people moved to their relative's houses

14. **Were tsunami evacuation maps available?**

YES

Remarks/Suggestions: FROM SEOC

15. The Level of Community awareness of the local tsunami risk

High

Remarks/Suggestions:

16. Have community members received any prior evacuation training?

Yes

Remarks/Suggestions:

17. Did the community receive an all-clear message?

YES

If Yes, at what time: 11.35 PM

Remarks/Suggestions:

18. Whether the drill contributed to the improvement or the development of planning related to public warnings and other response activities required for an event of this nature.

YES

Remarks/Suggestions:

19. How could future evacuation drills be improved?

- Regular community awareness programme is recommended which will help the public to face any disastrous situation in future
- Proper Planning can improve future evacuation drills

20. Whether the drill planning, conduct, format and style were satisfactory.

YES

Remarks/suggestions:

APPENDIX V: POST DRILL EVALUATION form for Scenario II**TSUNAMI MOCK DRILL: 08 SEPTEMBER, 2016**

Please fill up the details in this form and return it to INCOIS by Fax (040-23895012) or email (ajay@incois.gov.in)

NAME OF THE RECIPIENT : Aswathi P

ORGANIZATION NAME : District Emergency Operations Centre

ADDRESS : DEOC, Civil Station, Kozhikode, Kerala - 673020

EMAIL : dmcellkozhikode@gmail.com

PHONE NO : 0495 - 2371002

1. Validate the Dissemination/Receipt of Notifications between the Tsunami Warning Centre and your agency and access to the Website

(a) Complete the following table with the ITEWC notification message receipt times

Message Sent Time (IST)	Received Time (IST)	How Received	ITEWC Website Accessible? (Y/N)	Comments
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		SMS		
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	11:39	E-mail		
		SMS		
11:40 Bulletin 2		Fax	Y	
	11:43	E-mail		
		SMS		
12:15 Bulletin 3		Fax	Y	
	12:18	E-mail		

		SMS		
12:30 Bulletin 4		Fax	Y	
	12:38	E-mail		
		SMS		
13:30 Bulletin 5		Fax	Y	
	13:29	E-mail		
		SMS		
14:30 Bulletin 6		Fax	Y	
	14:35	E-mail		
		SMS		
15:30 Bulletin 7		Fax	Y	
	15:34	E-mail		
		SMS		
16:30 Bulletin 8		Fax	Y	
	16:38	E-mail		
		SMS		
17:30 Bulletin 9		Fax	Y	
	17:32	E-mail		
		SMS		
18:30 Bulletin 10		Fax	Y	
	18:36	E-mail		
		SMS		
19:30 Bulletin 11		Fax	Y	
	19:32	E-mail		
		SMS		
20:30 Bulletin 12		Fax	Y	
	20:31			
		SMS		
21:30 Bulletin 13		Fax	Y	Website server was slow
	21:41	E-mail		
		SMS		
22:30 Bulletin 14		Fax	Y	
	22:31	E-mail		
		SMS		
23:30 Bulletin 15		Fax	Y	
	23:35	E-mail		

		SMS		
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(b) Was the tsunami threat information available on the ITEWC website?

Yes

Remarks/Suggestions: Website server was very slow

2. Were you able to understand the bulletins, assess status of the threat to your coastal areas and make decisions regarding public response?

Yes

Remarks/Suggestions:

3. Was any other information available to support local decision making?

Yes

Remarks/Suggestions: District had State Emergency Support Functions Plan (ESFP) laid out in handbook on disaster management vol 2.

4. Do you have a formal Standard Operating Procedure (SOP) for tsunami response?

Yes

Remarks/Suggestions:

If yes, How well did your SOPs perform for generating and disseminating tsunami warnings.

Good

5. What actions were taken after receiving messages?

Please list times as well as actions.

Sl. No.	Action Taken	Time (IST)
1	Crisis Management meeting of DDMA and first message to media	11:45
2	Taluk Control Room set up	11:46
3	Bulletins from 1-15 were received and disseminated to the Taluk Control Room and participating line departments of the District.	Within 3 minutes of receiving the message

6. Did your organization issue tsunami warning messages to other organizations / government agencies?

Yes

If YES, please include details of organizations/other government agencies you have contacted

Sl. No.	Disseminated To	Time (IST)	Dissemination mode (Fax/Email/Phone etc)
1	Local Police, RRF, NDRF, Fire force, Costal police, Coastguard, DMO and Taluk Control Room.	11:46	E-mail
2	Local Police, RRF, NDRF, Fire force, Costal police, Coastguard, DMO and Taluk Control Room.	11:58	E-mail
3	Local Police, RRF, NDRF, Fire force, Costal police, Coastguard, DMO and Taluk Control Room.	12:20	E-mail
4	Local Police, RRF, NDRF, Fire force, Costal police, Coastguard, DMO and Taluk Control Room.	12:30	E-mail
5	Local Police, RRF, NDRF, Fire force, Costal police, Coastguard, DMO and Taluk Control Room.	14:55	E-mail
6	Local Police, RRF, NDRF, Fire force, Costal police, Coastguard, DMO and Taluk Control Room.	15:12	E-mail

7. Did your organization receive confirmation of warning messages from other organizations / government agencies

Yes

If YES, please include details of organizations /other government agencies

Sl. No.	Received From	Time (IST)	Information Received	Reception mode (Fax/Email/Phone etc)
1	Taluk Control Room	11:49	DEOC, Kozhikode	Phone
2	Coastal Police	12 noon	DEOC, Kozhikode	Phone
3	Local Police	12:12	DEOC, Kozhikode	Phone
4	Health	12:12	DEOC, Kozhikode	Phone
5	NDRF, RRF	12:14	DEOC, Kozhikode	Phone
6	Fire Force	12:15	DEOC, Kozhikode	Phone

8. Did your organization issue tsunami warning messages to public?

Yes

If YES, please identify the modes that were employed to notify and instruct the public?

Method used to disseminate information to public	Yes/No	Arrangements Exists Yes/No
Telephone		
SMS		
Public Radio	Yes	
TV	Yes	
Website		
Sirens	Yes	
Public announcement system	Yes	
Public call centre		
Police	Yes	
Door-to-door announcements	Yes	

9. Did your organization communicate with Media during the event?

Yes

Remarks/Suggestions: PRD official at DEOC and also at onsite for continuous monitoring.

10. If tsunami warning was issued, at what time was the warning cancelled? What was the reason for cancellation?

Time of Cancellation: NA

Reason for Cancellation: NA

Remarks/Suggestions: NA

11. Did your organization maintain communication with the Tsunami Warning Centre throughout the event?

NA

Remarks/Suggestions: All communications regarding Tsunami Mock Drill were made with SEOC.

12. Assessment of the elapsed time until the public were notified:

Activity	Elapsed Time (e.g. 1hr 15mins)
Making a decision on public warning (From time of receipt of warning)	2 minutes
Formulation/compilation of public Notification (From time of decision)	5 minutes
Activation of public notification systems (After formulation of public notification)	Half an hour
Total Time	37 minutes

13. Were any areas evacuated?

Yes

(a) If YES, please provide details in the following table:

Area Evacuated	Time (IST)	People were moved to	Estimated No. of People Evacuated
Puthiyangadi, Kozhikode	14:15	Temporary/Safe Shelters	204 (M-90, F-84 & Minor - 30)

(b) If an evacuation occurred, did the process happen smoothly?

Yes

If NO, please provide details of problems encountered:

14. Were tsunami evacuation maps available?

Yes

Remarks/Suggestions:

15. The Level of Community awareness of the local tsunami risk

Good

Remarks/Suggestions:

16. Have community members received any prior evacuation training?

Yes

Remarks/Suggestions:

17. Did the community receive an all-clear message?

Yes, from SEOC.

If Yes, at what time: 11:35 pm

Remarks/Suggestions:

18. Whether the drill contributed to the improvement or the development of planning related to public warnings and other response activities required for an event of this nature.

Yes

Remarks/Suggestions:

19. How could future evacuation drills be improved?

Remarks/Suggestions:

- Latest infrastructure for Fire and Rescue, Police etc..
- A squad to be created at Local/ Ward level to smoothly handle the situation.
- NDRF to be stationed in Kozhikode also.
- Prior planning is needed to make it more effective.

20. Whether the drill planning, conduct, format and style were satisfactory.

Yes

Remarks/suggestions:

3. DISTRICT : Alappuzha

APPENDIX V: POST DRILL EVALUATION form for Scenario II

TSUNAMI MOCK DRILL: 08 SEPTEMBER, 2016

Please fill up the details in this form and return it to INCOIS by Fax (040-23895012) or email (ajay@incois.gov.in)

NAME OF THE RECIPIENT : CHINTHUMOL C, LOCAL COMMUNITY MOBILISER

ORGANIZATION NAME : DISTRICT EMERGENCY OPERATION CENTRE , ALAPPUZHA

ADDRESS : DEOC, CIVIL STATION ,ALAPPUZHA, KERALA-688001

EMAIL : ddmaalp@gmail.com

PHONE NO : 0477-2238630

1. Validate the Dissemination/Receipt of Notifications between the Tsunami Warning Centre and your agency and access to the Website

(c) Complete the following table with the ITEWC notification message receipt times

Message Sent Time (IST)	Received Time (IST)	How Received	ITEWC Website Accessible? (Y/N)	Comments
11:30 Test Start		Fax		
		E-mail		
		SMS		
11:35 Bulletin 1	11.39	Fax	NA	Notification message only received from SEOC and SDMA
		E-mail		
		SMS		
11:40 Bulletin 2	12.08	Fax	NA	Notification message only received from SEOC and SDMA
		E-mail		
		SMS		
12:15 Bulletin 3	12.25	Fax	NA	Notification message only received from SEOC and SDMA
		E-mail		
		SMS		

12:30 Bulletin 4		Fax	NA	Notification message only received from SEOC and SDMA
	12.38	E-mail		
		SMS		
13:30 Bulletin 5		Fax	NA	Notification message only received from SEOC and SDMA
	13.36	E-mail		
		SMS		
14:30 Bulletin 6		Fax	NA	Notification message only received from SEOC and SDMA
	14.35	E-mail		
		SMS		
15:30 Bulletin 7		Fax	NA	Notification message only received from SEOC and SDMA
	15.36	E-mail		
		SMS		
16:30 Bulletin 8		Fax	NA	Notification message only received from SEOC and SDMA
	16.33	E-mail		
		SMS		
17:30 Bulletin 9		Fax	NA	Notification message only received from SEOC and SDMA
	17.20	E-mail		
		SMS		
18:30 Bulletin 10		Fax	NA	Notification message only received from SEOC and SDMA
	18.36	E-mail		
		SMS		
19:30 Bulletin 11		Fax	NA	Notification message only received from SEOC and SDMA
	19.32	E-mail		
		SMS		
20:30 Bulletin 12		Fax	NA	Notification message only received from SEOC and SDMA
	20.31	E-mail		
		SMS		
21:30 Bulletin 13		Fax	NA	Notification message only received from SEOC and SDMA
	21.41	E-mail		
		SMS		
22:30 Bulletin 14		Fax	NA	Notification message only received from SEOC and SDMA
	22.31	E-mail		
		SMS		
23:30 Bulletin 15		Fax	NA	Notification message only received from SEOC and SDMA
	23.35	E-mail		
		SMS		

(d) Was the tsunami threat information available on the ITEWC website?

NA

Remarks/Suggestions:

2. Were you able to understand the bulletins, assess status of the threat to your coastal areas and make decisions regarding public response?

YES

Remarks/Suggestions:

3. Was any other information available to support local decision making?

YES

Remarks/Suggestions: State had Emergency Support Functions Plan (ESFP) laid out in handbook on disaster management vol 2.

4. Do you have a formal Standard Operating Procedure (SOP) for tsunami response?

YES

Remarks/Suggestions: State provide Standard Operating Procedure for Tsunami (Handbook on Disaster management Volume 2)

If yes, How well did your SOPs perform for generating and disseminating tsunami warnings.

Extremely well

5. What actions were taken after receiving messages?

Please list times as well as actions.

Sl. No.	Action Taken	Time (IST)
01	Received Tsunami alert from SEOC	11.39
02	Alert message forwarded to all participating departments and Ambalappuzha Taluk	Within 1 -5 minute interval of receiving the message.
03	The incident commander report to the DEOC and take orders from the DEOC	every 30 minutes
04	DEOC sent report to SEOC and SDMA regarding status of activities	Every 1 Hour
05	The District Incident Commander (DIC) [District Collector] reached the DEOC	11.45

06	<p>DIC give directions to reach all DDMA members to DEOC and convened a Crisis Management Committee meeting to evaluate the threatening disaster situation</p> <p>Give directions to Ambalappuzha Taluk to set up control room Food and water provision was arranged in the shelter camps under the supervision of Tahsildar</p> <p>Decided 3 muster points for evacuation- Munnodiyl Temple ground, Thumboli St. Thomas church ground & Mangalam church ground</p> <p>Tsunami prone Map and List of prone villages checked by DEOC</p>	11.50
07	<p>BSNL reached DEOC provided 10 hunting lines which make communication easier</p>	12.00
08	<p>Department heads give direction to officers to reach the site immediately</p> <p>Onsite Incident Commander is DYSP Alappuzha North Police station</p>	12.05
09	<p>Alert message received from SEOC about expected time of Tsunami waves hit at Alappuzha coast is 3.30 pm</p>	12.28
10	<p>Evacuation process started</p>	1.00
11	<p>Public living in 100m coastline completely evacuated</p>	2.30
12	<p>Wave hit confirmed at 3.30 pm , damage assessment report sent to State Emergency Operation Centre (SEOC) and State Disaster Management Control Room (SDMA)</p> <p>Village Peoples Male-769, Female-1348 and Children -217 Total 2334 personnel were evacuated till 2.30 pm and shifted to people in 03 Tsunami relief centre</p> <p>1 person seriously affected chest pain and supervised by the medical team referred to Medical College Hospital</p>	3.30
13	<p>Debriefing of Tsunami Mock Drill event at District Collector's Chamber</p>	5.00

14	DEOC operated in the emergency time functions mode till threat passed message from SEOC	11.30
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6. Did your organization issue tsunami warning messages to other organizations / government agencies?

YES

If YES, please include details of organizations/other government agencies you have contacted

Sl. No.	Disseminated To	Time (IST)	Dissemination mode (Fax/Email/Phone etc)
01	POLICE, FIRE FORCE, NDRF,SDRF,ITBP, COASTAL POLICE,DD FISHERIES, KSEB,PRD,BSNL,DISTRICT PANCHAYATH, HEALTH, KSRTC,IRRIGATION,PWD, RTO,PORT OFFICE, DTPC, AND AMBALAPPUZHA TALUK	11.39	SMS,Email and Phone
02	POLICE, FIRE FORCE, NDRF,SDRF,ITBP, COASTAL POLICE,DD FISHERIES, KSEB,PRD,BSNL,DISTRICT PANCHAYATH, HEALTH, KSRTC,IRRIGATION,PWD, RTO,PORT OFFICE, DTPC, AND AMBALAPPUZHA TALUK	12.08	SMS, Email and Phone
03	POLICE, FIRE FORCE, NDRF,SDRF,ITBP, COASTAL POLICE,DD FISHERIES, KSEB,PRD,BSNL,DISTRICT PANCHAYATH, HEALTH, KSRTC,IRRIGATION,PWD, RTO,PORT OFFICE, DTPC, AND AMBALAPPUZHA TALUK	12.25	SMS, Email and Phone
04	POLICE, FIRE FORCE, ITBP, COASTAL POLICE,DD FISHERIES, KSEB,PRD,BSNL,DISTRICT PANCHAYATH, HEALTH, KSRTC,IRRIGATION,PWD, RTO,PORT OFFICE, DTPC, AND AMBALAPPUZHA TALUK	3.25	SMS, Email and Phone
05	POLICE, FIRE FORCE, NDRF,SDRF,ITBP, COASTAL POLICE,DD FISHERIES, KSEB,PRD,BSNL,DISTRICT PANCHAYATH, HEALTH, KSRTC,IRRIGATION,PWD, RTO,PORT OFFICE, DTPC, AND AMBALAPPUZHA TALUK	3.31	SMS, Email and Phone
06	ITBP	3.22	SMS, Email and Phone
07	POLICE, FIRE FORCE, NDRF,SDRF,ITBP, COASTAL POLICE,DD FISHERIES, KSEB,PRD,BSNL,DISTRICT PANCHAYATH, HEALTH, KSRTC,IRRIGATION,PWD, RTO,PORT OFFICE, DTPC, AND AMBALAPPUZHA TALUK	11.36	SMS, Email and Phone

7. Did your organization receive confirmation of warning messages from other organizations / government agencies

YES

If YES, please include details of organizations /other government agencies

Sl. No.	Received From	Time (IST)	Information Received	Reception mode (Fax/Email/Phone etc)
01	Taluk control room	11.50	DEOC, Alappuzha	Phone
02	Fire and Rescue	11.52	DEOC, Alappuzha	Phone
03	Police	11.58	DEOC, Alappuzha	Phone
04	Health	1.55	DEOC, Alappuzha	Phone
05	BSNL	12.00	DEOC, Alappuzha	Phone
06	Fisheries	12.05	DEOC, Alappuzha	Phone

8. Did your organization issue tsunami warning messages to public?

If YES, please identify the modes that were employed to notify and instruct the public?

Method used to disseminate information to public	Yes/No	Arrangements Exists Yes/No
Telephone	YES	YES
SMS	YES	YES
Public Radio	NO	NO
TV	NO	NO
Website	NO	NO
Sirens	YES	YES
Public announcement system		
Public call centre	YES	YES
Police	YES	YES
Door-to-door announcements	YES	YES

9. Did your organization communicate with Media during the event?

YES

Remarks/Suggestions: PRD department and Dooradarsan channel actively participated in DEOC and field

10. If tsunami warning was issued, at what time was the warning cancelled? What was the reason for cancellation?

Time of Cancellation: NA

Reason for Cancellation:NA

Remarks/Suggestions:NA

11. Did your organization maintain communication with the Tsunami Warning Centre throughout the event?

NA

Remarks/Suggestions:

12. Assessment of the elapsed time until the public were notified:

Activity	Elapsed Time (e.g. 1hr 15mins)
Making a decision on public warning (From time of receipt of warning)	5 min
Formulation/compilation of public Notification (From time of decision)	10 min
Activation of public notification systems (After formulation of public notification)	20 min
Total Time	35 min

13. Were any areas evacuated?

YES

(c) If YES, please provide details in the following table:

Area Evacuated	Time (IST)	People were moved to	Estimated No. of People Evacuated
4 km coastal area of Aryad South village is evacuated	2.30	Temporary shelters (Munnodiyil Temple ground, Thumboli St. Thomas church ground & Mangalam church ground)	Male-769, Female-1348 and Children -217 Total 2334

(d) If an evacuation occurred, did the process happen smoothly?

YES

In some places most of the people are not move to shelter points, they went to their relative houses

14. Were tsunami evacuation maps available?

YES

Remarks/Suggestions: FROM SEOC

15. The Level of Community awareness of the local tsunami risk

Good

Remarks/Suggestions:

16. Have community members received any prior evacuation training?

NO

Remarks/Suggestions:

17. Did the community receive an all-clear message?

YES

If Yes, at what time: 11.35 PM

Remarks/Suggestions:

18. Whether the drill contributed to the improvement or the development of planning related to public warnings and other response activities required for an event of this nature.

YES

Remarks/Suggestions:

19. How could future evacuation drills be improved?

- Regular mockdrills will make the public aware what to do an unexpected and distress occasions
- Community awareness programme continuously in sea shore area
- Include HAM radio operators

20. Whether the drill planning, conduct, format and style were satisfactory.

YES

Remarks/suggestions:

4. DISTRICT : Thiruvananthapuram

APPENDIX V: POST DRILL EVALUATION form for Scenario II

TSUNAMI MOCK DRILL: 08 SEPTEMBER, 2016

Please fill up the details in this form and return it to INCOIS by Fax (040-23895012) or email (ajay@incois.gov.in)

NAME OF THE RECIPIENT : RAJEEV.T.R

ORGANIZATION NAME : DEOC, DDMA, Thiruvananthapuram

ADDRESS : District Collectrate, Thiruvananthapuram

EMAIL : dctvm@kerala.nic.in

PHONE NO : 9656665755

1. Validate the Dissemination/Receipt of Notifications between the Tsunami Warning Centre and your agency and access to the Website

(e) Complete the following table with the ITEWC notification message receipt times

Message Sent Time (IST)	Received Time (IST)	How Received	ITEWC Website Accessible? (Y/N)	Comments
11:30 Test Start		Fax		
	11.40	E-mail		
		SMS		
11:35 Bulletin 1		Fax	NA	Notification message only received from SEOC and SDMA
	11.45	E-mail		
		SMS		
11:40 Bulletin 2		Fax	NA	Notification message only received from SEOC and SDMA
	12.08	E-mail		
		SMS		

12:15 Bulletin 3		Fax	NA	Notification message only received from SEOC and SDMA
	12.25	E-mail		
		SMS		
12:30 Bulletin 4		Fax	NA	Notification message only received from SEOC and SDMA
	12.40	E-mail		
		SMS		
13:30 Bulletin 5		Fax	NA	Notification message only received from SEOC and SDMA
	13.35	E-mail		
		SMS		
14:30 Bulletin 6		Fax	NA	Notification message only received from SEOC and SDMA
	14.40	E-mail		
		SMS		
15:30 Bulletin 7		Fax	NA	Notification message only received from SEOC and SDMA
	15.35	E-mail		
		SMS		
16:30 Bulletin 8		Fax	NA	Notification message only received from SEOC and SDMA
	16.35	E-mail		
		SMS		
17:30 Bulletin 9		Fax	NA	Notification message only received from SEOC and SDMA
	17.35	E-mail		
		SMS		
18:30 Bulletin 10		Fax	NA	Notification message only received from SEOC and SDMA
	18.35	E-mail		
		SMS		
19:30 Bulletin 11		Fax	NA	Notification message only received from SEOC and SDMA
	19.40	E-mail		
		SMS		
20:30 Bulletin 12		Fax	NA	Notification message only received from SEOC and SDMA
	20.34			
		SMS		
21:30 Bulletin 13		Fax	NA	Notification message only received from SEOC and SDMA
	21.41	E-mail		
		SMS		
22:30 Bulletin 14		Fax	NA	Notification message only received from SEOC and SDMA
	22.36	E-mail		
		SMS		

23:30 Bulletin 15		Fax	NA	Notification message only received from SEOC and SDMA
	23 .35	E-mail		
		SMS		

(f) Was the tsunami threat information available on the ITEWC website?

NA

Remarks/Suggestions:

2. Were you able to understand the bulletins, assess status of the threat to your coastal areas and make decisions regarding public response?

YES

Remarks/Suggestions:

3. Was any other information available to support local decision making?

YES

Remarks/Suggestions:

4. Do you have a formal Standard Operating Procedure (SOP) for tsunami response?

YES

Remarks/Suggestions: State provide Standard Operating Procedure for Tsunami (Handbook on Disaster management Volume 2)

If yes, how well did your SOPs perform for generating and disseminating tsunami warnings?

Well

5. What actions were taken after receiving messages?

Please list times as well as actions.

Sl. No.	Action Taken	Time (IST)
1	Crisis Management meeting of DDMA and first message to media and Participating line departments	11:40
2	Taluk Control Room set up	11:46

3	Bulletins from 1-15 were received and disseminated to the Taluk Control Room and the participating line departments of the District.	Within 3 minutes after receiving the message
06	DIC give directions to reach all DDMA members to DEOC and convened a Crisis Management Committee meeting to evaluate the threatening disaster situation Give directions to Tahsildar for set up control room Food and water provision was arranged in the shelter camps under the supervision of Tahsildar St. Roches Public school, Pettah identified as the evacuation camp Tsunami prone Map and List of prone villages checked by DEOC	
09	Alert message received from SEOC about expected time of Tsunami waves hit at Trivandrum coast is 16.00	
10	Evacuation process started	14.00
11	Public living in 100m coastline completely	15.00
12	evacuated	
13	Debriefing of Tsunami Mock Drill event at District Collector's Chamber	5.00
14	DEOC operated in the emergency time functions mode till threat passed message from SEOC	11.30

6. Did your organization issue tsunami warning messages to other organizations / government agencies?

YES

If YES, please include details of organizations/other government agencies you have contacted

Sl. No.	Disseminated To	Time (IST)	Dissemination mode (Fax/Email/Phone etc)
01	POLICE, FIRE FORCE, ITBP, COASTAL POLICE, DD FISHERIES, KSEB, PRD, BSNL, DISTRICT PANCHAYATH, HEALTH, KSRTC, IRRIGATION, PWD, RTO, PORT OFFICE, DTPC, AND AMBALAPPUZHA TALUK	11.45	Email and Phone
02	POLICE, FIRE FORCE, ITBP, COASTAL POLICE, DD FISHERIES, KSEB, PRD, BSNL, DISTRICT PANCHAYATH, HEALTH, KSRTC, IRRIGATION, PWD, RTO, PORT OFFICE, DTPC, AND AMBALAPPUZHA TALUK	12.15	Email and Phone
03	POLICE, FIRE FORCE, ITBP, COASTAL POLICE, DD FISHERIES, KSEB, PRD, BSNL, DISTRICT PANCHAYATH, HEALTH, KSRTC, IRRIGATION, PWD, RTO, PORT OFFICE, DTPC, AND AMBALAPPUZHA TALUK	12.35	Email and Phone
04	POLICE, FIRE FORCE, ITBP, COASTAL POLICE, DD FISHERIES, KSEB, PRD, BSNL, DISTRICT PANCHAYATH, HEALTH, KSRTC, IRRIGATION, PWD, RTO, PORT OFFICE, DTPC, AND AMBALAPPUZHA TALUK	13.30	Email and Phone
05	POLICE, FIRE FORCE, ITBP, COASTAL POLICE, DD FISHERIES, KSEB, PRD, BSNL, DISTRICT PANCHAYATH, HEALTH, KSRTC, IRRIGATION, PWD, RTO, PORT OFFICE, DTPC, AND AMBALAPPUZHA TALUK	15.35	Email and Phone
06	ITBP	15.42	Email and Phone
07	POLICE, FIRE FORCE, ITBP, COASTAL POLICE, DD FISHERIES, KSEB, PRD, BSNL, DISTRICT PANCHAYATH, HEALTH, KSRTC, IRRIGATION, PWD, RTO, PORT OFFICE, DTPC, AND AMBALAPPUZHA TALUK	15.50	Email and Phone

7. Did your organization receive confirmation of warning messages from other organizations / government agencies

NO

If YES, please include details of organizations /other government agencies

Sl. No.	Received From	Time (IST)	Information Received	Reception mode (Fax/Email/Phone etc)

8. Did your organization issue tsunami warning messages to public?

If YES, please identify the modes that were employed to notify and instruct the public?

Method used to disseminate information to public	Yes/No	Arrangements Exists Yes/No
Telephone	NO	NO
SMS	YES	YES
Public Radio	YES	YES
TV	NO	NO
Website	NO	NO
Sirens	YES	YES
Public announcement system	YES	YES
Public call centre	NO	NO
Police	YES	YES
Door-to-door announcements	YES	YES

9. Did your organization communicate with Media during the event?

YES

Remarks/Suggestions: Media actively participated

10. If tsunami warning was issued, at what time was the warning cancelled? What was the reason for cancellation?

Time of Cancellation: NA

Reason for Cancellation:NA

Remarks/Suggestions:NA

11. Did your organization maintain communication with the Tsunami Warning Centre throughout the event?

NA

Remarks/Suggestions:

12. Assessment of the elapsed time until the public were notified:

Activity	Elapsed Time (e.g. 1hr 15mins)
Making a decision on public warning (From time of receipt of warning)	15 mins
Formulation/compilation of public Notification (From time of decision)	10
Activation of public notification systems (After formulation of public notification)	20
Total Time	

13. Were any areas evacuated?

YES

(e) If YES, please provide details in the following table:

Area Evacuated	Time (IST)	People were moved to	Estimated No. of People Evacuated
3 km coastal area Pettah village is evacuated	15.00	Temporary shelter (St. Roches Public School, Pettah)	Male-640, Female-958 and Children -187 Total- 1785

(f) If an evacuation occurred, did the process happen smoothly?

No

People don't want to move to shelters, they want to go their relatives home.

14. Were tsunami evacuation maps available?

YES

Remarks/Suggestions: FROM SEOC

15. The Level of Community awareness of the local tsunami risk

High

Remarks/Suggestions:

16. Have community members received any prior evacuation training?

NO

Remarks/Suggestions:

17. Did the community receive an all-clear message?

YES

If Yes, at what time: 23. 35 Remarks/Suggestions:

18. Whether the drill contributed to the improvement or the development of planning related to public warnings and other response activities required for an event of this nature.

YES

Remarks/Suggestions:

19. How could future evacuation drills be improved?

Regular mockdrills will make the public aware that what to do in unexpected disaster conditions, Active participation of the NGOs, Self Help Groups should ensure

20. Whether the drill planning, conduct, format and style were satisfactory.

YES

Remarks/suggestions:

കളക്ടറേറ്റ്, ആലപ്പുഴ
തീയതി : 27.09.2016
Phone : 0477 2251675, 2251676
Fax : 0477 2251720
E- mail:dcalp.ker@nic.in
Website: www.alappuzha.nic.in

പ്രേഷിതൻ,
ജില്ലാകളക്ടർ,
ആലപ്പുഴ.

സ്വീകർത്താവ്,
പ്രിൻസിപ്പൽ സെക്രട്ടറി,
റവന്യൂ (കെ) വകുപ്പ്,
സെക്രട്ടറിയേറ്റ്, തിരുവനന്തപുരം.

സർ,

വിഷയം:- സുനാമി മോക്ഡ്രിൽ 08-09-2016 റിപ്പോർട്ട്
സമർപ്പിക്കുന്നതു സംബന്ധിച്ച്.

സൂചന:- ബഹു. പ്രിൻസിപ്പൽ സെക്രട്ടറി റവന്യൂ (കെ) വകുപ്പിന്റെ
26/08/2016 ലെ 36480/K1/2016/DMD കത്ത്

സംസ്ഥാനത്ത് സുനാമി മോക്ഡ്രിൽ നടത്തുന്നത് സംബന്ധിച്ച് സൂചന പ്രകാരം അറിയിപ്പ് ലഭിച്ചപ്പോൾതന്നെ അതിനുള്ള തയ്യാറെടുപ്പുകൾ തുടങ്ങി. നിർദ്ദേശാനുസരണം 01-09-2016 ൽ തന്നെ ജില്ലാ ദുരന്ത നിവാരണം അതോറിറ്റി യോഗം വിളിക്കുകയും അമ്പലപ്പുഴ താലൂക്കിലെ ആര്യാട് തെക്ക് വില്ലേജിനെ മോക്ഡ്രില്ലിനായി തെരഞ്ഞെടുക്കുകയും ചെയ്തു. ഓരോ വകുപ്പുകളും ചെയ്യേണ്ടതായ കാര്യങ്ങൾ ടി യോഗത്തിൽ ചർച്ച ചെയ്തു മോക്ഡ്രില്ലുമായി ബന്ധപ്പെട്ട പ്രദേശങ്ങളിൽ നോട്ടീസുകൾ വിതരണം ചെയ്യുകയും പോസ്റ്ററുകൾ പ്രദർശിപ്പിക്കുകയും ചെയ്തു. കൂടുതൽ തയ്യാറെടുപ്പുകൾക്കായി എല്ലാ വകുപ്പ് ഉദ്യോഗസ്ഥന്മാരെയും ഉൾപ്പെടുത്തി 05-09-2016 ന് വീണ്ടും ഒരു യോഗം ചേരുകയും ഒരുക്കങ്ങൾ വിലയിരുത്തുകയും ചെയ്തു. പോലീസ്, ഫയർഫോഴ്സ്, ഹെൽത്ത്, റവന്യൂ, NDRF എന്നീ വകുപ്പുകൾ ചേർന്ന് സുനാമി മോക് ഡ്രിൽ പ്രദേശത്ത് 07-09-2016 ന് കമ്മ്യൂണിറ്റി ലെവൽ ക്ലാസ് എടുക്കുകയും ചെയ്തു.

08-09-2016 ന് രാവിലെ കൃത്യം 11.40 ന് തന്നെ ഭൂകമ്പമുണ്ടായതു സംബന്ധിച്ച് ഇ-മെയിൽ സന്ദേശം സംസ്ഥാന എമർജൻസി ഓപ്പറേഷൻസ് സെൻററിൽ നിന്നും ജില്ലാ ഓപ്പറേഷൻസ് സെൻററിൽ ലഭിച്ചു. ഉടൻ തന്നെ ജില്ലാ കളക്ടറെയും ജില്ലാ ദുരന്തനിവാരണ അതോറിറ്റിയിലെ മറ്റംഗങ്ങളെയും വിവരം അറിയിക്കുകയും എല്ലാ DDMA അംഗങ്ങളും 15 മിനിറ്റിനകം DEOC യിൽ എത്തി അടിയന്തിര യോഗം കൂടി സ്ഥിതിഗതികൾ വിലയിരുത്തുകയും തുടർന്ന് ദുരന്ത നിവാരണവുമായി ബന്ധപ്പെട്ട് എല്ലാ വകുപ്പുകൾക്കും സന്ദേശം കൈമാറി. ഓരോ വകുപ്പുകളും ചെയ്ത പ്രവൃത്തികൾ ചുവടെ ചേർക്കുന്നു.

BSNL

സന്ദേശം ലഭിച്ച് 10 മിനിറ്റുകൾക്കകം തന്നെ DEOC യെ ലാൻറ് ലൈൻ നമ്പരായ 0477-2238630 ന് 10 Hunting line കൾ അധികമായി നൽകി. കൂടാതെ കളക്ടറേറ്റ്, ആര്യം തെക്ക് വില്ലേജ്, ജില്ലാ ആശുപത്രി എന്നീ പ്രദേശങ്ങളിൽ ബ്രോഡ്ബാൻഡ് സംവിധാനം ശക്തിപ്പെടുത്തുകയും ചെയ്തു.

പോലീസ്

സുനാമി മുന്നറിയിപ്പ് ലഭിച്ചതിനെ തുടർന്ന് ശക്തമായ പോലീസ് സേന പ്രസ്തുത സ്ഥലത്ത് നിലയുറപ്പിച്ചു. ഓൺസൈറ്റ് ഇൻസിഡൻറ് കമാണ്ടറുടെ ചുമതല DYSP ഏറ്റെടുത്തു. അവിടെയുണ്ടായിരുന്ന ജനങ്ങൾക്കും വിനോദസഞ്ചാരികൾക്കും സുനാമി മുന്നറിയിപ്പ് നൽകി. സുനാമി ബാധിത പ്രദേശങ്ങളിൽ നിന്ന് ജനങ്ങളെ ഒഴിപ്പിക്കുന്നതിൽ നിർണ്ണായക പങ്ക് വഹിച്ചു.

ഫയർ & റസ്ക്യൂ

സുനാമി മുന്നറിയിപ്പ് ലഭിച്ചയുടൻ തന്നെ പ്രസ്തുത സ്ഥലത്തേക്ക് ഫയർ & റസ്ക്യൂ ആലപ്പുഴ സ്റ്റേഷൻ ഓഫീസറുടെ നേതൃത്വത്തിൽ ജീപ്പ് ആംബുലൻസ്, ട്രെക്കർ എന്ന് എന്നിവയുമായി രക്ഷാപ്രവർത്തനത്തിൽ ഏർപ്പെട്ടു.

ആരോഗ്യം

മുന്നറിയിപ്പ് ലഭിച്ചതിനെ തുടർന്ന് ആംബുലൻസ് ഉൾപ്പെടെ മെഡിക്കൽ സംഘം പ്രസ്തുത സ്ഥലത്ത് എത്തിച്ചേർന്നു. പ്രദേശത്ത് താത്കാലിക

ചികിത്സാ കേന്ദ്രം ഏർപ്പെടുത്തുകയും, കേന്ദ്രത്തിൽ എത്തുന്നവർക്ക് അത്യാവശ്യ ചികിത്സ നൽകുകയും ചെയ്തു. റി.എച്ച്.ചെട്ടികാട്, സഹദ ആശുപത്രി എന്നിവിടങ്ങളിൽ ചികിത്സാ സൗകര്യം ഏർപ്പെടുത്തുകയും, 25% ബഡ്ജറ്റുകൾ അടിയന്തിര സാഹചര്യം നേരിടുന്നതിന് തയ്യാറാക്കിവയ്ക്കുകയും ചെയ്തു.

റവന്യൂ

DEOC ലെ റവന്യൂ, പോലീസ്, ഫയർ ഫോഴ്സ് വകുപ്പുകളിൽ നിന്നുള്ള എല്ലാ ജീവനക്കാരും ഡ്യൂട്ടിക്ക് എത്തി. കൺട്രോൾ റൂമിൽ 10+1 ഹൺദ്വിംഗ് ലൈൻ, Fax, SMS, E-mail, പോലീസ് വയർലെസ്സ്, ഹാംറേഡിയോ തുടങ്ങിയ വാർത്താവിനിമയ സംവിധാനങ്ങൾ വഴി നിർദിഷ്ട മാനദണ്ഡങ്ങൾ പാലിച്ചുകൊണ്ടുള്ള സുനാമി മോക്ഡ്രിൽ സന്ദേശങ്ങൾ കൈമാറാൻ എല്ലാ ഉദ്യോഗസ്ഥർക്കും നിർദ്ദേശം നൽകി. ലഭിക്കുന്ന സന്ദേശങ്ങൾ ഗ്രൂപ്പ് എസ്.എം.എസ് സംവിധാനം വഴി എല്ലാവരെയും അതാതു സമയങ്ങളിൽ തന്നെ അറിയിച്ചു.

അമ്പലപ്പുഴ താലൂക്കിൽ അടിയന്തിര സ്വഭാവത്തിൽ കൺട്രോൾ റൂമുണ്ടാക്കി. ആര്ട്ട് ടെക്ക് വില്ലേജിലെ വില്ലേജ് ഓഫീസർ ജനങ്ങളെ സുനാമി മോക്ഡ്രിൽ സംബന്ധിച്ച വിവരങ്ങൾ അറിയിച്ചു. 2334 പേരെ സുനാമി മോക്ഡ്രിലുമായി ബന്ധപ്പെട്ട് വിവിധ ക്യാമ്പുകളിലേക്ക് മാറ്റി. സുരക്ഷിത സ്ഥാനങ്ങളിലേക്ക് നീക്കം ചെയ്തവർക്ക് വില്ലേജ് ഓഫീസറുടെ നേതൃത്വത്തിൽ ലഘുദക്ഷണം കുടിവെള്ളം മുതലായവ നൽകിയും മറ്റ് ക്രമീകരണങ്ങൾ ഏർപ്പാടാക്കുകയും ചെയ്തു.

കോസ്റ്റൽ പോലീസ്

തോട്ടപ്പള്ളി കോസ്റ്റൽ പോലീസ് എസ്.ഐ യുടെ നേതൃത്വത്തിലുള്ള സംഘം പ്രസ്തുത പ്രദേശത്ത് ജനങ്ങളെ ബോധവൽക്കരിക്കുന്നതിൽ കടലോര ജാഗ്രതാ സമിതിയുമായി ചേർന്ന് പ്രവർത്തിക്കുകയും, സുനാമി രക്ഷാപ്രവർത്തനങ്ങളിൽ ഓൺസൈറ്റ് ഇൻസിഡൻറ് കമാണ്ടറെ സഹായിക്കുകയും ചെയ്തു.

NDRF

2 പേരടങ്ങുന്ന NDRF സംഘം പ്രസ്തുത സ്ഥലത്ത് രക്ഷാപ്രവർത്തനങ്ങളിൽ സജീവമായി പങ്കെടുത്തു.

ITBP

സുനാമി മുന്നറിയിപ്പ് ലഭിച്ചതിനെ തുടർന്ന് 65 പേരടങ്ങുന്ന സംഘം പ്രസ്തുത സ്ഥലത്ത് 1 മണിക്ക് എത്തിച്ചേരുകയും രക്ഷാപ്രവർത്തനങ്ങളിൽ സജീവമായി പങ്കെടുക്കുകയും ചെയ്തു.

KSRTC

സുനാമി മോക്ഡ്രിൽ മുന്നറിയിപ്പ് ബോർഡുകൾ വച്ചുകൊണ്ടുള്ള രണ്ട് KSRTC ബസുകൾ പ്രസ്തുത സ്ഥലത്ത് എത്തിച്ചേരുകയും ഇൻസിഡൻറ് കമാണ്ടർ നിർദ്ദേശിച്ച സ്ഥലത്ത് ജനങ്ങളെ സുരക്ഷിതമായി എത്തിക്കുകയും ചെയ്തു.

PRD

സുനാമി മുന്നറിയിപ്പ് സംബന്ധിച്ച വിവരങ്ങൾ യുദ്ധകാലടിസ്ഥാനത്തിൽ 10 മിനിട്ട് ഇടവേളകളിൽ മാധ്യമങ്ങൾക്ക് നൽകുകയും, മോക്ഡ്രില്ലിന് മുമ്പായി “കർട്ടൻ റേസർ” എന്ന നിലയിൽ പത്രക്കുറിപ്പ് തയ്യാറാക്കുകയും മാധ്യമങ്ങൾക്ക് നൽകുകയും പൊതുജനങ്ങൾക്കിടയിൽ സുനാമി മോക്ഡ്രിൽ സംബന്ധിച്ച് പ്രചാരം നടത്തുന്നതിനും, അവബോധമുണ്ടാക്കുന്നതിനും PRD ട്വ് സാധിച്ചു.

ഹാം റേഡിയോ

പ്രത്യേകിച്ച് യാതൊരു പ്രോട്ടോക്കോളും, ആവശ്യമില്ലാത്തതിനാലും, 5-ാം മിനിറ്റുകൾക്കുള്ളിൽ ടി സംവിധാനം ഏർപ്പെടുത്താൻ എന്നതിനാലും DEOC യിൽ ഹാം റേഡിയോ ഉപയോഗപ്പെടുത്തുന്നതിന് നിഷ്പ്രയാസം സാധിച്ചിട്ടുള്ളതും, മോക്ഡ്രില്ലിന്റെ ആദ്യാവസാനം വരെ ഹാം റേഡിയോ ഉപയോഗപ്പെടുത്താൻ സാധിച്ചിട്ടുള്ളതുമാണ്.


ആലപ്പുഴ മുനിസിപ്പാലിറ്റി

സുനാമി മോക്ഡ്രില്ലിനായി തെരഞ്ഞെടുത്ത ആദ്യാട് തെക്ക് വില്ലേജിലെ തീരപ്രദേശത്തെ 5 വാർഡുകളിലെ കൗൺസിലർമാർ ടി പ്രവൃത്തിയുമായി ബന്ധപ്പെട്ട ജനങ്ങളെ ബോധവൽക്കരിക്കുന്ന ക്ലാസുകളിലും മറ്റു പ്രവർത്തനങ്ങളിലും സജീവ പങ്കാളികളായിരുന്നു. ഇവരുടെ പ്രവർത്തനത്തിന് സ്മൃതർഹമാണ്.

SEOC ൽ നിന്നും സുനാമി മോക്ഡ്രിൽ മൂന്നറിയിപ്പ് പിൻവലിച്ചതിനെ തുടർന്ന് ജില്ലാ കളക്ടറുടെ അധ്യക്ഷതയിൽ എല്ലാ വകുപ്പ് മേധാവികളുടെയും ആര്യോട് സൗത്ത് വില്ലേജിലെ മോക്ഡ്രിൽ നടന്ന വാർഡുകളിലെ കൗൺസിലർമാരുടേയും യോഗം ജില്ലാ കളക്ടറുടെ ചേമ്പറിൽ ചേരുകയുണ്ടായി. എല്ലാ വകുപ്പുകളും പ്രതീക്ഷിച്ചതിലും ഭംഗിയായി തന്നെ മോക്ഡ്രില്ലിൽ പങ്കെടുത്ത് അവരവരുടെ വകുപ്പുകളുടെ പങ്കാളിത്തവും, നിസ്വാർത്ഥ സേവനവുമാണ് കാണിച്ചതെന്ന് യോഗം വിലയിരുത്തി. ഇത്തരം മോക്ഡ്രില്ലുകൾ സംഘടിപ്പിക്കുന്നതു മൂലം വകുപ്പുകൾ തമ്മിലുള്ള ഐക്യവും അടിയന്തിര ഘട്ടങ്ങൾ നേരിടുന്നതിനുള്ള ധൈര്യവും കൈവരിക്കാനാവുമെന്ന് യോഗം വിലയിരുത്തി. ഓരോ വകുപ്പുകൾ സമർപ്പിച്ച അഭിപ്രായങ്ങളെയും, സുനാമി മോക്ഡ്രിൽ പ്രവർത്തനങ്ങൾ വിലയിരുത്തി DDMA അംഗം കൂടിയ ആലപ്പുഴ ഡെപ്യൂട്ടി ഡയറക്ടർ ഓഫ് ഫിഷറീസ് തയ്യാറാക്കിയ റിപ്പോർട്ടും ഇതു സഹിതം ചേർത്ത് സമർപ്പിക്കുന്നു.

വിശ്വസ്തയോടെ,
ഒപ്പ്.
ജില്ലാ കളക്ടർ.

ഉത്തരവിൻപ്രകാരം,


ഡെപ്യൂട്ടി കളക്ടർ (ഡി.എം.)

2016/45937/4

DMC-16874/16

താലൂക്ക് ഓഫീസ്, അമ്പലപ്പുഴ

തീയതി - 20/09/2016

പ്രേക്ഷിതൻ

തഹസീൽദാർ
അമ്പലപ്പുഴ



സ്വീകർത്താവ്
ജില്ലാ കളക്ടർ
ആലപ്പുഴ

സർ,

വിഷയം :- 08/09/2016 ൽ സംഘടിപ്പിച്ച സുനാമി മോക്ക് ഡ്രിൽ - റിപ്പോർട്ട് സമർപ്പിക്കുന്നത് - സംബന്ധിച്ച്.

സൂചന :-

DMC

UNESCO യുടെ അന്തർ ദേശീയ സമുദ്രകാര്യ കമ്മീഷന്റെ നിർദ്ദേശ പ്രകാരം ആലപ്പുഴ ജില്ലയിൽ അമ്പലപ്പുഴ താലൂക്കിലെ ആര്യാട് തെക്ക് വില്ലേജ് പരിധിയിൽ 08/09/2016 ന് സംഘടിപ്പിച്ച സുനാമി മോക്ക് ഡ്രിൽ സംബന്ധിച്ച റിപ്പോർട്ട് ചുവടെ ചേർക്കുന്നു.

08/09/2016 രാവിലെ 11.30 ന് സുനാമി അലർട്ട് താലൂക്ക് ഓഫീസ് കൺട്രോൾ റൂമിൽ ലഭിച്ചതിനെ തുടർന്ന് വിവരം വില്ലേജ് ഓഫീസറെ അറിയിക്കുകയും തഹസീൽദാരുടെ നേതൃത്വത്തിലുള്ള റവന്യൂ സംഘം താലൂക്കാഫീസിൽ നിന്നും പുറപ്പെടുകയും 11.40 ന് മുന്നോടി ക്ഷേത്രത്തിന് സമീപം Onsite Commander ആയ ആലപ്പുഴ DYSP മുന്മാകെ റിപ്പോർട്ട് ചെയ്യുകയും ചെയ്തു. 3.30 ന് ആര്യാട് തെക്ക് വില്ലേജിന്റെ തീര പ്രദേശത്ത് സുനാമി തിരകൾ അടിക്കുമെന്നും ഒരു മണിക്കറിനകം ഒഴിപ്പിക്കൽ നടപടികൾ ആരംഭിച്ച് 2.30 നകം എല്ലാ ജനങ്ങളെയും ഒഴിപ്പിച്ചിരിക്കണമെന്നും 12.50 ന് നിർദ്ദേശം ലഭിച്ചതിനെ തുടർന്ന് ഉച്ചയ്ക്ക് 1 മണിയോടു കൂടി ഒഴിപ്പിക്കൽ നടപടി ആരംഭിക്കുവാൻ Onsite Commander ആയ ആലപ്പുഴ DYSP എല്ലാ വകുപ്പുകൾക്കും നിർദ്ദേശം നൽകി ആയതിന്റെ അടിസ്ഥാനത്തിൽ ഒഴിപ്പിക്കൽ നടപടികൾ ആരംഭിക്കുകയും മുന്നോടി ക്ഷേത്രം വക കോമ്പൗണ്ട്, മംഗലം പള്ളി, തുമ്പോളി പള്ളി എന്നിവിടങ്ങളിലെ പുനരധിവാസ

കേന്ദ്രങ്ങളിലേക്ക് തുമ്പോളി, മംഗലം, കാഞ്ഞിരംചിറ, വാടക്കനാൽ, സീവ്യ എന്നീ വാർഡുകളിലെ 2334 പേരും ഒഴിപ്പിച്ചിട്ടുള്ളതുമാണ്. ആയതിന്റെ വിശദമായ കണക്ക് ചുവടെ ചേർക്കുന്നു.

	Female	Male	Children	Total
മുന്നോടി -	421	216	68	705
മംഗലം പള്ളി -	639	353	115	1107
തുമ്പോളി പള്ളി -	288	200	34	522
ആകെ				2334

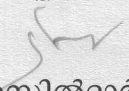
08/09/16 ന് 3.30 ന് സുനാമി തിരകൾ ആദ്യാട് തെക്ക് വില്ലേജിലെ 5 വാർഡുകളിൽ അടിച്ചതിനെ തുടർന്നുണ്ടായ നാശ നഷ്ടങ്ങളുടെ സാങ്കല്പിക കണക്ക് താഴെ പറയും പ്രകാരമാണ്.

വീട്	(പൂർണ്ണ നാശം)	-	12
വീട്	(ഭാഗിക നാശം)	-	30
പരിഷ്കേറ്റവർ		-	52
ആശുപത്രിയിൽ പ്രവേശിപ്പിച്ചവർ		-	41
മരണം		-	0
വള്ളങ്ങൾക്കുണ്ടായ നാശ നഷ്ടം	(പൂർണ്ണം)	-	3
വള്ളങ്ങൾക്കുണ്ടായ നാശ നഷ്ടം	(ഭാഗികം)	-	5
തെങ്ങുകൾ		-	10
കന്നുകാലികൾ		-	30
ഫോർ വീലർ		-	1
ടൂവിലർ		-	3
സൈക്കിൾ		-	7
തൊഴുത്ത്		-	5

RDO, പോലീസ്, ഫയർ ആന്റ് റെസ്ക്യൂ, ITBP, NDRF, Coastal Police
മെഡിക്കൽ സംഘം, Ham Radio, KSRTC, Fisheries എന്നിവരുടെ സേവനവും
ലഭ്യമായിരുന്നു.

ടി വിവരം മേൽ നടപടികൾക്കായി റിപ്പോർട്ട് ചെയ്തു കൊള്ളുന്നു.

വിശ്വസ്തയോടെ


തഹസീൽദാർ



“ഭരണഭാഷ മാതൃഭാഷ”

നമ്പർ.1707/2016 എ.എസ്.ഡി

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ആലപ്പുഴ ഡെപ്യൂട്ടി പോലീസ് സൂപ്രണ്ടിന്റെ കാര്യാലയം.

തീയതി. 08.09.2016

ഫോൺ: 0477 2237388

ഇ മെയിൽ: dyspalpy.pol@kerala.gov.in

പ്രേഷകൻ

ഡെപ്യൂട്ടി പോലീസ് സൂപ്രണ്ട്
ആലപ്പുഴ

സ്വീകർത്താവ്

ജില്ലാ കളക്ടർ
ആലപ്പുഴ

സർ,

വിഷയം. സുനാമി മോക്ക് ഡ്രിൽ നടത്തിയത്. റിപ്പോർട്ട് സമർപ്പിക്കുന്നത് സംബന്ധിച്ച്.

സൂചന. നം.ഡി.എം.സി4-4785/15 തീയതി 01.09.2016

മേൽ വിഷയത്തിലേക്ക് അങ്ങയുടെ ശ്രദ്ധ ക്ഷണിച്ച് കൊള്ളുന്നു. മേൽ നിർദ്ദേശ പ്രകാരം 08.09.2016 തീയതി സുനാമി മോക്ക് ഡ്രിൽ പങ്കെടുത്തിട്ടുള്ളതാകുന്നു. ഇന്നേ ദിവസം 12.10 മണിയോട് കൂടി DDMA യിൽ നിന്നും സുനാമി ഉണ്ടാകും എന്ന് അലേർട്ട് മെസ്സേജ് ലഭിച്ചയുടൻ സുനാമി ബാധിത പ്രദേശമായി പ്രഖ്യാപിച്ചിട്ടുള്ള സീവ്യൂവാർഡ്, വാടകനാൽ, കാഞ്ഞിരംചിറ, മംഗലം, തുമ്പോളി ഭാഗത്തേക്ക് പരമാവധി പോലീസ് ഉദ്യോഗസ്ഥരുമായി എത്തുവാൻ ആലപ്പുഴ സൗത്ത്, നോർത്ത്, പുള്ളിമുക്ക് പോലീസ് ഇൻസ്പെക്ടർമാർക്കും, ടൗൺ പ്രദേശത്തുള്ള എസ്.എച്ച്.ഒ മാർക്കും, കൺട്രോൾ റൂം വാഹനങ്ങൾക്കും നിർദ്ദേശം കൊടുത്തിട്ടുള്ളതും, സുനാമി ബാധിത പ്രദേശത്തേക്കുള്ള വാഹന ഗതാഗതം തിരിച്ചു വിടുന്നതിനും, ദുരന്തത്തിൽ പെട്ടവരെ രക്ഷപ്പെടുത്തുന്നതിനും, ഷെൽട്ടർ പോയന്റുകളായ ശ്രീ മുന്നോടി ക്ഷേത്രം, മംഗലം ക്രിസ്ത്യൻ പള്ളി ഗ്രൗണ്ട്, തുമ്പോളി ക്രിസ്ത്യൻ ഗ്രൗണ്ട് എന്നിവിടങ്ങളിലെത്തിക്കാൻ ആവശ്യമായ ഏർപ്പാട് ചെയ്തശേഷം ഞാൻ മുന്നോടി ക്ഷേത്രത്തിലെ ഷെൽട്ടർ പോയന്റി ലെത്തിയിട്ടുള്ളതാണ്. തുടർന്ന് മാസ് മീഡിയ ടീം, ആർ.ഡി.ഒ, ഫയർഫോഴ്സ് ടീം, അമ്പലപ്പുഴ തഹസിൽദാർ, ആർ.ആർ.ആർ.എഫ്, എൻ.ഡി.ആർ.എഫ് ടീം, ഐ.ടി.ബി.പി ടീം എന്നിവർ എത്തിയിട്ടുള്ളതുമാണ്. 13.00 മണിയോട് കൂടി സ്ഥലത്ത് എത്തിച്ചേർന്ന ലോക്കൽ പോലീസ്, കോസ്റ്റൽ പോലീസ്, ഫയർഫോഴ്സ്, എൻ.ഡി.ആർ.എഫ്, വിവിധ സർക്കാർ വകുപ്പ് ഉദ്യോഗസ്ഥരുമായി ചേർന്ന് സുനാമി ബാധിത പ്രദേശത്ത് നിന്നും ജന

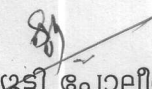
ങ്ങളെയും, വ്യാപാരികളെയും ഷെൽട്ടർ പോയന്റായ മുന്നടോടി ക്ഷേത്ര കോമ്പളിയിൽ എത്തിച്ചിട്ടുള്ളതും വിവിധ ഡിപ്പാർട്ട്മെന്റ് വാഹനങ്ങൾ, കെ.എസ്.ആർ.ടി.സി ബസ്സുകൾ എന്നിവകളുടെ സഹായത്തോടുകൂടി അവരെ സുരക്ഷിതമായി സ്ഥലത്ത് നിന്ന് നീക്കം ചെയ്തിട്ടുള്ളതുമാണ്. വൈദ്യസഹായം ആവശ്യമായ വിദേശികൾ ഉൾപ്പെടെയുള്ളവർക്ക് താൽക്കാലിക ക്ലിനിക്കിൽ നിന്നും പ്രാഥമിക ശുശ്രൂഷ നൽകിയ ശേഷം ആലപ്പുഴ ജനറൽ ആശുപത്രി, മെഡിക്കൽ കോളേജ് ആശുപത്രി എന്നിവിടങ്ങളിലേക്ക് ആംബുലൻസുകളിൽ അയച്ചിട്ടുള്ളതുമാണ്. തുടർന്ന് ഐ.ടി.ബി.പി സേനാംഗങ്ങൾ സ്ഥലത്ത് തിരിച്ചിൽ നടത്തിയിട്ടുള്ളതും 15.30 മണിയോടുകൂടി മോക്ഡ്രിൽ അവസാനിപ്പിച്ചിട്ടുള്ളതുമാണ്. ഇത്തരത്തിൽ നടത്തിയ സുനാമി മോക് ഡ്രിൽ വിജയകരമായിരുന്നുവെന്നും, ഉദ്യോഗസ്ഥർക്ക് സുനാമി പോലുള്ള ദുരന്തങ്ങളുണ്ടായാൽ ഏത് തരത്തിലുള്ള മുൻകരുതലുകൾ സ്വീകരിക്കണമെന്നുള്ളതിനും, എങ്ങനെ പ്രവർത്തിക്കണമെന്നുള്ളതിന് മികച്ച പരിശീലനം ലഭിച്ചിട്ടുള്ളതുമാണ്.

മോക്ഡ്രില്ലിനോടനുബന്ധിച്ച് ഷെൽട്ടർ പോയന്റുകളായ ശ്രീ മുന്നോടി ക്ഷേത്രത്തിൽ (സ്ത്രീകൾ-421, പുരുഷന്മാർ-216, കുട്ടികൾ-68), മംഗലം ക്രിസ്ത്യൻ പള്ളി ഗ്രൗണ്ടിൽ(സ്ത്രീകൾ-639, പുരുഷന്മാർ-353, കുട്ടികൾ-115), തുമ്പോളി ക്രിസ്ത്യൻ പള്ളി ഗ്രൗണ്ടിൽ (സ്ത്രീകൾ-288, പുരുഷന്മാർ-200, കുട്ടികൾ-34), എന്നിങ്ങനെ ജനങ്ങളെ എത്തിച്ചിട്ടുള്ളതാണ്.

സുനാമി സംബന്ധിച്ച് അയച്ച മെസ്സേജുകൾക്ക് പ്രത്യേക കോഡിംഗ് ഏർപ്പെടുത്തിയിരുന്നതിനാൽ ആയവ കൈകാര്യം ചെയ്യുന്നത് വളരെയധികം എളുപ്പമായിരുന്നു.

ബഹു. ജില്ലാ പോലീസ് മേധാവിയുടെ സമയാസമയങ്ങളിൽ ഉള്ള നിർദ്ദേശങ്ങൾ ലഭിച്ചിരുന്നതിനാൽ ഈ മോക്ഡ്രിൽ കൂടുതൽ കാര്യക്ഷമമാകുവാൻ സാധിച്ചിട്ടുള്ളതാണെന്നുള്ള വിവരത്തിന് റിപ്പോർട്ട് സമർപ്പിച്ചു കൊള്ളുന്നു.

വിശ്വസ്തതയോടെ,


 ഡെപ്യൂട്ടി പോലീസ് സൂപ്രണ്ട്
 ആലപ്പുഴ.

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Mock Drill - 8th September, 2016, Alappuzha
Report of activities done by Health Department

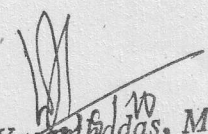
- 11 AM - Message received from DEOC about earthquake and threat of Tsunami
- JAMO & JAMO reaches the control room at District Collectorate at 12 Noon for DDMA meeting
- DDMA evaluates the situation. 3 muster points decided as Munnodiyl temple, Thumboli St Thomas school ground & Mangalam Church ground
 - On site incident commander (DySP Alappuzha North) stationed at Munnodiyl temple.
 - 12:12 PM - TH Chettikadu & GH Alappuzha instructed to send ambulance with medical team with instruction to report to on-site incident commander.
 - 12:14 PM - Administrative Officers at TH Chettikadu and Sahruduya hospital (private) instructed to reserve beds, mobilise medical/paramedical staff and keep triage area ready.
 - 12:16 PM – Two Technical Assistants & Deputy Mass Media Officer from DMO(H) instructed to proceed to the 3 muster points.
 - 12:26 PM - Ambulance from TH Chettikadu reaches Munnodiyl temple and proceeds to Thumboli St Thomas Church ground
 - 12:30 PM - Ambulance from GH Alappuzha reaches Munnodiyl temple
 - 15 beds each reserved at TH Chettikadu and Sahruduya hospital and the message conveyed to field medical teams
 - 1 person at Munnodiyl muster point developed acute chest pain. First aid given by medical team and shifted to GH Alappuzha. Later referred to MCH Vandanam with ECG changes.
 - Medical teams in station at the muster points .
 - Total 26 people sought medical aid at Munnodiyl temple if which 1 person was referred to GH Alappuzha and the rest were given first aid.
 - 3 30 PM – Message received from DEOC about Tsunami wave hit at Alleppey coast.

The field medical teams dispersed from their respective sites at 4 PM after receiving instructions from the respective RDOs and the on site incident commander.

Participants

1. Dr Vasanthadas D, DMO(H)
2. Dr Harikumar S, JAMO
3. Sri Baburaj, Technical Assistant Grade I
4. Sri Shaji, Technical Assistant Grade II
5. Smt Suja, Deputy Mass Media Officer
6. Dr Anas, RMO, GH Alappuzha
7. Dr Akhil, Medical Officer, GH Alappuzha along with medical team & ambulance
8. Dr Asha, AMO, TH Chettikadu
9. Dr Laiju, Medical Officer, TH Chettikadu along with medical team & ambulance
10. Sri. Suresh, JHI, W&C Hospital Alappuzha
11. Sri. Suman, JHI, GH Alappuzha




Vasanthadas, M D

HS7

संख्या:भा.ति.सी.पो/27वीं वा०/आसूचना/2016- 913
No. ITBP/27th Bn/Int/2016-
कार्यालय सेनानी, 27वीं वाहिनी, भा.ति.सी. पुलिस बल
Office of the Commandant, 27th Bn ITB Police Force
गृह मंत्रालय/भारत सरकार

Ministry of Home Affairs/ Government of India,
पत्रालय: नूरनाड सनाटोरियम, नूरनाड, जिला: अलाप्पुझा (केरल) पिन: 690571
P.O.: Nooranad Sanatorium, Nooranad, Distt: Alappuzha (Kerala) Pin-690571
दूरभाष: 0479-2382410 (कार्यालय) +91-8289940001 (मोबाईल)
Telephone No. 0479-2382410 (Office), +91-8289940001 (Mobile)
Email: comdt27thbn.itbp

दिनांक :

Date: 21-9-16

To

The Principal Secretary
Government of Kerala
Disaster Management (Revenue K) Department
Thiruvananthapuram
Kerala

Sub: CONDUCT OF TSUNAMI MOCK DRILL

Ref: YOUR LETTER NO. 36480/KI/2016/DMD DATED 26.08.16


Sir,

With regard to the subject and reference mentioned above, it is to inform that Officer-1, Subordinate Officers-8 and Others-56 of this Unit were participated in Tsunami mock drill conducted at Alappuzha on 8th Sept-2016.

2. During the Tsunami Mock Drill, ITBPF Troops reported for SEOC for field operations and combined operations were carried out along with local police to assess the damage and conducted search and rescue operations. Medical camp was also organized for local peoples and finally, Sh. Raj Kapoor, Assistant Commandant of this Unit has delivered a speech to local peoples on Tsunami and assured rapid assistance from ITBPF troops to the local peoples whenever and wherever they required services of ITBPF during such natural calamities.

3. The matter is submitted for your kind information please.

Yours faithfully,


Officer Commanding
27th Bn, ITB Police Force

29/9/16

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നം.ഡി-4255/16

അസിസ്റ്റന്റ് ഡിവിഷണൽ ഓഫീസറുടെ കാര്യാലയം
ഫയർ ആന്റ് റെസ്ക്യൂ സർവീസസ്, ആലപ്പുഴ
E-mail: adoalp.frs@kerala.gov.in
തീയതി: 20.09.2016

അസി:ഡിവിഷണൽ ഓഫീസർ,
ആലപ്പുഴ

ജില്ലാ കളക്ടർ
ആലപ്പുഴ

സർ,

വിഷയം: ഫയർ ആന്റ് റെസ്ക്യൂ സർവീസസ്, ആലപ്പുഴ - സുനാമി മോക്ക്ഡ്രിൽ റിപ്പോർട്ട് സമർപ്പിക്കുന്നത് - സംബന്ധിച്ച്

സൂചന : 08.09.2016 ൽ നടത്തിയ മോക്ക്ഡ്രിൽ

2) കായംകുളം സ്റ്റേഷൻ ഓഫീസറുടെ 09.09.16 ലെ കത്ത് നം.സി-420/16

ഏകദേശം 12 മണിയോടുകൂടി സുനാമി മോക്ക്ഡ്രിൽ സന്ദേശം ലഭിച്ചു. ഉടൻതന്നെ ജീപ്പ്, ആംബുലൻസ്, ട്രൈബ്ലൈറ്റ് എന്നിവയുമായി മോക്ക്ഡ്രിൽ നടത്തുന്ന സ്ഥലങ്ങളായ ആലപ്പുഴ ആര്യാട് തെക്ക് വില്ലേജിലെ തുമ്പോളി ബീച്ച്, മുന്നോടി ക്ഷേത്രം, തുമ്പോളി ക്രിസ്ത്യൻ പള്ളിക്ക് സമീപത്തെ ഗ്രൗണ്ട് എന്നിവിടങ്ങളിൽ സേനാംഗങ്ങളെ എത്തിക്കുകയും ബഹു:ഡി.വൈ.എസ്.പി.-യുടെ നിർദ്ദേശാനുസരണം 13.00 മണിക്ക് മോക്ക്ഡ്രിൽ ആരംഭിക്കുകയും ചെയ്തു. ഡ്രിൽ നടക്കുന്ന സ്ഥലങ്ങളുടെ സമീപത്തുള്ള വീടുകളിലും റിസോർട്ടുകളിലും ഉള്ള വിദേശികൾ അടക്കമുള്ള താമസക്കാരെയും പ്രദേശവാസികളെയും സേനയുടെ ആംബുലൻസിലും ജീപ്പിലുമായി നിർദ്ദേശിച്ച ക്യാമ്പുകളിൽ എത്തിക്കുകയും സുനാമിപോലുള്ള പ്രകൃതിദുരന്തങ്ങളിൽനിന്നും രക്ഷപ്പെടുന്നതിനുള്ള ബോധവൽക്കരണക്ലാസ്സും നടത്തുകയായി. 15.30 മണിക്ക് സുനാമി മോക്ക്ഡ്രിൽ അവസാനിക്കുകയും ബഹു:ഡി.വൈ.എസ്.പി.-യുടെ നിർദ്ദേശാനുസരണം വാർദ്ധക്യമുള്ള ആളുകളെ സേനയുടെ ആംബുലൻസിൽ തിരികെ വീടുകളിൽ എത്തിച്ചു. 16.00 മണിക്ക് ഡ്രിൽ നടത്തിയ സ്ഥലങ്ങളിൽ നിന്നും പൊതുജനങ്ങൾ പൂർണ്ണമായും പിരിഞ്ഞുപോയശേഷം സുരക്ഷിതത്വം ഉറപ്പുവരുത്തി സേനാംഗങ്ങളുമായി ആലപ്പുഴ നിലയത്തിൽ എത്തി. ടി വിവരങ്ങൾ അങ്ങയുടെ അറിവിലേക്കായി സമർപ്പിച്ചുകൊള്ളുന്നു.

വിശ്വസ്തതയോടെ,

No.285/TDR/2016 CPS

തീരദേശ പോലീസ് സ്റ്റേഷൻ
തോട്ടപ്പള്ളി, തീയതി-08.09.2016.
ഫോൺ - 0477 229 6100.

ഇ-മെയിൽ - shotplyalp.pol@kerala.gov.in

പ്രേഷിതൻ

പോലീസ് ഇൻസ്പെക്ടർ
തീരദേശ പോലീസ് സ്റ്റേഷൻ
തോട്ടപ്പള്ളി.

സ്വീകർത്താവ്

ബഹു. ജില്ലാ കളക്ടർ
ആലപ്പുഴ.

സർ,

വിഷയം - സുനാമി മോക്ക് ഡ്രിൽ- 2016 റിപ്പോർട്ട് സമർപ്പിക്കുന്നത്
സംബന്ധിച്ച്
സൂചന - No. 36480/K1/2016DMD, Dated: 26.08.2016 of Disaster
Management Dept, Govt. of Kerala.

മേൽ വിഷയത്തിലേക്കും സൂചനയിലേക്കും അങ്ങയുടെ ശ്രദ്ധ സാദരം ക്ഷണിക്കുന്നു.

ഉച്ചയ്ക്ക് 11.30 മണിക്ക് കൺട്രോൾ റൂമിൽ നിന്നും സുനാമി മുന്നറിയിപ്പ് സ്റ്റേഷനിൽ ലഭിച്ചയുടൻതന്നെ ഞാൻ SI Mirash John, GASI Abdul Shukkoor. M.O, CPOs' 4559, 5023, 5042, 5082, 5798, 6185, 6420, 6680 എന്നീ പോലീസ് സേനാഘടനകളും ബോട്ട് ജീവനക്കാരായ ശ്യാംഘോഷ്, രഞ്ജിത്, മുജീബ്, രാജേഷ്, അലക്സ്, നവാസ് എന്നിവരുമായി ആലപ്പുഴ ആര്യം സൗത്ത് വില്ലേജിന്റെ തീരപ്രദേശങ്ങളിലേക്ക് തിരികുകയും 12.00 മണിക്ക് കാഞ്ഞിരംചിറ, മംഗലം, തുമ്പോളി ഭാഗങ്ങളിൽ എത്തി സുനാമി മുന്നറിയിപ്പ് നൽകുകയും ചെയ്തു. 12.30 മണിക്ക് തീരത്ത് നിന്നും സുരക്ഷിത സ്ഥലത്തേക്ക് ആളുകളെ മാറ്റുന്ന നടപടി ആരംഭിച്ചു. 14.30 മണിക്ക് തീരത്ത് നിന്നും മുഴുവൻ ആളുകളെയും സുരക്ഷിത സ്ഥാനങ്ങളിലേക്ക് മാറ്റി. കാഞ്ഞിരംചിറ മുന്നോടി ശ്രീ ദേവീക്ഷേത്രം, മംഗലം മാക്സ് മില്ലൺ കോൾബേ ചർച്ച്, തുമ്പോളി പള്ളി എന്നിവയുടെ പരിസരത്താണ് ഒഴിപ്പിച്ച ആളുകളെ പാർപ്പിച്ചത്. മുന്നോടി ശ്രീ ദേവീക്ഷേത്ര പരിസരത്ത് 216 പുരുഷൻമാരും, 421 സ്ത്രീകളും, 68 കുട്ടികളും ഉൾപ്പെടെ ആകെ 705 പേരെ എത്തിച്ചു. മാക്സ് മില്ലൺ കോൾബേ ചർച്ച് പരിസരത്ത് 353 പുരുഷൻമാരും, 639 സ്ത്രീകളും, 115

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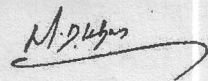
കുട്ടികളും ഉൾപ്പടെ ആകെ 1107 പേരെ എത്തിച്ചു. തുമ്പോളി പള്ളി പരിസരത്ത് 200 പുരുഷൻമാരും, 288 സ്ത്രീകളും, 34 കുട്ടികളും ഉൾപ്പടെ ആകെ 522 പേരെ എത്തിച്ചു. പരിക്കുപറ്റിയവർക്ക് പ്രഥമശുശ്രൂഷകൾ നൽകുന്നതിന് വേണ്ട സഹായങ്ങൾ ചെയ്തുകൊടുത്തു. കൂടുതൽ പരിക്കുപറ്റിയവരെ ആശുപത്രികളിലേക്ക് മാറ്റി. 15.00 മണിക്ക് സുരക്ഷിത സ്ഥലത്ത് പാർപ്പിച്ചിരുന്ന ആളുകൾക്ക് ഭക്ഷണമെത്തിച്ചു. 15.30 മണിക്ക് സുനാമി മോക്ക് ഡ്രിൽ അവസാനിച്ചതായി കൺട്രോൾ റൂമിൽ നിന്നും അറിയിപ്പ് ലഭിച്ചു.

NDRF, SDRF, ITBP, Ham Radio, Fire Force, Health Department, RRRF, Revenue Department, Fisheries Department, Municipal Councilors, CDS-Asha workers, ADS-Chairperson, Kudumbasree, KSRTC, കടലോര ജാഗ്രതാ സമിതി അംഗങ്ങൾ, Life Guards എന്നിവരും ആലപ്പുഴ Deputy Supdt. of Police, Sri. M.E. Shajahan അവർകളുടെ നേതൃത്വത്തിൽ പോലീസ് സംഘവും സുരക്ഷാ പ്രവർത്തനങ്ങളിൽ ഏർപ്പെടുകയുണ്ടായി.

തീരദേശത്തുള്ള റോഡുകളുടെ വീതി കുറവ്, റോഡുകളുടെ തകർച്ച, ജനങ്ങളുടെ അറിവ് കുറവ് മുതലായ കാര്യങ്ങൾ സുനാമി മോക്ക് ഡ്രില്ലിന് തടസ്സങ്ങളായിട്ടുണ്ട്.

സുനാമി മോക്ക് ഡ്രിൽ സംബന്ധിച്ച് തീരപ്രദേശത്ത് അനൗൺസ്മെന്റ് നടത്തുക, സുരക്ഷിത സ്ഥലങ്ങളിൽ പ്രാഥമിക കാര്യങ്ങൾ നിർവഹിക്കുന്നതിനുള്ള സൗകര്യം ഏർപ്പെടുത്തുക, ഇടുങ്ങിയ റോഡുകളിൽ വൺവേ സംവിധാനം ഏർപ്പെടുത്തുക തുടങ്ങിയ കാര്യങ്ങൾ ചെയ്യുന്നത് സുരക്ഷാ പ്രവർത്തനങ്ങൾ കൂടുതൽ കാര്യക്ഷമമാക്കുന്നതിന് സഹായിക്കും.

സവിനയം,



പോലീസ് ഇൻസ്പെക്ടർ
തീരദേശ പോലീസ് സ്റ്റേഷൻ
തോട്ടപ്പള്ളി.

**Format for the independent observer at SEOC, SDM Control Room,
DEOC and on-site**

1. Name of the Organization : DDMA, Alappuzha
2. Type of support function : Search & Rescue
(Eg. Medical, Relief, Search & Rescue)
3. Name of Team Leader : M.S.Saju
4. Designation in Parent Organization : Deputy Director of Fisheries and member, DDMA, Alappuzha
5. Contents of First message about Incident received and communication Mode : Tsunami alert- through phone call from DEOC, Alappuzha
6. Source of information (who sent it) : Junior Supdt.,
Collectorate,
Alappuzha
7. Time information received : 11.55 AM, 8.9.2016
8. Starting time from the base station/
Organization : 12.45 PM, DEOC
9. Time of arrival at Disaster site : 1.00 PM
10. Distance between base station and
disaster site (in Km) : 5 km.
11. Man power resources available and how : 3 Nos. carried
Much manpower carried
12. Equipment carried : NIL
13. Materials brought : Equipments for life
Saving, Fire fighting
and flood relief.

14. Vehicle brought (Give type) : • Ambulances, Vehicle
(For Use of incident command) for medical team,
Vehicle for mass
Evacuation, Fire and
Rescue vehicles, Two
Wheeler, ITBP,
NDRF, Police and
officers Vehicles.
- (Self use) : Department vehicle .

15. Difficulties faced

- Narrow roads and its bad conditions
- Paucity of food and drinking water
- Need for target specific awareness programmes
- 5 Nos. of the railway crossing.

16. Support agencies available

1. Medical team under DMO
2. Fire and Rescue
3. ITBP
4. NDRF
5. Ham radio
6. RRRF
7. Municipal Councilors
8. Kadalora Jagratha samithis
9. C.D.S

A77

20. Any other information, you would like to convey

- According to the Revenue Department information, the population of the five wards proposed to be evacuated from the village Aryad south are as follows

Ward	Male	Female	Children	Total
Thumboli	200	288	54	542
Mangalam	183	408	35	626
Kanjiramchira	170	231	47	448
Vadakal	109	216	38	363
Sea view ward	107	205	43	355
Total	769	1348	217	2334

- The No. of people evacuated in the respective shelters are as follows

Shelter	Male	Female	Children	Total
Munnodi	216	421	68	705
Mangalam	353	639	115	1107
Thumpoli	200	288	34	522
Total	769	1348	217	2334

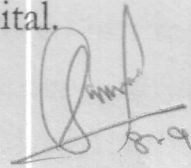
- Details of loss as per the report

- Death cases : NIL
- Fully damaged house : 12
- Partially damaged house : 38
- Injured : 52
- Hospitalised : 41
- Loss of fishing vessel
(with Engine and net- Full) : 3
- Fishing vessel partial damage : 5
- Coconut trees : 10

479

- Cattle loss : 30
- Four wheelers : 1
- Two wheelers : 3
- Cattle shed : 5

• During the Mock Drill, Sri. Narayana kurup (60) at Munnodi centre develop chest pain and supervised by the medical team. Since there was ECG variation, the person was admitted to General Hospital from where he is referred to Medical College Hospital.


8.9.16.
Dr Rochester
Alappuzha.

28230

**Format for the independent observer at SEOC, SDM
Control Room, DEOC and on - site**

- 1. Emergency Support Function (e.g. Search & Rescue, Medical) *Medical*
- 2. Responsible Officer (Name) *Dr. Bijoy*
- 3. Observer (Name) *Smt Tessa Helen Hamid*
- 4. Immediate Assessment of the Organization. *Very good*
- 5. Response of the Team to Disaster. *Very good*

Resources Available and their optimum utilization. *Very good*

Your assessment of the Organization in completion of task

- (a) 75-100% Success
- (b) 50-74 % Success
- (c) 30-50% Success
- (d) Less than 30% Success

(a)

Observers Comments (Frank Opinion, Good practices and weakness/shortcomings noticed). Over Grading

- (a) Excellent
- (b) Very Good
- (c) Good
- (d) Average
- (e) Poor

(b)

[Signature]
 26/9/2016
 JESSE HELEN HAMID
 SENIOR FINANCE OFFICER
 COLLECTORATE
 KOZHIKODE - 673 020

Format for the independent observer at SEOC, SDM
Control Room, DEOC and on-site

1. Name of the Organization Health
2. Types of Support Function (Eg. Medical, Relief, Search & Rescue)
Medical
3. Name of Team Leader
Dr. Bijoy
4. Designation in Parent Organization
DPM - NHRM
5. Contents of First Message about Incident received and Communication mode
Test Test Test this is Tennanti Mock drill Kerala September 2016 occurrence of an earthquake off the coast of Pakistan near Makran!! (Phone)
6. Source of Information (Who sent it)?
DEOC Asst Collector (UT) Nodal Officer
7. Time information received?
11:45 am
8. Starting time from the Base Station/Organization
12:12 pm
9. Time of arrival at Disaster Site
12:30 pm
10. Distance between Base Station and Disaster site (in Km)
9 km
11. Manpower Resources available and how much manpower carried
355 nos - 22 member team
12. Equipment carried
3 ambulances, mobile ICU, first aid kit and
13. Material Brought Basic life support ~~access~~ systems
Bandages, sutures, Medicines
14. Vehicle brought (Give type)
Departmental vehicle
 - For use of Incident Command
 - Self use

15. Difficulties faced *Digital Communication - Resolved*
when Incident Commands took charge

16. Support Agencies available

D M. MIMS & ANCELS

17. What was your Contribution in the Mock Drill?

Over all co-ordination

18. Learning from Mock Drill

Alertness

19. Suggestions for Improvement

Youth Organisations to be trained for

20. Any Other information, you would like to convey

*emergencies - Basic life support measures
awareness to your staff and locals.*

[Signature]
26/9/16

JESSE HELEN HAMID
SENIOR FINANCE OFFICER
COLLECTORATE
KOZHIKODE - 673 020

**Format for the independent observer at SEOC, SDM
Control Room, DEOC and on - site**

1. Emergency Support Function
(e.g. Search & Rescue, Medical)

Search and Rescue

2. Responsible Officer (Name)

Sri T.K. Venugopal, ACP

3. Observer (Name)

Jesse Helen Hamid

4. Immediate Assessment of the Organization: *Very Good*

5. Response of the Team to Disaster: *Very Good*

Resources Available and their optimum utilization. *Good*

Your assessment of the Organization in completion of task

- ~~(a) 75-100% Success~~ ~~(b) 50-74 % Success~~ (a)
- ~~(c) 30-50% Success~~ ~~(d) Less than 30% Success~~

Observers Comments (Frank Opinion, Good practices and
weakness/shortcomings noticed). Over Grading

(b)

(a) Excellent (b) Very Good (c) Good (d) Average (e) Poor

[Signature]
26/9/16

**Format for the independent observer at SEOC, SDM
Control Room, DEOC and on - site**

1. Name of the Organization *Search and Rescue
Coastal Police, local Police, Fire and Rescue,
NDRF and P,RRF*
2. Types of Support Function (Eg. Medical, Relief, Search & Rescue)
Search and Rescue.
3. Name of Team Leader
Sn. T.K. Venugopal ACP.
4. Designation in Parent Organization
ACP
5. Contents of First Message about Incident received and Communication mode
Test Test Test (this is Tsunami Mock drill Kerala September 2016 Occurance of an earthquake off the coast of Pakistan near Mehran" (Phone)
6. Source of Information (Who sent it)?
DEOC Asst Collector (UT) Noedl Officer
7. Time information received?
11.45 am
8. Starting Time from the Base Station/Organization
11.50 am
9. Time of arrival at Disaster Site
*Coastal police - 12 noon, NDRF + RRRF - 12.20.
Fire + Rescue 12.30, local police - 12.30*
10. Distance between Base Station and Disaster site (in Km)
*Coastal police - app. 2 km, Fire + Rescue - 12 kms
local police - app. 6 kms, NDRF + RRRF - 9 kms*
11. Manpower Resources available and how much manpower carried
900 - 320
12. Equipment carried
*Rescue Nets, Rope, slottchen, Fire tender 4 nos
Ambulance - 2 nos, 4 jeeps quick response vehicle*
13. Material Brought
Emergency Rescue Tender - 1 no.
14. Vehicle brought (Give type)
 - For use of Incident Command *Department vehicle*
 - Self use *NA*

15. Difficulties faced field level co-ordination lapses which
stage, under control as soon as On site Commanders
took charge
16. Support Agencies available

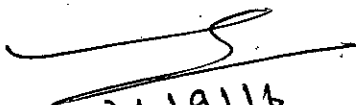
ANCLES, Locals.

17. What was your Contribution in the Mock Drill? Visited the site the
previous day, ascertain with locals that the message
had reached every house; overall co-ordination
18. Learning from Mock Drill

- Alertness and quick response to Dangerous situations.
19. Suggestions for Improvement

- Awareness classes to all departments and the
local people. Communication channels to be
20. Any Other information, you would like to convey

protected. (HAMS Radio to be ~~for~~ used to the maximum)
Latest infrastructure to be provided for rescue
to The Police and Fire and Rescue. A
Sena to be created at local / ward level
and given training to handle such situations.


26/9/16
JESSE HELEN HAMID
SENIOR FINANCE OFFICER
COLLECTORATE
KOZHIKODE - 673 020

**Format for the independent observer at SEOC, SDM
Control Room, DEOC and on - site**

1. Emergency Support Function
(e.g. Search & Rescue, Medical)

Relief

2. Responsible Officer (Name)

Sr. K. Balan, Tohsildar, Kozhikode

3. Observer (Name)

Smt Jesse Helen Hamid

4. Immediate Assessment of the Organization:

Good

5. Response of the Team to Disaster.

Very Good

Respires Available and their optimum utilization.

Very Good

Your assessment of the Organization in completion of task

(a) 75-100% Success

(b) 50-74 % Success

(c) 30-50% Success

(d) Less than 30% Success

(a)

Observers Comments (Frank Opinion, Good practices and
weakness/shortcomings noticed). Over Grading

(a) Excellent (b) Very Good (c) Good (d) Average (e) Poor

(b)

[Signature]
26/9/16
JESSE HELEN HAMID
SENIOR FINANCE OFFICER
COLLECTORATE
KOZHIKODE - 673 020

Format for the independent observer at SEOC, SDM
Control Room, DEOC and on - site

1. Name of the Organization Revenue
2. Types of Support Function (Eg. Medical, Relief, Search & Rescue)
Relief
3. Name of Team Leader Sri K. Balan
4. Designation in Parent Organization
Tahsildar, Kozhikode Taluk
5. Contents of First Message about Incident received and Communication mode
Test Test Test (this is Tsunami Mock Drill Kerala September 2016 - Occurrence of an earthquake off the coast of Pakistan near Malvan" (Phone)
6. Source of Information (Who sent it?)
DEOC (ACUT) Nodal officer DMD
7. Time information received?
11.45 am
8. Starting Time from the Base Station/Organization
12 noon
9. Time of arrival at Disaster Site
12.13 pm
10. Distance between Base Station and Disaster site (in Km)
9 kms
11. Manpower Resources available and how much manpower carried
70 nos — 10 nos
12. Equipment carried
List of necessary materials for rescue operations contacted the agencies
13. Material Brought water & food
Identified shelter where people could be accommodated
14. Vehicle brought (Give type)
Bolero and jeep
- For use of Incident Command
- Self use

15. Difficulties faced

Though awareness given, locals co-operated
by for exercise with one or two members from
~~full co-ordination~~ each family as Mock
drill

16. Support Agencies available

Village Office staff, DMD Section of Collectorate

17. What was your Contribution in the Mock Drill?

Over all co-ordination

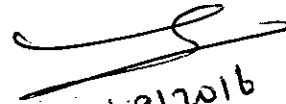
18. Learning from Mock Drill

To make quick and responsible decisions

19. Suggestions for Improvement

Training and awareness to Revenue Department

20. Any Other information, you would like to convey Officials and Staff.



26/9/2016

JESSE HELEN HAMID
SENIOR FINANCE OFFICER
COLLECTORATE
KOZHIKODE - 673 020

From

Ajith kumar.B
Assistant Commandant
RRRF,Trivandrum Wing
(Nodal Officer,Mock drill-2016)

To

The Commandant
RRRF, Pandikkad

Sir,

Sub: Tsunami Mock Drill-Final report submitting of-reg.
Ref: A2-14775/2016/RRRF-dtd-3-9-2016

Kind attention is invited to the reference cited.

As per the reference cited I have clearly monitor and supervised the movements of each party deployed in Tsunami mock drill conducted in Trivandrum,Alappuzha,Kozhikode and Kannur.The details are the following

TRIVANDRUM : In Trivandrum One Team headed with Sri.Hakkim,GAPSI was acted in evacuation and rescue party.Another team lead by Sri.Jayaraj deployed in Vayu bhavan (Air force station) attended the food drop drill conducted by Airforce. The party were deployed in different times according to the warning from SEOC and concerned District control room of DM.

The party were actively participated in the Mock drill from 11.Am to 5PM on 8/9/2016 and the briefing conducted by the District Authorities on 7/9/2016.

ALAPPUZHA : Sri.Manoj,APSI lead the team of SDRF at Thumboli Beach and actively participated with his team for the evacuation and crowd control.

KANNUR: In Kannur District The SDRF team was lead by Sri.Muraleedharan,APSI attended to assist the evacuation, crowd control, and rescue operation. They have performed their assignment from nellikkunnu Light house to Cherangayi beach.

KOZHIKODE : In Kozhikode the SDRF team was attended the Tsunami Mock drill in Butt road Beach.The team headed by Sri. Baiju,APSI.

SEOC : I have attended the meeting conducted by SEOC on 7/9/2016.Attended the analysis and evaluation of the mock Drill at SEOC from 9AM to 6Pm upto the de-

Briefing . Sri.P.H.Kurien,Principal Secretary,Revenue and incident commander of the Mock drill attended the evaluation with the officers of all other agencies include costal police,Navy,Army,Revenue,fire Force,NDRF and the staff of SEOC.

In de-briefing the over all performance of SDRF appreciated by Dr.Sekhar Kuriakose,Head(Scientist),SEOC,ILDM.He informed that the out put of SDRF in Kasargode,Kozhikode,Alappuzha and Trivandrum is satisfactory during the Mock drill.

The consolidated report received from the team leaders of SDRF in the prescribed Proforma were submitted to Head(scientist),SEOC for favour information and further necessary action.

Yours faithfully



Ajith Kumar.B

Assistant Commandant

RRRF,Tvpm Wing

(Nodal officer,Mock drill-2016)

Trivandrum
8-9-2016

Copy to: Sri.Sekhar Kuriakose,Member secretary,SDMA,Head(Scientist),SEOC,ILDM for favour of kind information and further necessary action

No. A 2-14775/2016/RRRF DTD : 06.09.2016

The consolidated report of Tsunami Mock Drill September 2016
conducted at THUMBOLI Beach,
ALAPPUZHA

District is submitted herewith for favor of kind information and necessary action.

SL No	Particulars to be furnished	Remarks
1	Name of the organization	SDRF
2	Type of Support Function (E.g.: Medical, Search & Rescue)	Police, Health dept., Fire force, ITBP, Revenue,
3	Name of Team leader	MANOJ.K.NAIR
4	Designation in the Parent Organization	APSI
5	Contents of First Message about incident received and Communication mode	DDMA ALAPPUZHA, mode : Phone message
6	Source Information (Who Sent it?)	DDMA ALAPPUZHA
7	Time information received	12:12
8	Starting time from the Base Station/ Organization	12:12
9	Time of arrival at Disaster Site	12:17
10	Distance between Base station and Disaster Site (KM)	6 k.m
11	Manpower Resources available and how much manpower carried	5 Men
12	Equipment Carried	yes
13	Material Brought	Dangery, Black Belt, Helmet, Glacing Jacket, Anglet
14	Vehicle Brought	KL 01 AS 8094 BOLERO
	Yes	
	For use of	

		Incident Command	DYSP ALAPPUZHA
		Self use	
15	Difficulties faced		YES
16	Support agencies available		Police, Health dept., Fire force, Revenue, Fisheries Dept. Ward Councilers, Asha Workers, Kadalora Jagradha Samithi.
17	What was your contribution in the Mock Drill		Healiping In Evacutation
18	Learning from Mock Drill		How to Manage a TSUNAMI situvation
19	Suggestions for improvement		Issued Good contition equipments
20	Any other information , you would like to convey		NO

Party Commander,
Tsunami Mock drill
ALAPPUZHA Dist.
September 2016

SL No	Particulars to be furnished	Remarks
1	Name of the organization	SDRF
2	Type support function (E.g.: Medical, Relief, Search & Rescue)	Police, Health dept., Fire Force, ITBP, Revenue
3	Name of Team Leader	MANOJ.K.NAIR
4	Designation in the Parent Organization	APSI
5	Contents of First Message about incident received and communication mode	DDMA ALAPPUZHA Mode: Phone message
6	Source of information (who sent it)	DDMA Alappuzha
7	Time information received	12:12
8	Starting time from the Base Station/ Organization	12:12
9	Time of arrival at Disaster site	12:17
10	Distance between Base station and Disaster site (km)	6 K.M
11	Manpower Resources available and how much manpower carried	5
12	Equipment carried	Yes
13	Material Bought	Dangery, Cap, Black Belt, Helmet, Glacing Jacket and Alglet.

14	Vehicle Brought	yes	KL 01 AS 8094 BOLERO DYSP ALAPPUZHA
		For use of Incident Command	
		Self use	
15	Difficulties faced		YES
16	Support agencies available		Police,HEalth Dept.,Fire Force,Revanue dept., Fisheries dept.Ward councilers,Asha workers,Kadalora Jagratha Samithi
17	What was your contribution in the Mock Drill		Helping in Ivacuvation
18	Learning from Mock Drill		How to manage a Tsunami Situvation
19	Suggestions for improvement		Awarnes of peple,isseu a good Equipments
20	Any other information , you would like to convey		NO

Party Commander,
Tsunami Mock drill
ALAPPUZHA _____ Dist.
September 2016

Message

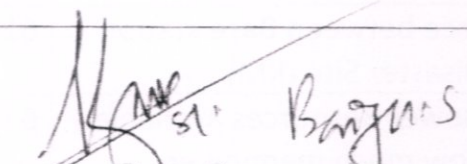
TO : Commandant, RRRF
INTO : DC/ACHQ/GCHQ/, RRRF, Pandikkad.
FROM : Party Commander, RRRF HQ Wing

No. A 2-14775/2016/RRRF DTD : 06.09.2016

The consolidated report of Tsunami Mock Drill September 2016 conducted at Batt Road Beach, Puthiyangadi Village, Kozhikkode District is submitted herewith for favor of kind information and necessary action.

SL No	Particulars to be furnished	Remarks
1	Name of the organization	Party for Tsunami Mock Drill-2016, RRRF Hq, Pandikkad, Malappuram.
2	Type of Support Function (E.g.: Medical, Search & Rescue)	Relief, Search & Rescue
3	Name of Team leader	BAIJU.S
4	Designation in the Parent Organization	APSI
5	Contents of First Message about incident received and Communication mode	Possibility of High Wave and strong wind in kerala and lakshadeep
6	Source Information (Who Sent it?)	State Emergency Operation Centre
7	Time information received	08.09.2016 on 12.00 hrs.
8	Starting time from the Base Station/ Organization	08.09.2016 on 12.30 hrs.
9	Time of arrival at Disaster Site	08.09.2016 on 13.00 hrs.
10	Distance between Base station and Disaster Site (KM)	61 Kms
11	Manpower Resources available and how much manpower carried	6 nos
12	Equipment Carried	Commando Torch

13	Material Brought	Helmet, Rope, Gloves, Google, Glassing Jacket, Swimming short
14	Vehicle Brought	KL 01-AX-7246 Tata Sumo (DVR PC-2821 Sreenath) Mob : 96562 38858
	For use of Incident Command	
	Self use	
15	Difficulties faced	Traffic
16	Support agencies available	Police, Fire force, Health Dept, Revenue Dept, Natives, Agriculture Dept., Amature radio, facility team, Motor Boat, Ambulance, all medias, public, Fire Engine, Police vehicle The following institution are available for disaster relief in this area High School- 3 Nos, U P School- 2 Nos, Auditorium – 1 Nos, Madfassa- 2 Nos, Masjid- 2 Nos One dispensary with 15 beds within 2 km radius One Govt.Hospital with 15 beds within 4 km radius. One A.K.G. Hospital with 9 beds within 6 km radius. One private Hospital with 30 within 3 km radius. Tahasildar is supervise the Tsunami Mock Drill
17	What was your contribution in the Mock Drill	Deployed 5 SDRF Personnel and one officer from RRRF this team interacted with District Authorities and other Departmental officials, Natives, Public for the smooth evacuation of the person, Materials, Vehicles etc. of the proposal Tsunami Mock Drill area. Expected action has been taken to flow the information/ action taken reported to the control room of RRRF SDRF HQ Pandikkad
18	Learning from Mock Drill	How to Deploy a-team to disaster effected area and to deliver to rescue efforts.
19	Suggestions for improvement	
20	Any other information , you would like to convey	As impiled by SEOC


 S. B. B. S.
 Party Commander,
 Tsunami Mock drill
 Kozhikkode Dist.
 September 2016
 S/ RRRF

FEEDBACK OF TSUNAMI MOCK DRILL AT Puthiyangadi, Kozhikkode 08.09.2016

SL No	Particulars to be furnished	Remarks
1	Name of the organization	RRRF HQ, Pandikkad, Malappuram.
2	Type support function (E.g.: Medical, Relief, Search & Rescue)	Search, Rescue & Damage assessment
3	Name of Team Leader	BAIJU.S
4	Designation in the Parent Organization	APSI
5	Contents of First Message about incident received and communication mode	Possibility of High Wave and strong wind in kerala and lakshadeep
6	Source of information (who sent it)	State Emergency Operation Centre
7	Time information received	08.09.2016 on 12.00 hrs.
8	Starting time from the Base Station/ Organization	08.09.2016 on 12.30 hrs.
9	Time of arrival at Disaster site	08.09.2016 on 13.00 hrs.
10	Distance between Base station and Disaster site (km)	61 kms
11	Manpower Resources available and how much manpower carried	6 nos
12	Equipment carried	Stretcher
13	Material Bought	Helmet, Rope, Gloves, Goggles, Glassing Jacket, Swimming short

14	Vehicle Brought		KL 01-AX-7246 Tata Sumo (DVR PC-2821 Sreenath) Mob : 96562 38858
		For use of Incident Command	
		Self use	

15	Difficulties faced	Traffic
16	Support agencies available	NDRF, Police, Fire Force, Coastal Guard, Voluntary Organization and Medias
17	What was your contribution in the Mock Drill	Search and Rescue Operation
18	Learning from Mock Drill	Time Management, Communication, search operation, information's, Debriefing
19	Suggestions for improvement	Lack of availability of Equipment's, placards & site signals
20	Any other information , you would like to convey	Accurate direction and incident site

[Handwritten signature]
[Handwritten signature]

TO : SRI AJITH KUMAR AC RRRF TVM WING CAMP AT SAP TVM NODEL OFFICER &
REPORTING OFFICER TSUNAMI MOCK DRILL FOR SDRF KERALA

INFO : CMT RRRF PANDIKKAD , DC RRRF PANDIKKAD, AC HQ RRRF PANDIKKAD

FROM : PARTY COMMANDER TSUNAMI MOCK DRILL KASARGODE 2016

C.NO. 125/RRRF KNR/2016 DTD 08/09/2016

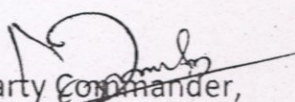
No. A 2-14775/2016/RRRF DTD : 06.09.2016

The consolidated report of Tsunami Mock Drill September 2016
conducted at Nellikunnu light house to cherengai kadappan Beach,
Kasaragode, Kasaragode District.

District is submitted herewith for favor of kind information and necessary action.

SL No	Particulars to be furnished	Remarks
1	Name of the organization	RRRF KNR WING
2	Type of Support Function (E.g.: Medical, Search & Rescue)	RESCUE
3	Name of Team leader	APSI . Sri . MURALEEDHARAN
4	Designation in the Parent Organization	RRRF PANDIKKAD MALAPPURAM
5	Contents of First Message about incident received and Communication mode	TSUNAMI MESSAGE FROM INDIAN TSUNAMI CENTRE
6	Source Information (Who Sent it?)	Coastal CI, Coastal PS, Kasaragode
7	Time information received	12.40
8	Starting time from the Base Station/ Organization	12.40
9	Time of arrival at Disaster Site	12.50
10	Distance between Base station and Disaster Site (KM)	5 km
11	Manpower Resources available and how much manpower carried	Team leader with 5 men
12	Equipment Carried	SDRF Articles

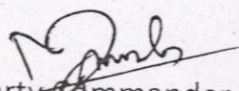
13	Material Brought		RESCUE Items
14	Vehicle Brought		TATA SUMO KL 01 AG 5534 with DUR PC 2825
		For use of Incident Command	
		Self use	
15	Difficulties faced		Nil
16	Support agencies available		Kerala state Disaster mangement Authority, Revenue, Fire force KSEB, Truma care unit, Life guard, medical team, Club, Kasaragod rescue team, Panchayat ward members, MLA - Kasaragode
17	What was your contribution in the Mock Drill		Rescue the people (6 people).
18	Learning from Mock Drill		It is a great experience
19	Suggestions for improvement		Nil
20	Any other information, you would like to convey		Nil


 Party Commander,
 Tsunami Mock drill
Kasaragode.
 September 2016

17/51

SL No	Particulars to be furnished	Remarks
1	Name of the organization	RRRF KNR WING
2	Type support function (E.g.: Medical, Relief, Search & Rescue)	Rescue
3	Name of Team Leader	APSI. Sri. Muralidharan. K.
4	Designation in the Parent Organization	RRRF Pandikkad, Malappuram
5	Contents of First Message about incident received and communication mode	Tsunami message from Indian Tsunami Centre
6	Source of information (who sent it)	Coastal CI, Coastal PS, Kasaragode
7	Time information received	12.40
8	Starting time from the Base Station/ Organization	12.40
9	Time of arrival at Disaster site	12.50
10	Distance between Base station and Disaster site (km)	5 km
11	Manpower Resources available and how much manpower carried	Team leader with 5 men
12	Equipment carried	SDRF Articles
13	Material Bought	Rescue Items

14	Vehicle Brought		TATA SUMO KL 01 AG 5534 with DUR PC 2825
		For use of Incident Command	
		Self use	
15	Difficulties faced		Nil
16	Support agencies available		MHA - Kasaragode, Kerala state Disaster management Authority, Revenue, Fire force, KSEB, Troma care unit, life guard, medical team, club, Kasaragode rescue team, Panchayath ward member,
17	What was your contribution in the Mock Drill		Rescue the people (6 people).
18	Learning from Mock Drill		It is a great experience
19	Suggestions for improvement		Nil
20	Any other information, you would like to convey		Nil


Party Commander,

Tsunami Mock drill

Kasaragode

D.S.

September 2016

TH/ 1645

No. A 2-14775/2016/RRRF DTD : 06.09.2016

The consolidated report of Tsunami Mock Drill September 2016 conducted at SANGHUMUKHAM Beach, Trivandrum, Trivandrum District is submitted herewith for favor of kind information and necessary action.

SL No	Particulars to be furnished	Remarks
1	Name of the organization	RRRF TVPM KING
2	Type of Support Function (E.g.: Medical, Search & Rescue)	Rescue
3	Name of Team leader	API - HAKKIM.S
4	Designation in the Parent Organization	RRRF PANDIKKADU MALAPPURAM
5	Contents of First Message about incident received and Communication mode	14.30 Hrs Received from collectorate Control Room by phone call
6	Source Information (Who Sent it?)	Dpt: Collector, Tsunami, Mock drill controller TVPM
7	Time information received	14.30
8	Starting time from the Base Station/ Organization	14.30
9	Time of arrival at Disaster Site	15 Mins 14.45 Hrs
10	Distance between Base station and Disaster Site (KM)	14 KM
11	Manpower Resources available and how much manpower carried	Team leader with 5 men
12	Equipment Carried	SPRF Angles
13	Material Brought	Rescue Items
14	Vehicle Brought	JEEP KL-01- AD 5195
	For use of	

	Incident Command	Incident
	Self use	
15	Difficulties faced	Traffic
16	Support agencies available	Kerala state Disaster Management Agency, Revenue Department, Fire Force, Tormo came unit, Life Guard, Medical team, Coastal Police, Media Airforce etc.
17	What was your contribution in the Mock Drill	Request the people, protected valuable properties, provided shelter
18	Learning from Mock Drill	It is a great Experience and boosted the confidence for conducting rescue operations
19	Suggestions for improvement	Required more advertisement & awareness.
20	Any other information, you would like to convey	Nil

Q. Haridharan
Shilpa

Party Commander,
 Tsunami Mock drill
Tairandram Dist.
 September 2016

FEEDBACK OF TSUNAMI MOCK DRILL AT *Trivandrum District* 08.09.2016

SL No	Particulars to be furnished	Remarks
1	Name of the organization	RRRF TUM WING
2	Type support function (E.g.: Medical, Relief, Search & Rescue)	Rescue
3	Name of Team Leader	API HAKKIM.S
4	Designation in the Parent Organization	RRRF PANDIKADU MALADURAM
5	Contents of First Message about incident received and communication mode	14.30 hrs, Received from Collectorate Control Room, By Phone call OKAY
6	Source of information (who sent it)	DPT, Collector, Tsunami, Mock drill Controller, TRIVANDRUM
7	Time information received	14.30
8	Starting time from the Base Station/ Organization	14.30
9	Time of arrival at Disaster site	15. Mints. 14.45 hrs.
10	Distance between Base station and Disaster site (km)	14 km
11	Manpower Resources available and how much manpower carried	Team leader with 5 men.
12	Equipment carried	SDRF articles.
13	Material Bought	Rescue Items.



SEOC GoK <seoc.gok@gmail.com>

Report of mock drill regarding Tsunami alert at Kasaragod - reg

1 message

DMO(Health) Kasaragod <dmohksd@gmail.com>

Thu, Sep 8, 2016 at 3:55 PM

To: seoc.gok@gmail.com, Ncd Kasargod <ncdksd@gmail.com>

Report of Mock Drill conducted regarding Tsunami alert at Kasaragod: -

Tsunami alert received at 12.10 pm. Dy.DMOH immediately left to DDMA Cell and reported at 12.45 pm. Instructions issued to Superintendent, GH Kasaragod to depute Medical Team with sufficient emergency medicines and Ambulance to Cherangai Kadappuram. Medical Team left from Hospital at 12.15 PM and reached at the site at 12.25 pm. They examined 7 patients [6 adults and 1 child]. After that they visited shelter home and gave necessary medical aid.

25% of beds at GH Kasaragod are arranged for emergency purpose. Also Triage area was arranged in Casualty at GH Kasaragod.

sd/-
DMOH, Kasaragod.



SEOC GoK <seoc.gok@gmail.com>

Tsunami mock drill medical team report -reg

1 message

District Medical Office Kozhikode <dmohkkd@yahoo.co.in>

Thu, Sep 8, 2016 at 3:54 PM

Reply-To: District Medical Office Kozhikode <dmohkkd@yahoo.co.in>

To: DM CELL KOZHIKODE <dmccllkozhikode@gmail.com>, SEOC GoK <seoc.gok@gmail.com>

Medical team send from

1 team from Government General Hospital Kozhikode and 2 team from MIMS Hospital Kozhikode

25 % of bed left vacant at Malabar Hospital, Co-operative Hospital and Government General Hospital Kozhikode.

Medical aid given around 33 patient. 3 patients admitted at Government General Hospital Kozhikode, 3 at Co-operative Hospital kozhikode and 1 at Malabar Hospital

Medical team co-ordinated by Dr. Sarala Nair, RCH Officer, Additional DMO Dr. Ravikumar and Dr. Bijoy, District Programme Manager

District Medical Officer (Health) Kozhikode

Tsunami Mock Drill Report

IDSP

Tsunami mock drill intimation from District collector was received on 06-09-16. On 07-09-2016 an urgent meeting with superintended and nursing with superintended at GH Trivanrum and was held and received the status of RRT in that institution. Necessary instructions were given to RRT team members. On 08-09-2016 received information from Director of Health Services regarding mock drill. At 12.5 pm 08-09-2016 a call was received from District Disaster management Cell to attend an emergency meeting at District Collectorate. Addl DMO deputed by DMO reached District Collectorate at 12.25 pm and met deputy Collector. At 12.28 pm a mail was received informing Tsunami disaster that may happen at 4 pm along Thiruvananthapuram Coast. At 12.45 pm information was given to RMO GH Trivandrum to be get ready with RRT team and set up emergency ward. At 12.47 instruction given to TA GR II for deputing 5 JHI to Al saints College Junction. At 1.45 pm call was received from District Collectorate to proceed to Sanghumugham Beach. Instruction was carried to RMO at 1.47 pm and team departed from GH 1.50 pm. Team arrived at Sanghumugham beach at 2 pm and reported RDO. Triage Space was identified at Tsunami park, Sanghumugham beach. Team arrived at triage site by 2.10 pm and triage setup was completed by 2.17 pm. First patient was brought by 2.36 pm. Total 3 casualties were brought to triage, two in red and one in yellow category. Kanakaraj 50yrs of red category was received and referred to GH Trivandrum by 3 pm. Another Casualty Mr Kanchan 55 yrs Rajeev were to MCH Trivandrum. One Surgeon, three Staff Nurse, two Nursing Assistant, two attendees, three JHIs and three drivers were the manpower deployed for disaster management.

Simultaneously an evacuation camp was set up at St Rocks Convent School Convent School Tope, Valiyathura. 93 males 66 females & 5 children were the inmates at the relief camp. 2 JHIs ascertain healthy environment. There were safe drinking water facility sufficient sanitary facilities and proper shelter. None of them were suffering from any contagious diseases.

At 5.45 pm RDO declared that Tsunami has been withdrawn. The camp was closed on 6pm.

- 1.35 - എസ്.ഇ.ഒ.സി. ഫോൺ നമ്പർ സ്ഥിരീകരിക്കാൻ വിളിച്ചു
- 1.36- പോലീസ് കൺട്രോൾ റൂമിൽ സന്ദേശം നൽകി. സ്ഥലത്തേയ്ക്ക് ഉടൻ പോകുന്നു.
- 1.39-സെന്റ് റോച്ചസ് സ്കൂളിൽ സജ്ജീകരണം പൂർണ്ണമായെന്ന് ആർ.ഡി.ഒ. അറിയിച്ചു. 2.00 മണിയോടുകൂടി മാറ്റിപാർപ്പിക്കൽ പൂർത്തിയാകും.
- 1.41- ഫയർ ഫോഴ്സ് സ്ഥലത്തെത്തി.
- 1.46- ഡി.എം.ഒ. ആമ്പുലൻസ് ഉൾപ്പെടെ മെഡിക്കൽ ടീം സ്ഥലത്തേയ്ക്ക് പോകുന്നു.
- 1.46- മാറ്റി പാർപ്പിച്ചവരുടെ എണ്ണം സ്ത്രീ, പുരുഷൻ എത്രയാണെന്ന് താലൂക്കിനോട് ആരാഞ്ഞു.
- 1.47- പേട്ട വില്ലേജ് ഓഫീസർ ആനൗൺസ്മെന്റ് നടത്തി ആൾക്കാരെ മാറ്റി പാർപ്പിച്ചുകൊണ്ടിരിക്കുന്നു.
- 1.50 - താലൂക്ക് കൺട്രോൾ റൂമിലെ നിലവിലെ സ്ഥിതി ആരാഞ്ഞു.
- 1.57- ജില്ലാ മെഡിക്കൽ ഓഫീസർ (ആരോഗ്യം) ആശുപത്രികളുടെ 25 % ബെഡ്ഡുകൾ സുനാമി ബാധിതർക്കായി മാറ്റി വച്ചതായി അറിയിച്ചു.

ഒപ്പ്/-

ഡെപ്യൂട്ടി കളക്ടർ (ഡി.എം)

2.00 - മെഡിക്കൽ ടീം സംഭവ സ്ഥലത്ത് എത്തി.

2.31- ശംഖുമുഖത്തു നിന്ന് 75 % ആളുകളെ ഒഴിപ്പിച്ചതായി അറിയിച്ചു.

3.00 മണിയോടെ പൂർണ്ണമായും ആളുകളെ ഒഴിപ്പിക്കുമെന്ന് ആർ.ഡി.ഒ അറിയിച്ചു.

2.45 - ജനങ്ങളെ ഏകദേശം പൂർണ്ണമായും ഒഴിപ്പിച്ചതായും, ചില ബംഗാളി തൊഴിലാളികളെ ഒഴിപ്പിക്കുന്നതിന് കാലതാമസം നേരിട്ടതായും, മാറ്റിപാർപ്പിച്ചവരിൽ പുരുഷന്മാർ 93, സ്ത്രീകൾ 66, കുട്ടികൾ 3 അങ്ങനെ ആകെ 162 പേർ ഉള്ളതായും ഇതിനായി 2 വാഹനങ്ങൾ 4 പ്രാവശ്യം ഉപയോഗിച്ചതായും, മറ്റുള്ളവർ സ്വമേധയാ സുരക്ഷിത സ്ഥാനങ്ങളിൽ മാറി പോയതായും ആർ.ഡി.ഒ. അറിയിച്ചു.

ഒപ്പ്/-

ഡെപ്യൂട്ടി കളക്ടർ (ഡി.എം)



SEOC GoK <seoc.gok@gmail.com>

Winching and recce by Airforce ALH

1 message

Vikas Shrotriya <vikasshrotriya@gmail.com>
To: SEOC | DMD | Kerala <seoc.gok@gmail.com>

Thu, Sep 8, 2016 at 4:44 PM

Thiruvananthapuram: The airforce carried out winching operations at the GPS position provided by SEOC with the help of Advanced light helicopter at 1545 hrs .

The damage at Pettah village was assessed by carrying out recce after the wave had hit. SEOC was informed about the same.

Airforce is ready for carrying out drop of food materials as demanded by SEOC after assessing the damage status.

Regards

Wing Commander Vikas Shrotriya

Report of the independent observer at SDM Control Room

- | | | |
|--|---|----------------------------------|
| 1. Emergency Support Function
(e.g. Search & Rescue, Medical) | - | Communication |
| 2. Responsible Officer (Name) | - | Anjana M, AC (DM) |
| 3. Observer (Name) | - | K. Sasikumar |
| 5. Immediate Assessment of the Organization | - | Control Room Set up is very good |
| 6. Response of the Team to Disaster | - | Positive |

Resources Available and their optimum utilization.

- | | | |
|------------------------|---|----------------------------------|
| 1) Land Line Telephone | - | 03 lines (One dedicated for Fax) |
| 2) Fax machine | - | 01 (Working) |
| 3) Computer | - | 02 (One Not working) |
| 4) Laptop | - | 01 (Working) |
| 5) Fax cum Printer | - | 01 (Working) |

Your assessment of the Organization in completion of task

- (a) 75-100 % Success (b) 50-74 % Success ✓
(c) 30-50 % Success (d) Less than 30 % Success

Observers Comments (Frank Opinion, Good practices and weakness/shortcomings noticed). Over Grading

- (a) Excellent (b) Very Good ✓ (c) Good (d) Average (e) Poor

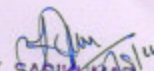
Control room having good ambience. Response of the staff -Very Positive

- Good Practices –
- 1) Overall supervision by Head of the Department.
 - 2) Monitoring the activities of control room by Responsible officer is excellent
 - 3) Harmony of staff
 - 4) Information passing to District.

- Weakness –
- 1) using of communication equipment of staff except computer operation
 - 2) Lack of training
 - 3) VHF Equipment-un utilised during the operation
 - 4) Overall Spacing of control room
 - 5) No response from District Authority

- Short Coming -
- 1) No alternate Fax, Computer and Printer available.
 - 2) Lag in communicating the availability of resources from the field level to control room

- Suggestion -
- 1) Proper training should give to all control room staff and DM section staff on all aspects including handling of Computer, email and other equipment.
 - 2) At a time more than one Staff posted to control room shall have the institutional memory.
 - 3) Staff positioning in the control room should be changed.
 - 4) Control room should be equipped fully adhering to hand book on emergency operations.
 - 5) Hotline communication between district and state control room
 - 6) EPABX communication between district and state and Taluk control room and other offices.
 - 7) Ensure at least one copy of the DDMP and SDMP in the control room


K. SASIKUMAR
Senior Superintendent
Land Revenue Commissionerate
Thiruvananthapuram



GOVERNMENT OF KERALA

Abstract

Disaster Management Department – Tsumani Mock Drill Exercise – September 2016 – release of fund – Sanction accorded - Orders issued.

DISASTER MANAGEMENT (REVENUE - K) DEPARTMENT

G.O.(Rt)No. **3483/2016/DMD**

Dated, Thiruvananthapuram, **27th August, 2016**

- Read:- 1. Letter No.INCOIS/DIR/28/2016 dated 15/08/2016 from Director, Indian National Centre for Ocean Information Services (INCOIS).
2. Letter No.SEOC/GEN/204/2016 dated 25/08/2016 from Member Secretary, Kerala State Disaster Management Authority (KSDMA).

ORDER

As per the letter read as 1st paper above the Director, Indian National Centre for Ocean Information Services (INCOIS), Hyderabad has informed that the next Tsumani mock drill being co-ordinated by IOC/UNESCO is sheduled to be held in September 07- 08, 2016. As per the letter read as 2nd paper above Member Secretary, Kerala State Disaster Management Authority (KSDMA) and Head, State Emergency Operations Centre (SEOC) requested to release an amount of Rs.25,000/- (Rupees Twenty Five Thousand only) to Head, SEOC via District Collector, Thiruvananthapuram and to release an amount of Rs.50,000/- (Rupees Fifty Thousand only) each to Districts of Kasargode, Alappuzha and Thiruvananthapuram from SDRF- 5% Capacity Building allocation for the conduct of Tsunami mock drill exercise.

2) Government have examined the matter in detail and are pleased to accord sanction to release Rs. 25,000/- (Rupees Twenty Five Thousand only) to District Collector, Thiruvananthapuram. The District Collector, Thiruvananthapuram will draw and transfer credit the said amount to the account of SEOC at SBI, Maruthamkuzhy Branch, Account No.33031314643 and also to sanction an amount of Rs. 50,000/- (Rupees Fifty Thousand only) each to District ^{Collectors} of Kasargode, Alappuzha and Thiruvananthapuram for the conduct of Tsunami mock drill exercise from State Disaster Response Fund (SDRF) - 5% Capacity Building allocation.(Total 3*50,000 = 1,50,000/-)

3) The fund shall be met from the Head of Account "2245-02-101-94-Flood & Other items" and the fund should be used for which it is allotted within the financial year 2016-17 and Utilisation Certificate should be submitted to Government in time.

(BY ORDER OF THE GOVERNOR)

Anitha B.C.

Under Secretary to Govt.

To,

The District Collectors, Thiruvananthapuram /Alappuzha/ Kasargode.
The Member Secretary, KSDMA, Revenue Complex, Public Office Building,
Thiruvananthapuram

(P.T.O)

The Head (Scientist) SEOC, ILDM, PTP Nagar, Thiruvananthapuram
The Principal Accountant General (Audit) Kerala, Thiruvananthapuram
The Accountant General (A&E) Kerala, Thiruvananthapuram
The District Treasury Officer, Thiruvananthapuram/Alappuzha/ Kasargode
The Sub Treasury, Vellayambalam, Thiruvananthapuram
Stock File/Office Copy.

Copy to:-

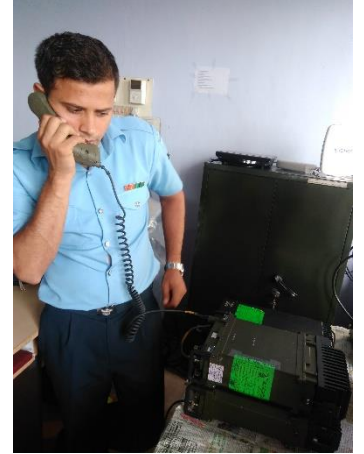
PS to Minister (Revenue & Housing)
PS to Principal Secretary (Revenue & DM)
Web & New Media I& PRD
The Disaster Management (Revenue K4 Seat) Department

Forwarded/By Order.

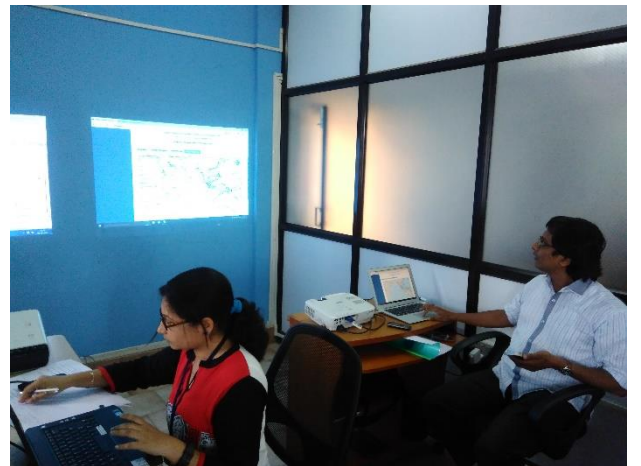
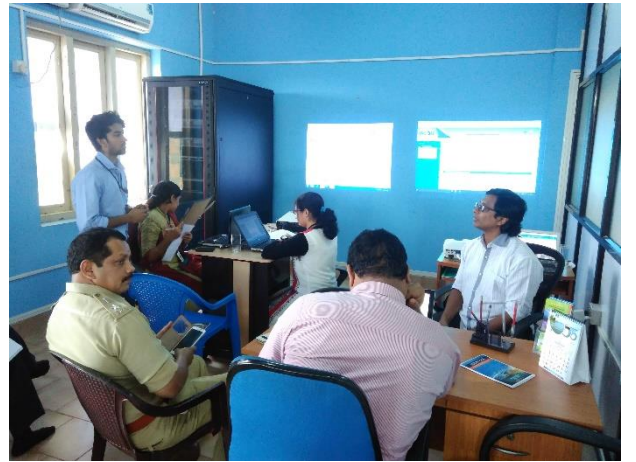


Section Officer





Operations at SEOC monitored by Principal Secretary, Revenue & DM





Dropping of relief materials demonstrated by Air Force at Shangumugham Beach, Thiruvananthapuram; Training was given to Fire & Rescue officials in packaging of relief materials for air dropping by Air Force.