

**TSUNAMI-READY PRA
(PARTICIPATORY RURAL APPRAISAL)
AND EVACUATION PLAN REPORT
VALIYAPARAMBA GRAM PANCHAYAT,
KASARAGOD, KERALA**



**KERALA INSTITUTE OF LOCAL ADMINISTRATION
MULAMKUNNATHUKAVU PO
THRISSUR
KERALA - 680581**



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1. INTRODUCTION

United Nations Educational, Scientific and Cultural Organization (UNESCO), Kerala Institute of Local Administration (KILA), Kerala State Disaster Management Authority (KSDMA) and Indian National Centre for Ocean Information Services (INCOIS) are jointly implementing the Tsunami-ready project to achieve the objectives of making local self government institutions (LSG) resilient to tsunami emergencies, enhancing the capacity of local self-governing bodies in disaster management activities, enabling community-based disaster management and minimizing the loss of life, property, and livelihoods to the maximum extent possible.

Valiyaparamba, a coastal Gram Panchayat in Kasaragod, faces significant tsunami risk due to its location on the Arabian Sea. Its isolation, surrounded by backwaters and rivers, complicates emergency evacuations. With 13 wards and a population reliant on coastal resources, a tsunami could be catastrophic without proper preparation. A tsunami mock drill is crucial. It educates residents on evacuation routes, assembly points, and safety procedures. This drill also tests our existing evacuation plan, reveals weaknesses, and improves coordination between authorities and the community. By practicing real life scenarios, we can ensure a faster, more effective response, ultimately saving lives and protecting our island.

2. ONLINE PRIMARY COORDINATION MEETING

As part of organizing the Tsunami Mock drill, the preliminary Online coordination meeting was conducted by KILA and DDMA Kasaragod on 11 November 2024. The meeting was attended by the District Disaster Management Authority Kasaragod, Hazard Analyst, other representatives, Panchayat representatives, and KILA DCAT representatives. Discussions were held regarding the location, time, Other related meetings, and preparations to be made before organizing the mock drill. KILA DCAT representative Dr. S. Sreekumar provided insights into the different phases of the mock drill. It was decided to hold the district level advance coordination meeting on November 18, 2024, and the preliminary discussions were concluded.

3. DISTRICT LEVEL ADVANCE COORDINATION MEETING

The advance coordination meeting for the Tsunami ready mock drill was conducted on November 18 at 2:30 PM in the Kasaragod District Collectorate conference hall. The meeting was chaired by Additional District Magistrate (ADM), Kasaragod, Mr. Akhil P. The meeting was attended by 18 people representing various stakeholder departments and agencies. The ADM welcomed the gathering and provided an overview of the disaster scenario in Kerala, highlighting the tsunami risk in Kasaragod district and the ongoing preparations for the tsunami mock drill. The meeting then focused on discussing the Participatory Rural Appraisal (PRA) tools needed for mapping as part of the program and identified the key nodal departments that should participate in the drill.



KILA DCAT Pathanamthitta District Coordinator, Neeraj E, suggested including exit routes on the eastern side of Valiyaparamba Panchayat in the mock drill. However, after discussions with the Additional District Magistrate (ADM), DM Coordinator Mr. Ahmed Shafeeque stated that incorporating panchayats on the eastern side would not be feasible at present due to the long distance. Instead, he emphasized that preparing evacuation maps covering these areas would be beneficial in an actual disaster scenario.

Following this, Valiyaparamba Grama Panchayat Hon. President, Shri. Sajeevan Edayilakkad, reflected on the success of the previous year's Tsunami Ready Mock Drill and appreciated the coordination efforts of various departments. Shri. Khader Pandiyala, Chairperson of the Development Standing Committee, assured full cooperation from the Local Self-Government Institution (LSGI) to ensure the smooth execution of the drill.





Deputy Superintendent of Police (DYSP), Shri. Babu Peringath, Assured support from the Police Force, particularly in crowd management and ensuring seamless transportation during the drill. He also assured the provision of additional forces if required. The meeting concluded with final remarks from the ADM.

Important Decisions

- Conduct a tabletop exercise three days prior to the mock drill.
- Schedule the Tsunami Ready Mock Drill after December 20 at Valiyaparamba Grama Panchayat, Ward 10, Panthrandil Beach.

4. PARTICIPATORY RURAL APPRAISAL (PRA) AND EVACUATION MAPPING EXERCISE

A meeting for preparing Evacuaton maps required for the tsunami-ready certification was held on 19th November 2024. As part of this a Preliminary meeting was held at 10:30 AM at Valiyaparamba Gram panchayat with the KILA team, including Dr. Rajkumar R (Disaster Risk Management Expert), Neeraj E (DCAT District Coordinator, Pathanamthitta), Arunima Ganesan (DCAT Block Coordinator, Pathanamthitta), and Ajay Krishnan (Project Staff), visited Valiyaparamba GP for a preliminary meeting with Panchayat President Shri. Sajeevan Edayilekkad.



The discussion covered the Panchayat's past experience with the Tsunami Ready mock drill, the need for public participation, announcements, and distribution of awareness materials. Key topics included interdepartmental coordination for sheltering domestic animals, identifying external shelters, debriefing post-drill, appointing an independent observer, updating the disaster management plan with vulnerable groups, and presenting the revised plan during the tabletop exercise.

An evacuation mapping meeting for the Tsunami Ready certification was held on November 19, 2024, at 11:00 AM in the Valiyaparamba GP Hall, chaired by Vice President Smt. P. Shyamala. The meeting was attended by elected representatives, the Secretary and staff of the GP, and members of the general public. The Panchayat President proposed Ward 10 as the mock drill site and scheduled a joint field visit by the KILA team and LSG representatives.





The KILA team emphasized the importance of mock drills, community-based disaster management, and the role of LSGIs in disaster preparedness. The DRM Expert from KILA provided an overview of the mapping process and the required data. Participants were divided into two groups representing multiple wards, and Shri. Khadar Pandyala, Chairperson of the Development Standing Committee, led the mapping exercise, which concluded at 1:30 PM.

Selected Ward Clusters

- Cluster 1: 2, 3, 4, 5, 6, 7, 8
- Cluster 2: 9, 10, 11, 12, 13, 1

Field visit



The field visit to the proposed mock drill site started around 2.30 pm on the same day. The KILA team visited the site with the President, Shri. Khader Pandyala and ward member Smt. E K Mallika. The visit covered the assembly point in the beach assembly point, parking area for rescue and evacuation vehicles, and the Noorul Islam Madrassa, Beecharakadavu, which was proposed as the temporary camp for providing first-aid to the people evacuated from the assembly point. The field visit was completed at about 3.30 p.m.





Field visit Photos Assembly Point and Shelter Camp

5. PREPARATION OF TSUNAMI EVACUATION MAP

The Valiyaparamba Gram Panchayat is a coastal island in Hosdurg taluk, Kasaragod district, Kerala state, located between 75° 7 '0"E to 75° 13' 30"E longitude and 12° 3 '0"N to 12° 12' 30"N latitude, encompassing an approximate area of 16.14 square kilometres. Valiyaparamba is separated from the mainland by Kavvayi Backwater. Valiyaparamba is fed by four rivers and dotted with numerous little islands. A National Waterway passes through this island. The Panchayat comprises 13 Wards. This area is prone to tsunami-related risks due to its coastal proximity. A detailed evacuation plan has been developed to ensure the safety of residents during emergencies, with a focus on designated assembly points, shelters, evacuation routes, and critical infrastructure.

Assembly points

The assembly points, marked with a star symbol , are located across various wards within the Valiyaparamba Panchayat, ensuring easy access and safety for residents during an evacuation.

Shelter points

The Shelter points, marked with a Triangle symbol . Each shelter point is designed to accommodate residents during emergencies, offering secure locations with access to essential services and facilities. These include

- Beacharakadav madrasa
- GLPS Madakkal
- Buds School Edayilekkad
- ALPS Edayilekkad

Assembly points	Ward	Approx. Area
GLPS Mavilakadappuram	Vellutha poyya	204.052 m ²
GFHSS Padne kadappuram	Padanna kadappuram	3419.561 m ²
EKN Padnekadappuram	Beechara kadappuram	754.312 m ²
KGM Ground	Pattel kadappuram	938.188 m ²
Nageswari Ground	Edayilekkadu	4806.196 m ²
Muhammadia Madrasa	Mavila kadappuram	3053.436 m ²
Pandrandil madrasa	Pandrandil	1065.474 m ²
Bank	Beechara kadappuram	Building
FHC Padna kadappuram	Padanna kadappuram	1027.193 m ²

Table 1: Details of Assembly Points

Sign boards

Sign boards have been strategically placed to assist evacuees in navigating to safe zones and avoiding hazard-prone areas with a triangular flag symbol. These sign board locations include

- Yuvachethana beecharakadav
- EKN Padnekadappuram
- Bank parisaram
- Pulimutt
- Balithara mavila kadappuram
- Mavila kadappuram
- Mavila kadappuram paalam
- Panthrandil AKG beach ground
- FHC valiyaparamba
- GFHSS
- Shooting location
- Subramanyan Kovil
- Pandrandil beach road
- Kavvayi kadavu
- Noorul Islam Madrassa
- GFUPS Udinur kadapuram
- Kaalichan Kavu
- Valiyaparamba-Edayilekkad Bridge
- Valiyaparamba Corniche
- KGB Valiyaparamba
- K K Mill
- Pattelkadapuram Bus stop
- Bank Padnekadapuram
- Pandrandil Beach
- GLPS Mavilakadapuram

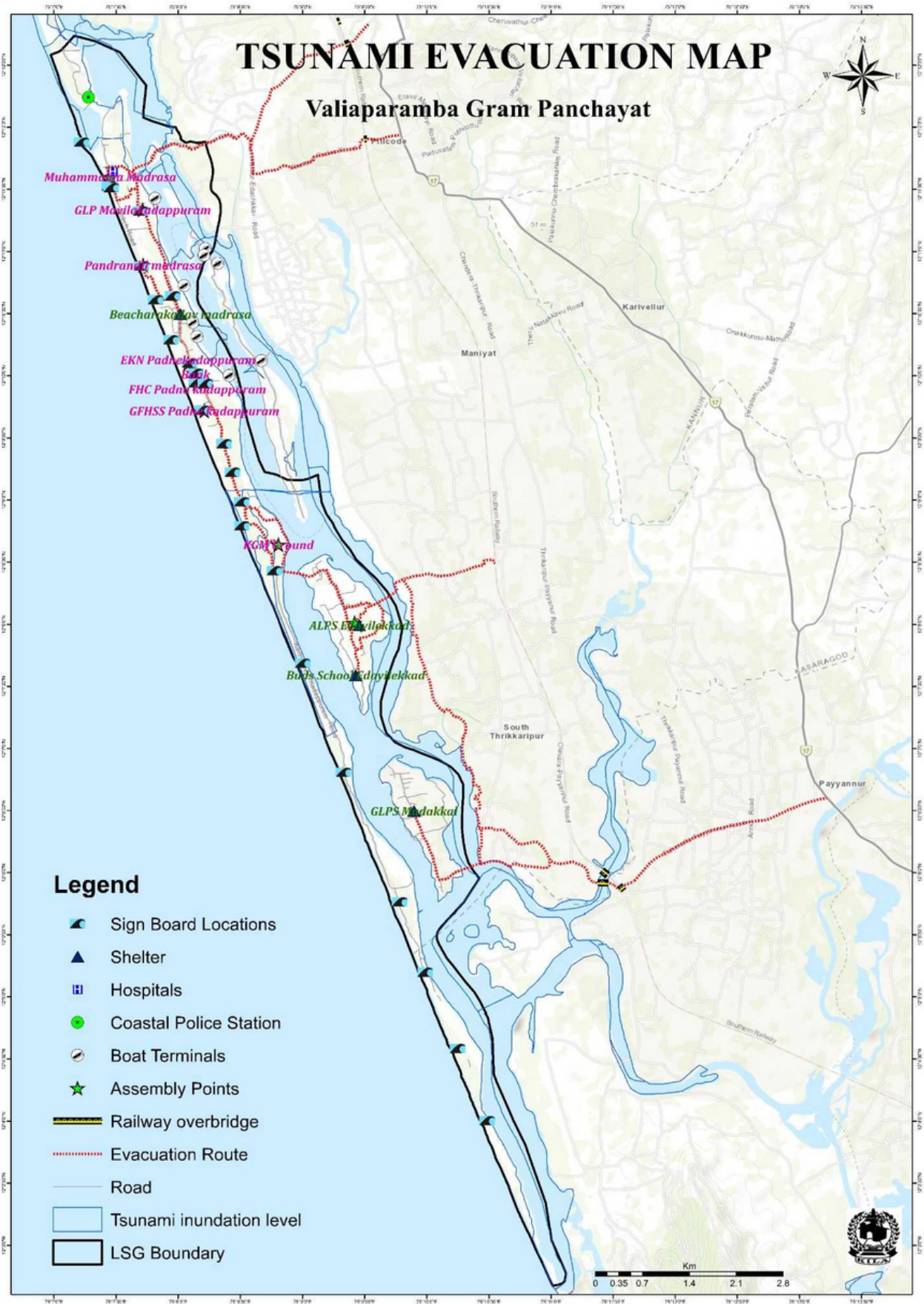


Figure 1: Tsunami Evacuation Map

Hospitals

The major healthcare centers in Valiyaparamba Panchayat include

- Primary Health Centre (Government)
- FHC Padna kadappuram (Government)

Boat terminals

Valiyaparamba Panchayat is an island panchayat where roadways are insufficient for evacuation during emergencies. To address this, boat terminals have also been marked on the evacuation map.

- Mavilakadappuram boat terminal
- Vadakkekad boat terminal
- Panthrandil boat terminal
- Beechara kadappuram boat terminal
- Padanna kadappuram boat terminal
- Thekkekad boat terminal

Coastal Police Station is also marked as a critical point for assistance and coordination during emergencies. The evacuation routes, depicted in red, connect at-risk zones to safe assembly points and shelters, ensuring efficient evacuation.

Community Data Set

Valiyaparamba Gram Panchayat has a total population of 12,790, residing in 3,187 households. Among them, 3,546 individuals are identified as vulnerable. This group includes 653 boys and 693 girls below the age of six, 133 differently-abled men and 116 differently-abled women, 836 men and 1,014 women above 60 years, 81 pregnant women, and 20 destitutes (3 men and 17 women).

Note on the Evacuation Map

The provided map details key locations within the Gram Panchayat (GP), including signage, shelters, hospitals, the coastal police station, boat terminals, assembly points, evacuation routes, bridges, and tsunami inundation zones. A suitable building for sheltering evacuated residents within a safe zone is crucial, ideally in neighboring Local Self-Governments (LSGs) east of Valiyaparamba GP. For the current mock drill, a temporary first-aid camp is established at Noorul Islam Madrassa, Beecharakadavu, to serve those evacuated from the assembly point. Recognizing the lack of suitable shelter buildings within the GP, evacuation routes extending to NH66 have been incorporated. Consequently, railway overpasses along the route to NH66 are also marked on the map.

Tsunamis can travel up rivers and streams connected to the ocean and wrap around headlands, islands, and sand spits. Due to their long wavelength, tsunamis carry significant momentum, often resulting in more extensive inland flooding compared to regular waves. This makes them highly destructive, with large tsunamis capable of inundating low-lying coastal areas over a mile inland. Considering these factors and the geography of the panchayat, it is unsafe to designate an assembly point or shelter within this panchayat. Therefore, the evacuation route has been extended to the nearby panchayat and connected to NH 66 for safer access.

6. TABLE TOP EXERCISE

A tabletop exercise was held on December 11, 2024, at Valiyaparamba Gram Panchayat ahead of the mock drill. The exercise was attended by DDMA representatives, Panchayat representatives, and officials from various departments involved in the mock drill. The session commenced at 10:30 AM, with the Panchayat President delivering the inaugural address. Following this, Kasaragod District DM Plan Coordinator, Ahmed Shafeeq, gave a presentation on the mock drill.

Additionally, each department official discussed their preparedness for the drill, including the number of teams available both on-site and off-site. The discussion also covered details about the selected site, the demographics of the local population, and the geographical limitations of the area.

Officials from various departments participated in the exercise, including the Hosdurg Tahsildar, Coastal Police CI, Chandra Police SHO, Trikaripur Fire and Rescue Officer, Kanhangad Fire and Rescue Officer, Fisheries Deputy Director Representative, Ward Members, Vice President of Valiyaparamba Panchayat, Panchayat Secretary, Village Officer, MVD official, and the Medical Officer of Valiyaparamba.



7. MOCKDRILL

A tsunami preparedness mock drill was conducted at Valiyaparamba Gram Panchayat, on 12 December 2024 with the Nurul Islam Madrasa in the 10th ward designated as the assembly point. The drill was led by various departments including the Police, Fire Force, Coastal Police, Revenue, Motor Vehicle Team, Health Department, Rescue Team, Aapthamitra Volunteers, DDMA Kasaragod, Panchayat Representatives, and KILA Representatives. The drill was supervised by Sub Collector Pratik Jain, ADM P. Akhil, and Panchayat President V. V Sajeevan.



Upon receiving a tsunami warning at 3 PM, a mass evacuation of residents from the coastal areas and homes in Valiyaparamba was initiated. Over 100 people were transported to a camp at Beecharakkadavu Madrasa. This mock drill served as a model for how rescue operations should be conducted in the event of a disaster. The Health Department provided necessary medical check-ups to the evacuated residents at the camp. The mock drill concluded with a debriefing session at the camp.

8. DEBRIEING

A debriefing session was organized at the shelter camp, bringing together all participating departments to discuss the experiences and lessons learned from the mock drill. The Valiyaparamba Panchayat President, Kanhangad Sub Collector, Valiyaparamba Village Officer, and Hosdurg Tehsildar addressed the gathering.





Every effort was made to ensure that the shortcomings identified in previous tsunami mock drills were avoided in this exercise. As a result, the issues noted in earlier drills were not present this time. The Sub Collector of Kanhangad, who was selected as an independent observer, expressed gratitude for the excellent service and positive approach of the Thrikkaripur Fire Station, Valiyaparamba Panchayat members, Valiyaparamba Medical Officer, and the Police Department. Additionally, the service of the Coastal Police was highlighted during the debriefing. Overall, there were no criticisms, and each department effectively fulfilled its role

9. REFERENCES

- Intergovernmental Oceanographic Commission. (2020). Standard Guidelines for the Tsunami Ready Recognition Programme (Manuals and Guides No. 74). UNESCO.
- Intergovernmental Oceanographic Commission. (2020). Preparing for community tsunami evacuations: From inundation to evacuation maps, response plans, and exercises (Manuals and Guides No. 82). UNESCO.

Annexure 1 : Timeline and Actions

Timeline of actions on the drill day

1. Meeting point Noorul Islam Madrasa in ward number 10th of Valiyaparamba GP.
2. Drill will begin with evacuation from the beach nearby – all people will be moved by foot to Beach Road Junction from where vehicles will take them to the relief camp.
3. Police – traffic arrangement – (kindly mention from and to needed)
 1. Super beache where mock drill is sarterd
 2. Beachroad Smashanam Junction
 3. Beach road junction, The gathering place of the people those who evacuated
 4. SC Colony road Junction of main road (Westside)
 5. Salafi Masjid road Junction of main road (East side)
 6. Infront of Pandrandil Masjid
 7. Pandrandil Bhajana Madam road junction of main road near Kumaran Peedika (North side of beech road junction
 8. Juma ath building road Junction of main road (South side of Beach road Junction)
 9. Noorul Islam Madrasa (Relief Centre Centre)
 10. Boat Jetty- Ration shop road Junction Beecharakadavu
 11. Near Yuva Chethana Office Beecharakadavu
4. Coastal Police – to patrol along the coast in the sea – displaying action to keep the boats away from the coast

In the Sea near super beach 2 km away from the Pulimoot to southern side



Jay Kumar
06/12/24

JAYAKUMAR K U
PEN 154170
SECRETARY
VALIYAPARAMBA GRAMA PANCHAYATH
VALIYAPARAMBA RD.

Annexure 2 : Mockdrill News Reports



ജില്ലാ ദുരന്തനിവാരണ അതോറിറ്റി വലിയപറമ്പിൽ സംഘടിപ്പിച്ച സൂനാമി മോക്ക് ഡ്രിൽ

സുനാമി വന്നു, അമ്പരന്ന് ജനം!

തൃക്കരിപ്പൂർ: രക്ഷാപ്രവർത്തനത്തിന്റെ നേർക്കാഴ്ചകൾ നാട്ടുകാരിൽ അമ്പരപ്പുളവാക്കി. ജില്ലാ ദുരന്തനിവാരണ അതോറിറ്റിയും വലിയപറമ്പ ഗ്രാമപഞ്ചായത്തും ഇൻകോയ്സും സംയുക്തമായി വലിയപറമ്പ പഞ്ചായത്തിലെ പത്താം വാർഡിലാണ് സൂനാമി മോക്ഡ്രിൽ ഒരുകിയത്.

മുനനിയിപ്പു വന്നതോടെ ആളുകളെ കൂട്ടത്തോടെ കടലോരത്തു നിന്നും വീടുകളിൽനിന്നും ഒഴിപ്പിച്ചതും കൗടുകാരിൽ പുതിയൊരു സഭയായി. കടലോരത്തെ വീടുകളിൽനിന്നു നൂറിലധികം ആളുകളായാണ് ഒഴിപ്പിച്ചത്. ബിഗ്ലാക്കടവ് മർഗ്ഗമായി ക്യാമ്പിലാണ് എത്തിച്ചത്. പൊലീസ്, ഫയർഫോഴ്സ്, കോസ്റ്റൽ പൊലീസ്, റവന്യൂ, മോട്ടോർ വെഹിക്കിൾ ടിം, ഫിഷറീസ്, ആരോഗ്യവകുപ്പു്, റെസ്റ്റുസ്ക്വേഡ്, അപത്ത് മിത്ര വെള്ളിയിയേഴ്സ്, പഞ്ചായത്ത് ദുരന്തനിവാരണ സേന എന്നിവർ മോട്ടോറവർത്തനങ്ങൾക്ക് നേതൃത്വം നൽകി.

സബ് കലക്ടർ പ്രതികർഷയ്ക്ക്, എ.ഡി.എം പി. അരിയ്ക്ക്, ഉന്നത ഉദ്യോഗസ്ഥർ എന്നിവർ ക്യാമ്പിലെത്തി. പഞ്ചായത്ത് പ്രസിഡന്റ് വി.വി. ദളവേരി, ഭരണസമിതി അംഗങ്ങൾ എന്നിവർ നേതൃത്വം നൽകി. ഒരു ദിവസമുണ്ടായതിൽ ഏതാനുനഗ്നരായി, എട്ടുനൂറോളം കക്ഷാപ്രവർത്തനം നടത്താം എന്നതിന്റെ നേർക്കാഴ്ചയായിരുന്നു മോക്ഷപ്രതി.

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Source : <https://epaper.madhyamam.com>



**വലിയപറമ്പയിൽ സുനാമി മോക്ഡ്രിൽ
കൗതുകമായി**

[illegible]

ബിംഗ്സ്, പഞ്ചായത്ത് രൂപ
ത നിവാരണ സേന എന്നിവർ
ആളുകളെ ഒഴിപ്പിക്കുന്നതിനും
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നേതൃത്വം നൽകി.

ആയിരത്തോളം ആളുകൾ
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 ക്ക് വീതി.

വഴിയപാവയിൽ നടന്ന സ്മരണാങ്കി ജോഷിയിൽ

വർത്തകരുടെ പ്രവർത്തനം നാട്ടുകാർക്ക് ഏതിനെ അനുഭവമായി. ജനങ്ങളെ ഒഴിപ്പിച്ച് ബി.ഡി.യുടെയെങ്കിലും മറ്റ് മറ്റൊരു കൂട്ടത്തിലാണ് ഏത്തിച്ചത്.

**വലിയപറമ്പിൽ 'സുനാമി';
ആളുകളെ ഒഴിപ്പിച്ചു**



വേദപ്രസംഗത്തിൽ നല്ലതായി കാണപ്പെടുന്നതിനുള്ള ആവശ്യമായി അക്കാലത്തു പ്രസിദ്ധമായ

កងទ័ពស្រី

സുനാമി മുന്നറിയിപ്പ് അനു
ബന്ധിച്ച് വനംതോടെ ആളു
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മുദ്രസമീപം ക്യാമ്പിൽ
എത്തിച്ചു. പൊലീസ്, അന്
രക്ഷാസേന, കോസ്റ്റൽ
പൊലീസ്, വനാല, മോട്ടോർ
വെഹിക്കിൾ ടീം, ഫിഷറീസ്,

പി. അധികമിത്രം വളത്തിന്, പക്ഷാത്കരം മുതൽ നിവാരണസേന എന്നിവയുടെ നേതൃത്വത്തിലായിരുന്നു രക്ഷാപ്രവർത്തനം.

അടിയന്തിരവ്യവസ്ഥയിൽ രക്ഷാപ്രവർത്തനം നടത്താൻ വമിഷപറമ്പിൽ നടത്തിയ സൂനാമി മുന്നോട്ട് അതോടൊപ്പമുള്ള ബോധവൽക്കരണ ഇൻ. ജോയ് മുതൽ നിവാരണ സേന, വമിഷപ

യ്ക്കിന്റെയും നേതൃത്വത്തിലാണ് സുനാമി മോക്ഡിൽ ഒരുക്കിയത്. സബ് കലക്ടർ പ്രതിഷ്ഠ ചെയ്ത്, എഡിഎം പി അമിത്, പഞ്ചായത്ത് പ്രസിഡന്റ് വി വി സജീവൻ എന്നിവർ നേതൃത്വം നൽകി. നൂറനൂറു നായാടൻ കക്ഷപ്രവർത്തനത്തിനും ജാഗ്രത നിർദ്ദേശം അനുസരിക്കുന്നതിനും മാണ് മോക്ഡിൽ.

രക്ഷാ പ്രവർത്തനത്തിന്റെ വേറിട്ട കാഴ്ചയായി ഓക്സ്ഫോർഡ്

[illegible]

വലിയ പത്താം വാർഷികം നടന്ന സുനാമി ഓക്സഫിഡിൽ

തോടെ കടലോരത്തു നിന്നും വീടുകളിൽ നിന്നും നൂറിലധികം ആളുകളെയാണ് ഒഴിപ്പിച്ച് ബീച്ചറേക്കടവ് മന്ദ്രസതി ലെക്ചററിൽ എത്തിച്ചത്. പോലീസ് ഫയർഫോഴ്സ്, കോസ്റ്റൽ

പോലീസ്, റവന്യൂ, അട്രോൾ ഓഫീസുകൾ കീഴെ, പിഷ്ചറിസ്, ആരോഗ്യവകുപ്പ്, റെസിക്യൂ കീഴെ, അപ്പർ മിഡ്ലാ വളണ്ടിയറേഷൻ, പഞ്ചായത്ത് രാജ് ദുരന്ത നിവാരണ സേന എന്നിവർ അതുകൂടെ ഒഴിപിടിക്കുന്ന

[illegible]

Annexure 3 : Photograph Of the Drill

