

## India - National Working Group on Tsunami Evacuation Planning



First Regional Workshop On Tsunami Evacuation Planning (TEP)

UNESCAP TTF-29 Project: "Strengthening Tsunami Warning in the North-West Indian Ocean through Regional Cooperation"
August 24, 2022

# **National Working Group on Tsunami Evacuation Planning**

S. No	Members	Email ID
1.	Mr. R.S. Mahendra	mahendra@incois.gov.in
	Scientist	
	Indian National Centre for Ocean Information Services (INCOIS), Hyderabad	
2.	Col. Nadeem Arshad	nadeem.tarana@gmail.com
	Consultant (Operations)	
	National Disaster Management Authority (NDMA), New Delhi	
3.	Dr. Gnana Das, IAS	gyana.das@gmail.com
	Executive Director	
	Odisha State Disaster Management Authority (OSDMA), Bhubaneswar, Odisha	
4.	Dr. Alfred Johny	alfredjohny07@gmail.com
	Hazard Analyst	
	Kerala State Disaster Management Authority (KSDMA), Thiruvananthapuram, Kerala	
5.	Dr. Maneesha V Ramesh	maneesha@amrita.edu
	Provost	
	Amrita Vishwa Vidyapeetham, Kollam, Kerala, India	
6.	Dr. Sudha Arlikatti	sudhaarlikatti@am.amrita.edu
	Professor,	
	Amrita Vishwa Vidyapeetham, Kollam, Kerala	
7.	Mr. Deen Mohammed	dmfaiz2007@yahoo.com
	Safety Officer,	
	Directorate of Disaster Management,	
	Port Blair Andaman & Nicobar Islands	

### **Identification of community Pilot Areas**

- Kollam District of Kerala was one of the worst hit places during the 2004 Indian Ocean Tsunami.
- Kerala will be impacted for the tsunamis from Makran subduction zone and Andaman-Sumatra Zone
- The village of Alappad of Kollam District, Kerala is identified for implementation of Tsunami Ready programme with the support of KSDMA and Amrita Vishwa Vidyapeetham
- Conducted a start-up meeting with Alappad community leaders on June 8, 2022





### Implementation of IOC-UNESCO Tsunami Ready in India

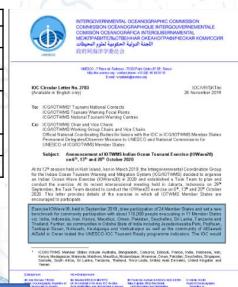
- In India, a National Board was constituted under the Chairmanship Director, INCOIS with members from Ministry of Earth Sciences (MoES), National Disaster Management Authority (NDMA), Ministry of Home Affairs (MHA), Odisha State Disaster Management Authority (OSDMA), A & N Islands Directorate of Disaster Management (DDM) and INCOIS.
- Odisha State Disaster Management Authority, (OSDMA) Odisha implemented the programme pilot basis in 6 villages
- During IOWave18 Tsunami Ready was validated in Balasore, Bhadrak, Kendrapada, Jagatsingpur, Ganjam and Puri and evacuated about 78,061 people

SI No	District	Block	Communities Name
1	Balasore	Balasore Sadar	Jayadevkasaba Pahi
2	Bhadrak	Basudevpur	Podhuan
3	Kendrapara	Mahakalpada	Tantiapal Sasan
4	Jagatsinghpur	Ersama	Noliasahi
$\mathcal{L}$			(Gadaharishpur GP)
5	Puri	Astaranga	Keutajanga
6	Ganjam	Rangeilunda	Venkatraipur

#### Extract from UNESCO-IOC's Circular Letter on announcement of IOWave20

Exercise IOWave18, held in September 2018, drew participation of 24 Member States and set a new benchmark for community participation with about 116,000 people evacuating in 11 Member States viz. India, Indonesia, Iran, Kenya, Mauritius, Oman, Pakistan, Seychelles, Sri Lanka, Tanzania and Thailand. Further, six communities in Odisha State of India including Jayadevkasaba Pahi, Podhuan, Tantiapal Sasan, Noliasahi, Keutajanga and Venkatraipur as well as the community of AlSawadi AlSahil in Oman tested the UNESCO-IOC Tsunami Ready programme indicators. The IOC would

like to congratulate these Member States and communities. Detailed report of Exercise IOWave18 can be downloaded as Technical Series IOC/2018/TS/138Vol.2.







## **Exercise Photos**

### **Coordination Meetings**





































### Implementation of IOC-UNESCO Tsunami Ready in India

- National Board visited to Venkatraipur of Ganjam district and Noliasahi of Jagatsinghpur district in December 2019
- National Board recognized 2 villages nationally and recommend for IOC-UNESCO recognition
- Venkatraipur and Noliasahi of Odisha recognized as Tsunami Ready communities by IOC-UNESCO















## **Tsunami Evacuation Planning**

- Evacuation maps were prepared by LDMOs in collaboration with communities
- Maps were prepared based on tsunami hazard zone mapping and in accordance with the community's emergency operations plan
- Maps were made available in print and digital media too. These maps were based on national standards
- Communities were involved in preparation of evacuation maps to incorporate local knowledge (accessibility/difficulties to reach or to take certain path)
- Evacuation plans and maps were validated during tsunami mock drills / exercises



