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How to Become Tsunami Ready, Tools

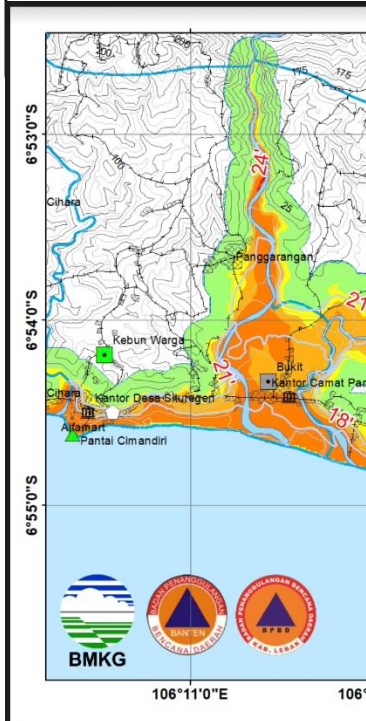
3.6 Tsunami Ready Recognition Program Application

Marie Eble

International Tsunami Information Center (ITIC)

Tsunami Ready Application Form

The Application should include supporting documentation, e.g. hazard and evacuation maps, outreach and awareness materials, response plan, signage pictures, images/video of tsunami exercises, warning and response centers and methods, etc.



ID_hazard_map_

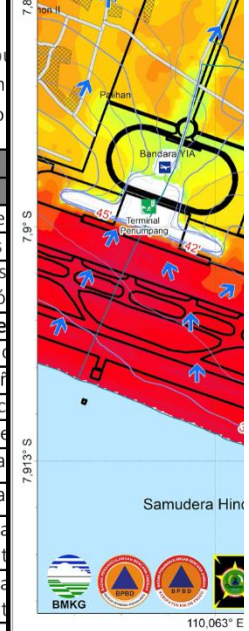
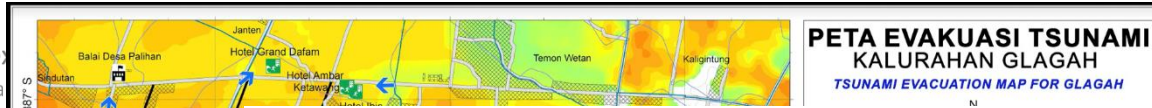
3.4. Población ex

3.4.1 Población fija

Los datos de población p
la preparación de la com
muchos de ellos no se co

1	Población total de
2	Total de unidades
3	Total de unidades zona de inundación
4	Población total de
5	Población de 5 años
6	Población de 65 años
7	Población con discapacidades
8	Mujeres cabeza de familia
9	Visitación turística
10	Visitación turística
11	Cantidad estimada de inundación durante
12	Cantidad estimada de inundación durante
13	Cantidad estimada de inundación durante

CR_people_at_risk_DD



ID_evacu

Tsunami Management Plan

Prepared By:
Village Disaster Management Committee
Venketraypur (New-Baxipalli)
GP: Baxipalli, Block: Rangeilunda

Facilitated By:
GUIDE (NGO)

District Disaster Management Authority (DDMA)
Ganjam, Odisha

IN_plan_Venkatraipur.pdf



exercise_Tiv_instructions.jpg

**Tsunami Ready Recognition Programme
Community Contact Information**

County	Locality/City/Town	Total amount of population	Amount of population to be evacuated
Tambakrejo Village	Sumbermanjing Wetan, Malang Districty	Approx. 8.673 residents	Approx. 8.673 residents
Primary Point of Contact		Secondary Point of Contact	
Name	Yonatan Saptoes	Name	Suhardi
Office	Tambakrejo Village Office	Office	Tambakrejo Command Centre
Title	Head of Tambakrejo Village	Title	Head of Tambakrejo Disaster Risk Reduction Forum
Mailing Addresses	Jl. Raya, Tambakrejo, Sumbermanjing Wetan, Malang Regency, East Java 65176	Mailing Addresses	J Jl. Raya, Tambakrejo, Sumbermanjing Wetan, Malang Regency, East Java 65176
City	Malang	City	Malang
State, ZIP	Indonesia	State, ZIP	Indonesia
Phone	+62 812-1771-7316	Phone	+62 856 50715965
email	yonatansaja2407@gmail.com	email	-

- Please add any important information as contact details.
- Information regarding the Tsunami Ready Local Committee can be added in this box: (members' titles, date of its establishment, institutions represented, key stakeholders, donors, etc.).

National Tsunami Ready Board - NTRB

Country	Total amount of population of the country	Date of establishment of the NTRB
Indonesia	273.000.000 (2020)	November 11, 2021
Contact information of the NTRB Chair		
Full Name	Prof. Dwikorita Karnawati	
Office / Institution	The Agency for Meteorology, Climatology, and Geophysics (BMKG)	
Title	Head of Agency	
Mailing Address	Gedung A, Jl. Angkasa I no 2, Kemayoran	
City	Jakarta	
State, ZIP	DKI 10610	
Phone	+62 21 4248016	
Email	dwiko@bmgk.go.id;	

List of members of the NTRB1 (please indicate name, institution and title)

STRUCTURE OF MEMBERSHIP OF NATIONAL TSUNAMI READY BOARD	
I. Steering Committee:	
A. Coordinating Minister for Human Development and Culture of the Republic of Indonesia	j. M. Ikhwan, S.T.
B. Coordinating Minister for Maritime Affairs and Investment of the Republic of Indonesia	k. Teguh Rahayu, S.Kom., M.M.
C. Minister of Home Affairs of the Republic of Indonesia	l. Suwardi, S.Si.
D. Head of the National Disaster Management Agency of the Republic of Indonesia	m. Mamurl
II. Chairman : Head of the Agency for Meteorology, Climatology, and Geophysics of Republic of Indonesia	n. Setyoaji Prayudhie, S.T., M.DM.
III. Vice Chairman:	2. National Disaster Management Agency:
A. Deputy Head for Geophysics of the Agency for Meteorology, Climatology, and Geophysics	a. Directorate of Preparedness
B. Deputy for Prevention of the National Disaster Management Agency	b. Directorate of Early Warning
C. Director General of Regional Administration of the Ministry of Home Affairs	3. Ministry of Home Affairs:
IV. Operating Committee	Directorate of Disaster and Fire Management
A. Chairman : Head of Center for Earthquake and Tsunami of the Agency for Meteorology, Climatology, and Geophysics	4. Indonesian Institute of Sciences
B. Deputy Chairman I : Director of Preparedness of the National Disaster Management Agency	Dr. Nuraini Rahma Hanifa, Ph.D.
C. Deputy Chairman II : Director of Disaster and Fire Management at the Ministry of Home Affairs	5. Regional Disaster Management Agency (BPBD)
D. Deputy Chairman III : Head of Bureau for Legal and Organization of the Agency for Meteorology, Climatology, and Geophysics	a. Executive Head of BPBD of Banten Province
E. Members:	b. Executive Head of BPBD of West Java Province
1. The Agency for Meteorology, Climatology, and Geophysics	c. Executive Head of BPBD of DIY Province
a. Head of Center for Engineering Seismology, Potential Geophysics, and Time Code	d. Executive Head of BPBD of East Java Province
b. Head of Regional Office for Meteorology, Climatology and Geophysics of Region II Tangerang	e. Executive Head of BPBD of Bali Province
c. Head of Regional Office for Meteorology, Climatology and Geophysics of Region III Denpasar	f. Executive Head of BPBD West Sumatera Province
d. Dr. Daryono, S.Si., M.Si.	g. Executive Head of BPBD of Pangandaran Regency
e. Iman Fachrurrochman, S.Si., M.DM.	h. Executive Head of BPBD of Sukabumi Regency
f. Anni Anumarsi Fitriany, S.Si.	i. Executive Head of BPBD of Garut Regency
g. Ajit Sudrajat, M.Sc.	j. Executive Head of BPBD of Cianjur Regency
h. Suci Dewi Anugrah, S.Si., M.Si.	k. Executive Head of BPBD of Tasikmalaya Regency
i. Wenzla, S.Kom., M.Sc.	l. Executive Head of BPBD of Lebak Regency
	m. Executive Head of BPBD of Kulon Progo Regency
	n. Executive Head of BPBD of Gunung Kidul Regency
	o. Executive Head of BPBD of Wonorejo Regency
	p. Executive Head of BPBD of Malang Regency
	q. Executive Head of BPBD of Badung Regency
	r. Executive Head of BPBD of Karang Asem Regency
	6. Institut Teknologi Bandung/Bandung Institute of Technology:
	a. Dr. Harkun Perbat Rahayu
	b. Dr. Endra Gunawan
	c. Dr. Rer. Nat. Wiwin Windupranata
	d. Dr. Hamzah Latif
	7. Indonesian Association of Disaster Experts
	Representatives of members of the Indonesian Association of Disaster Experts
	8. U-INSPIRE Indonesia:
	Representatives of U-INSPIRE Indonesia members



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¹ Add as many entries as needed.

**Tsunami Ready Recognition Programme
Fulfilment of the Indicators
Initial Recognition of Renewal**

<input checked="" type="checkbox"/> New Recognition	<input type="checkbox"/> Renewal Recognition
I. ASSESSMENT Indicators (Assess)	
Assess-1	Tsunami hazard zones are mapped and designated. <input checked="" type="checkbox"/> Verified
<input checked="" type="checkbox"/> Inundation modelling for maps	<input checked="" type="checkbox"/> Baseline tsunami zone for maps
Assess-2	The number of people at risk in the tsunami hazard zone is estimated. <input checked="" type="checkbox"/> Verified
<input checked="" type="checkbox"/> Approx. Number of people with disabilities	<input checked="" type="checkbox"/> Approx. Number of elderlies
<input checked="" type="checkbox"/> Approx. Number of young	<input checked="" type="checkbox"/> Approx. Number of workers
<input type="checkbox"/> Approx. Number of tourists	<input checked="" type="checkbox"/> Other (specify): Approx. Number of daytime and night-time
<input type="checkbox"/> Approx. Number of daytime population (summer)	<input type="checkbox"/> Approx. Number of night-time population (summer)
<input type="checkbox"/> Approx. Number of daytime population (winter)	<input checked="" type="checkbox"/> Approx. Number of wintertime population (winter)
Verification Team/Renewal Notes IOTIC's verification note: <ul style="list-style-type: none"> The FPRB members and the BPBD Kabupaten Malang will continue to have a sharing session among the members to ensure common knowledge and understanding of the tsunami hazard map in their village. FPRB members will develop the list of addresses and contacts of people with special needs, including pregnant women, and inform them of the contact information of the person in the FPRB Tambakrejo if there is an emergency. This will be reported annually.	
Assess-3	Available economic, infrastructural, political, and social resources are identified. <input checked="" type="checkbox"/> Verified
<input checked="" type="checkbox"/> Volunteer organizations	<input checked="" type="checkbox"/> Local or national budget
<input checked="" type="checkbox"/> Buildings and public spaces	<input checked="" type="checkbox"/> Local plans
<input checked="" type="checkbox"/> Local networks	
Other (specify):	
Verification Team/Renewal Notes IOTIC's verification note: <ul style="list-style-type: none"> The FPRB will continue to review and update the roles and responsibilities of their external resources (network and stakeholders) in their tsunami risk reduction plan. 	

II. PREPAREDNESS Indicators

Prep 1	Easily understood tsunami evacuation maps are approved. <input checked="" type="checkbox"/> Verified
<input checked="" type="checkbox"/> Print	<input checked="" type="checkbox"/> Digital media <input checked="" type="checkbox"/> Other (boards)
Prep 2	Tsunami information including signage is publicly displayed. <input checked="" type="checkbox"/> Verified
<input checked="" type="checkbox"/> Tsunami hazard zone signs	<input checked="" type="checkbox"/> Entering/leaving tsunami hazard zone signs <input checked="" type="checkbox"/> Evacuation routes signs
<input checked="" type="checkbox"/> Assembly areas signs	<input checked="" type="checkbox"/> Tsunami response education signs
<input checked="" type="checkbox"/> How to response	<input checked="" type="checkbox"/> Others: Evacuation Map
Verification Team Notes IOTIC Verification notes: <ul style="list-style-type: none"> The Head of the Village and FPRB Tambakrejo will formalize the agreement (in writing agreement) with the PERHUTANI and the rice field owner and witnessed by BPBD Kabupaten Malang to ensure the sustainability of the use of the TES and evacuation route. The village will immediately build a new and short cut evacuation route. The FPRB Tambakrejo will do regular review on the quality, material type, placement, and number (quantity) of the tsunami information board and signages to ensure they are permanent and durable. 	
Prep 3	Outreach and public awareness and education resources are available and distributed. Distribution should use <u>three or more</u> wide-reaching diverse methods. <input checked="" type="checkbox"/> Verified
<input checked="" type="checkbox"/> Brochures/flyers distributed at public venues	<input checked="" type="checkbox"/> Websites/social media
<input type="checkbox"/> Local faith-based and civic organization bulletins/mailings	<input checked="" type="checkbox"/> Billboard, roadside, highway, or educational signs
<input type="checkbox"/> Local radio and television	<input type="checkbox"/> Public utility/service industry bill safety notices
<input type="checkbox"/> Bulk email	<input type="checkbox"/> Historical markers and interpretive signs
<input type="checkbox"/> Newspaper Inserts	<input checked="" type="checkbox"/> Other: <u>Whatsapp Group</u>
Area of Distributions	
<input checked="" type="checkbox"/> Schools	<input checked="" type="checkbox"/> Community Centres
<input type="checkbox"/> Visitor Centre and Local Tourist Business e.g. restaurant, bars	<input type="checkbox"/> Child Care Centres
<input checked="" type="checkbox"/> Hotels, motels. And campgrounds	<input type="checkbox"/> Banks
<input type="checkbox"/> Marine Recreation Centres	<input type="checkbox"/> Health Centres
<input type="checkbox"/> Recreation Centres	<input type="checkbox"/> Port of Entries
<input type="checkbox"/> Information Centres	<input type="checkbox"/> Utilities Companies



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<input type="checkbox"/> Public Libraries	<input checked="" type="checkbox"/> Others: <u>villages office</u>
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Prep 4	Outreach or educational activities are held at least 3 times a year.	<input checked="" type="checkbox"/> Verified
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- Leverage of national, state, or regional campaigns through use of social media
- Multi-hazard events or presentations
- Booth at community events and/or county fairs
- Community tsunami safety workshops, town hall, or similar public/private meetings
- Media workshops
- Door to door safety campaigns targeted to people leaving or working in the tsunami hazard zone
- Other: Tsunami Drill

Prep 5	A community tsunami exercise is conducted at least every two years.	<input checked="" type="checkbox"/> Verified
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- Table top exercise Functional exercise Full-scale exercise

Verification Team/Renewal Notes
 IOTIC Verification notes:

- The Head of village head and FPRB Tambakrejo will continue to update and/or reprint the awareness and education materials as well as adapting them to the local context and language as needed. The Tambakrejo FPRB will engage and collaborate with young people in the village to be more active in developing and sharing awareness and education materials through social media.
- The FPRB Tambakrejo will increase and strengthened their engagement with schools through a regular / annual visit, advocacy, and exercises.
- The Head of Village and FPRB will continue to do exercise and include schools in the tsunami exercise. The FPRB Tambakrejo will assign members to document all of FPRB activities for reporting purposes.

III RESPONSE Indicators (Resp)

Resp 1	A community tsunami emergency response plan is approved.	<input checked="" type="checkbox"/> Verified
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- Identify tsunami as a hazard and provides risk assessment
- Present tsunami-hazard profile, including source locations, extend of inundation, run-up, previous or future tsunamis
- Describe community vulnerability
- Details 24-hour warning point procedures
- Specify emergency operations center (EOC) activation criteria
- Specify tsunami criteria and procedures for the activation of the public warning system

Provide contact information for all jurisdictional agencies and response partners

- Include evacuation plans for tsunamis, roles of community entities/agencies, maps and protocols
- Include procedures for updating information and determine when evacuated zones are safe
- Include procedures for providing security for the evacuated zone(s)
- Include procedures for reporting tsunami impacts in the community
- Include schools and critical facilities in the emergency operations plan

Resp 2	The capacity to manage emergency response operations during a tsunami is in place.	<input checked="" type="checkbox"/> Verified
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- Has 24-hour operations or plan to activate an EOC for tsunami incidents
- Has warning reception and dissemination capability
- Has ability and authority to activate the public warning system in its area of responsibility
- Maintains the ability to communicate within and across jurisdictions
- Maintains established communication links with NTWC and/or Emergency or Disaster Management Office to support the warning decision making process
- Has capacity to manage evacuations and respond to the consequences of a tsunami

Verification Team/Renewal
 IOTIC Verification Notes:

- The FPRB do further assessment under the worst-case event (as in the hazard map with the 8.7 Mw earthquake), on possible destruction and heavy damage due to the earthquake which will have an impact on the community's self-evacuation process.
- The FPRB Tambakrejo will continue to 1) document/write in detail the actions and activities they carried out during emergency response of other hazards to enrich the EOP document. 2) conduct a regular tabletop exercise with all stakeholders and supporting community organizations (internal and external). 3) work with district BPBD and FPRB, Karangates BMKG Station office, and other organizations to always receive training and support capacity building specifically for tsunami early warning emergency response.



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Resp 3	Redundant and reliable means to timely receive 24-hour official tsunami alerts are in place (At least three methods).	<input checked="" type="checkbox"/> Verified
<input type="checkbox"/> Public Alert Radio Systems (RDS, NWR, etc)	<input type="checkbox"/> Local radio: Emergency Alert System, LP1/LP2	
<input type="checkbox"/> National/Territorial warning call out tree system	<input checked="" type="checkbox"/> Active Internet monitoring capability	
<input checked="" type="checkbox"/> Instant messaging programs available via Internet	<input type="checkbox"/> Direct email from National Tsunami Warning Center or Tsunami Warning Focal Point or Disaster management Office or Other official source	
<input type="checkbox"/> Amateur Radio transceiver: Potential communications directly to National Tsunami Warning Center or Tsunami Warning Focal Point or Disaster Management Office or Other official source	<input type="checkbox"/> Direct fax from National Tsunami Warning Center or Tsunami Warning Focal Point or Disaster management Office or Other official source	
<input type="checkbox"/> Alerts provided through a third-party provider: Typically received via phone, email and/or a texting service to a smartphone, tablet, or computer	<input checked="" type="checkbox"/> Text message or direct pager from from National Tsunami Warning Center or Tsunami Warning Focal Point or Disaster management Office or Other official source	
<input type="checkbox"/> Amateur radio transceiver	<input type="checkbox"/> Coast Guard (CG) broadcasts	
<input type="checkbox"/> Third-party alert provider	<input checked="" type="checkbox"/> Other: <u>Whatsapp Groups, BMKG Mobile Application, BMKG Cloud Based Warning Receiver System, WRS New Generation at YIA</u>	
Resp 4	Redundant and reliable means to timely disseminate 24-hour official tsunami alerts to the public are in place (At least three methods).	Verified
<input type="checkbox"/> EAS message initiation and broadcast	<input type="checkbox"/> Amateur radio operator network (hamradio)	
<input checked="" type="checkbox"/> Plan for siren/megaphones on emergency vehicles	<input type="checkbox"/> Telephone mass notification system	
<input checked="" type="checkbox"/> Outdoor warning siren(s)	<input checked="" type="checkbox"/> Call out tree	
<input checked="" type="checkbox"/> Local alert broadcast system	Coordinated jurisdiction-wide radio network	
<input checked="" type="checkbox"/> Local pager/texting system	Countywide communications network	
<input checked="" type="checkbox"/> Plan for siren/megaphones on emergency vehicles	<input checked="" type="checkbox"/> Social media (Twitter, Facebook)	
<input checked="" type="checkbox"/> Outdoor warning siren(s)	<input checked="" type="checkbox"/> Lifeguards on beaches and on patrol	
<input checked="" type="checkbox"/> Other: <u>Kentongan, Whatsapp Groups</u>		

Verification Team/Renewal
IOTIC Verification Notes:

- Three (3) FPRB Tambakrejo members have their mobile phone numbers registered to receive the BMKG text message system (SMS) or call from BPBD Malang District. The village head and FPRB Tambakrejo will continue to look for better solutions or increase capacity to ensure the continuity of the electricity and communication system during an emergency. The FPRB Tambakrejo will have regular communication test with BPBD Malang District and to always update the contact information.
- The FPRB will continue to improve and explore other warning dissemination tools to be used.

Signature of Applying Official			
Office Name	Tambakrejo Village		
Application Submitted by (name of applicant)	Yonatan Saptoes	Title	Village Head
Signature		Date	5 September 2022
Print name of the authority receiving application / Chair of the Tsunami Ready Board	Prof. Dwikorita Karnawati	Date Received	12 December 2021
Site Verification Team Signatures (to be signed by the members of the Tsunami Ready verification team)			
	Ardito M Kodijat		
Office	UNESCO/IOC Indian Ocean Tsunami Information Centre / UNESCO Office Jakarta	Title	Head of IOTIC / Professional Officer UNESCO Office Jakarta
Signature		Date	7 September 2022
Print Name	Gloria BR Simangunsong		
Office	The Agency for Meteorology, Climatology, and Geophysics	Title	Staff of Earthquake Mitigation
Signature		Date	5 September 2022



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2022 - 2026

THANK YOU

Vinaka Vaka Levu

For more information:

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e-mail: itic@unesco.org

Marie Eble

UNESCO/IOC Tsunami Unit