



unesco

Intergovernmental
Oceanographic
Commission

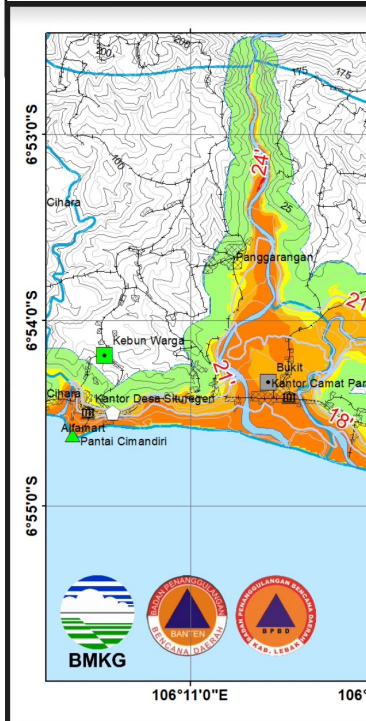
How to Become Tsunami Ready, Tools

3.3 Tsunami Ready Recognition Program Application

*Carolina Hincapie-Cardenas
International Tsunami Information Center (ITIC)*

Tsunami Re

The Application should include s
maps, outreach and awareness
images/video of tsunami exercis



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 |
| 4 | zona de inundació |
| 5 | Población total de |
| 6 | Población de 5 año |
| 7 | Población de 65 añ |
| 8 | Población con disc |
| 9 | Mujeres cabeza de |
| 10 | Visitación turística |
| 11 | Visitación turística |
| 12 | Cantidad estimada |
| 13 | inundación duran |

CR_people_a



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



m

uation

s, etc.

INAMI
H
LAGAH



unami_exercise_Tiv_instructions.jpg

Simulacro de evacuación por tsunamis Playa Tivives

1 Sienta, Escuche, Vea, Evacue

2 Ubique la rotulación cerca de donde se encuentra, para seguir la ruta

3 Cuando escuche la Sirena de Alerta Tsunami

4 Quédense en la Zona Segura

**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 Address | Jl. Raya, Tambakrejo, Sumbermanjing Wetan, Malang Regency, East Java 65176 | Mailing Address | 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 | |
|--|--|
| <p>I. Steering Committee:</p> <p>A. Coordinating Minister for Human Development and Culture of the Republic of Indonesia</p> <p>B. Coordinating Minister for Maritime Affairs and Investment of the Republic of Indonesia</p> <p>C. Minister of Home Affairs of the Republic of Indonesia</p> <p>D. Head of the National Disaster Management Agency of the Republic of Indonesia</p> <p>II. Chairman : Head of the Agency for Meteorology, Climatology, and Geophysics of Republic of Indonesia</p> <p>III. Vice Chairmen:</p> <p>A. Deputy Head for Geophysics of the Agency for Meteorology, Climatology, and Geophysics</p> <p>B. Deputy for Prevention of the National Disaster Management Agency</p> <p>C. Director General of Regional Administration of the Ministry of Home Affairs</p> <p>IV. Operating Committee</p> <p>A. Chairman : Head of Center for Earthquake and Tsunami of the Agency for Meteorology, Climatology, and Geophysics</p> <p>B. Deputy Chairman I : Director of Preparedness of the National Disaster Management Agency</p> <p>C. Deputy Chairman II : Director of Disaster and Fire Management at the Ministry of Home Affairs</p> <p>D. Deputy Chairman III : Head of Bureau for Legal and Organization of the Agency for Meteorology, Climatology, and Geophysics</p> <p>E. Members:</p> <p>1. The Agency for Meteorology, Climatology, and Geophysics</p> <p>a. Head of Center for Engineering Seismology, Potential Geophysics, and Time Code</p> <p>b. Head of Regional Office for Meteorology, Climatology and Geophysics of Region II Tangerang</p> <p>c. Head of Regional Office for Meteorology, Climatology and Geophysics of Region III Denpasar</p> <p>d. Dr. Daryono, S.Si., M.Si.</p> <p>e. Iman Fachturochman, S.Si., M.DM.</p> <p>f. Anni Arumani Fitriani, S.Si.</p> <p>g. Afti Sudrajat, M.Sc.</p> <p>h. Suci Dewi Anugrah, S.Si., M.Si.</p> <p>i. Weniza, S.Kom., M.Sc.</p> | <p>J. M. Ihsan, S.T.</p> <p>k. Teguh Rahayu, S.Kom., M.M.</p> <p>l. Sowardi, S.Si.</p> <p>m. Marnun</p> <p>n. Setiawan Prayoesih, S.T., M.DM.</p> <p>2. National Disaster Management Agency:</p> <p>a. Directorate of Preparedness</p> <p>b. Directorate of Early Warning</p> <p>3. Ministry of Home Affairs:</p> <p>4. Directorate of Disaster and Fire Management</p> <p>Indonesian Institute of Sciences</p> <p>Dr. Nuraini Rahma Hanifa, Ph.D.</p> <p>5. Regional Disaster Management Agency (BPBD)</p> <p>a. Executive Head of BPBD of Banten Province</p> <p>b. Executive Head of BPBD of West Java Province</p> <p>c. Executive Head of BPBD of DIY Province</p> <p>d. Executive Head of BPBD of East Java Province</p> <p>e. Executive Head of BPBD of Bali Province</p> <p>f. Executive Head of BPBD of West Sumatra Province</p> <p>g. Executive Head of BPBD of Pangdaran Regency</p> <p>h. Executive Head of BPBD of Sukabumi Regency</p> <p>i. Executive Head of BPBD of Garut Regency</p> <p>j. Executive Head of BPBD of Cianjur Regency</p> <p>k. Executive Head of BPBD of Tasikmalaya Regency</p> <p>l. Executive Head of BPBD of Lebak Regency</p> <p>m. Executive Head of BPBD of Kulon Progo Regency</p> <p>n. Executive Head of BPBD of Gunung Kidul Regency</p> <p>o. Executive Head of BPBD of Wonorejo Regency</p> <p>p. Executive Head of BPBD of Malang Regency</p> <p>q. Executive Head of BPBD of Badung Regency</p> <p>r. Executive Head of BPBD of Karang Asem Regency</p> <p>6. Institut Teknologi Bandung/Bandung Institute of Technology:</p> <p>a. Dr. Harkuni Partani Rahayu</p> <p>b. Dr. Endra Gunawan</p> <p>c. Dr. Rer. Nat. Wiwin Windupranata</p> <p>d. Dr. Hamzah Latif</p> <p>7. Indonesian Association of Disaster Experts</p> <p>Representatives of members of the Indonesian Association of Disaster Experts</p> <p>8. U-INSPIRE Indonesia:</p> <p>Representatives of U-INSPIRE Indonesia members</p> |

¹ Add as many entries as needed.



unesco

Intergovernmental
Oceanographic
Commission

**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.q. 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 |



unesco

Intergovernmental
Oceanographic
Commission

| | |
|---|--|
| <input type="checkbox"/> Public Libraries | <input checked="" type="checkbox"/> Others: <u>villages office</u> |
|---|--|

| | | |
|---------------|---|--|
| Prep 4 | Outreach or educational activities are held at least 3 times a year. | <input checked="" type="checkbox"/> Verified |
|---------------|---|--|

| |
|--|
| <input checked="" type="checkbox"/> Leverage of national, state, or regional campaigns through use of social media |
| <input checked="" type="checkbox"/> Multi-hazard events or presentations |
| <input checked="" type="checkbox"/> Booth at community events and/or county fairs |
| <input type="checkbox"/> Community tsunami safety workshops, town hall, or similar public/private meetings |
| <input type="checkbox"/> Media workshops |
| <input checked="" type="checkbox"/> Door to door safety campaigns targeted to people leaving or working in the tsunami hazard zone |
| <input checked="" type="checkbox"/> Other: Tsunami Drill |

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

| | | |
|--|---|---|
| <input checked="" type="checkbox"/> Table top exercise | <input checked="" type="checkbox"/> Functional exercise | <input checked="" type="checkbox"/> 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 |
|---------------|---|--|

| |
|---|
| <input checked="" type="checkbox"/> Identify tsunami as a hazard and provides risk assessment |
| <input checked="" type="checkbox"/> Present tsunami-hazard profile, including source locations, extend of inundation, run-up, previous or future tsunamis |
| <input checked="" type="checkbox"/> Describe community vulnerability |
| <input checked="" type="checkbox"/> Details 24-hour warning point procedures |
| <input checked="" type="checkbox"/> Specify emergency operations center (EOC) activation criteria |
| <input checked="" type="checkbox"/> Specify tsunami criteria and procedures for the activation of the public warning system |
| Provide contact information for all jurisdictional agencies and response partners |

| | | |
|--|---|--|
| <input checked="" type="checkbox"/> Include evacuation plans for tsunamis, roles of community entities/agencies, maps and protocols | | |
| <input checked="" type="checkbox"/> Include procedures for updating information and determine when evacuated zones are safe | | |
| <input checked="" type="checkbox"/> Include procedures for providing security for the evacuated zone(s) | | |
| <input checked="" type="checkbox"/> Include procedures for reporting tsunami impacts in the community | | |
| <input checked="" type="checkbox"/> 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 |
| <input checked="" type="checkbox"/> Has 24-hour operations or plan to activate an EOC for tsunami incidents | | |
| <input checked="" type="checkbox"/> Has warning reception and dissemination capability | | |
| <input checked="" type="checkbox"/> Has ability and authority to activate the public warning system in its area of responsibility | | |
| <input checked="" type="checkbox"/> Maintains the ability to communicate within and across jurisdictions | | |
| <input checked="" type="checkbox"/> Maintains established communication links with NTWC and/or Emergency or Disaster Management Office to support the warning decision making process | | |
| <input checked="" type="checkbox"/> Has capacity to manage evacuations and respond to the consequences of a tsunami | | |
| <i>Verification Team/Renewal</i> IOTIC Verification Notes: <ul style="list-style-type: none"> 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. | | |



unesco

Intergovernmental
 Oceanographic
 Commission

| | | |
|--|--|--|
| 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 |



unesco

Intergovernmental
Oceanographic
Commission



THANK YOU

Vinaka Vaka Levu

For more information:

web: tsunamiready.org

e-mail: itic@unesco.org

Carolina Hincapie-Cardenas
International Tsunami Information Center (ITIC)