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# Tsunami Ready Response Indicator and Development of SOP

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ICG Indian Ocean Tsunami Warning & Mitigation System SOP Workshops July 2023:  
*Standard Operating Procedures (SOPs) for  
National Tsunami Warning Centres (NTWCs) and  
Disaster Management Organisations (DMOs)*

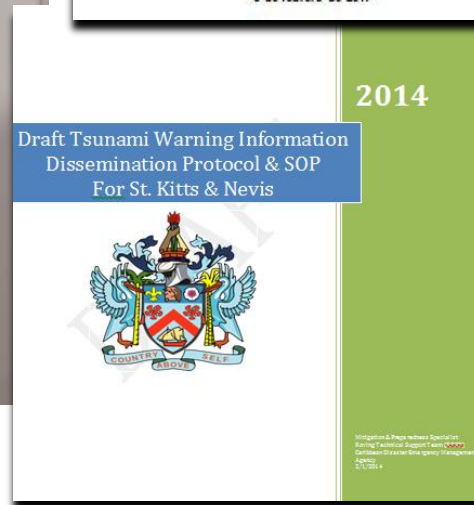
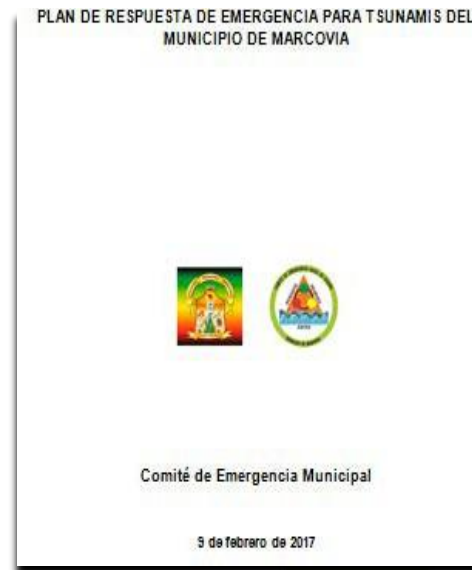
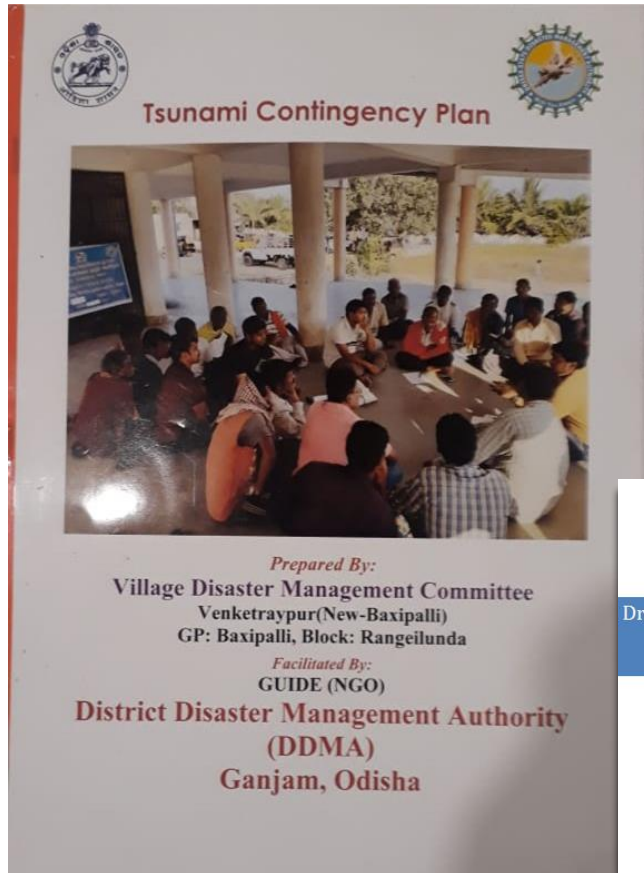
# Tsunami Ready Response indicators

*Response refers to actions taken directly before, during or immediately after a disaster in order to save lives, reduce health impacts, ensure public safety and meet the basic subsistence needs of the people affected (PreventionWeb, UNDRR\*).*

## **RESPONSE (RESP)**

- RESP-1. A community tsunami emergency operations plan is approved
- RESP-2. The capacity to manage emergency response operations during a tsunami is in place
- RESP-3. Redundant and reliable means to timely receive 24-hour official tsunami alerts are in place
- RESP-4. Redundant and reliable means to timely disseminate 24-hour official tsunami alerts to the public are in place

# RESP-1: A community Tsunami Emergency Response Plan is approved

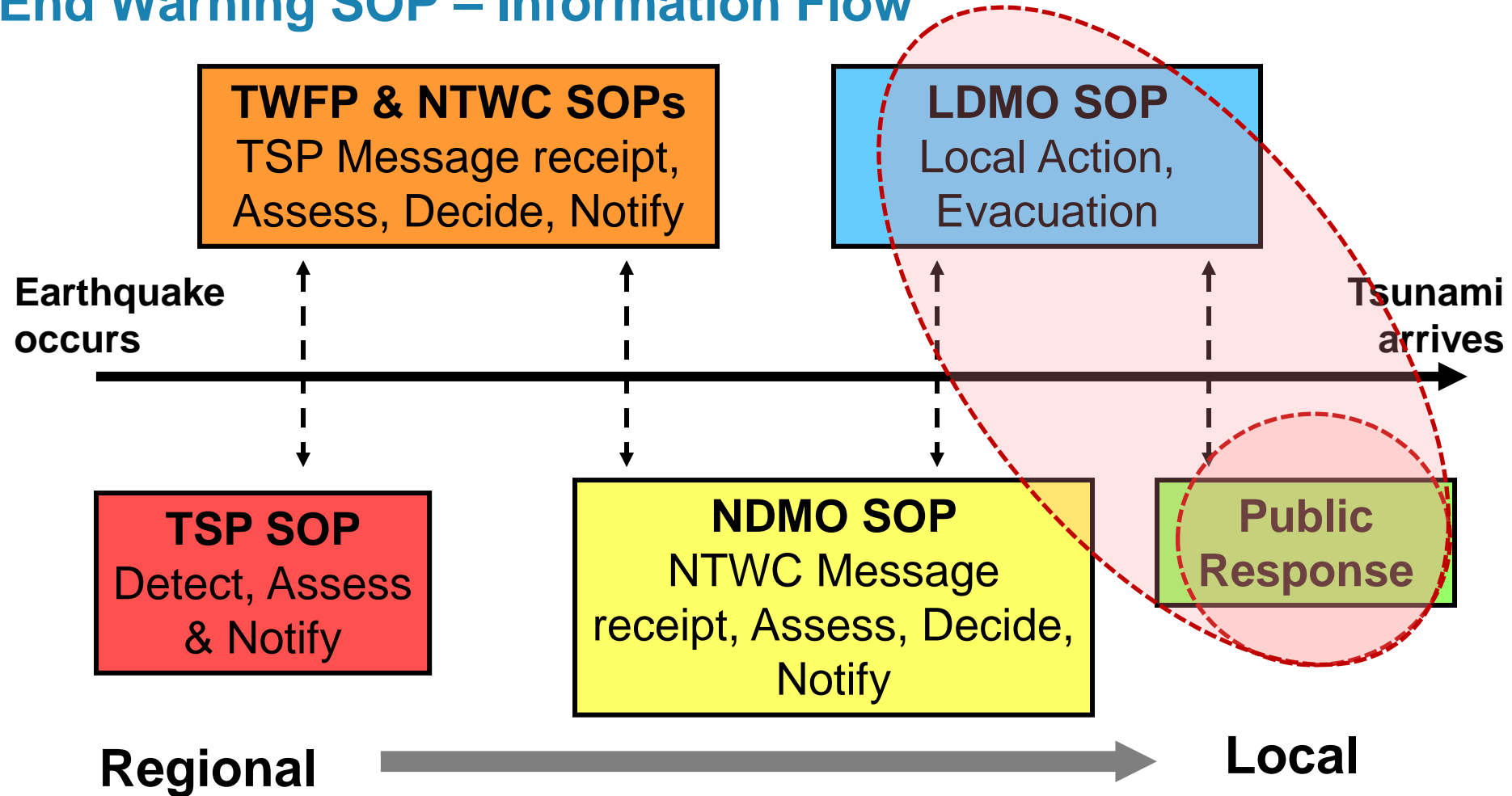


The community should have approved Tsunami Response Plan:

- Can be part of a multi-hazard plan that includes response for tsunamis.
- Addresses both response to local and distance tsunamis.
- Should be part of national or local (province, district, or village) Emergency Response Plan.

# RESP-1: A community Tsunami Emergency Response Plan is approved

## End-to-End Warning SOP – Information Flow

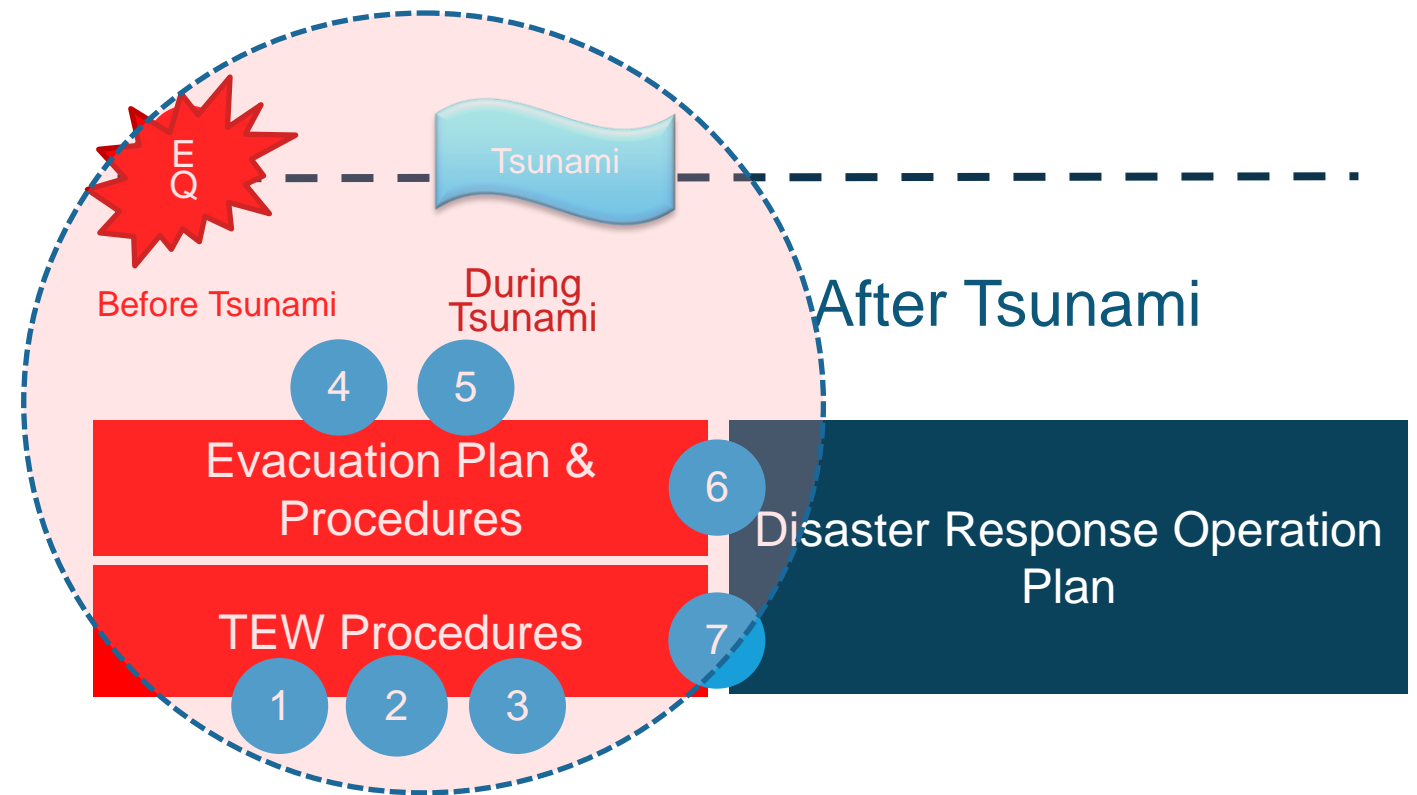


Source: MG76

# RESP-1: A community Tsunami Emergency Response Plan is approved

## SOPs related to the TERP at local level

1. SOPs for receipt of warnings and cancellation messages from the NTWC
2. SOPs for decision making on evacuations
3. SOPs for public alerting
4. SOPs for support and manage evacuations
5. SOP for traffic management
6. SOP for all clear and safe return
7. SOPs for media arrangements

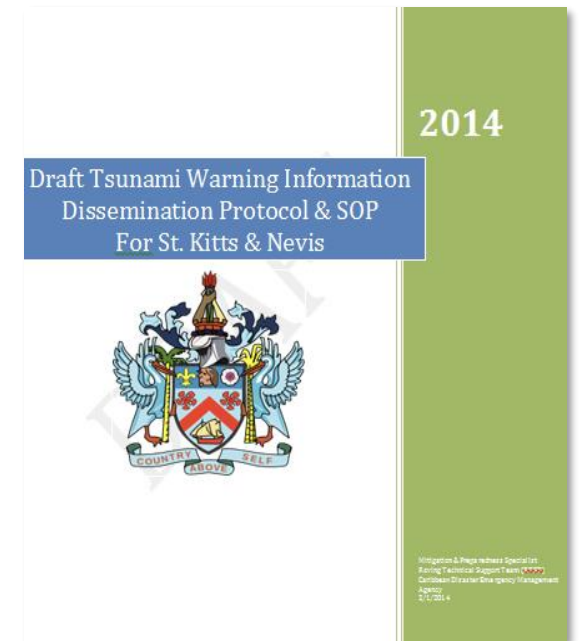
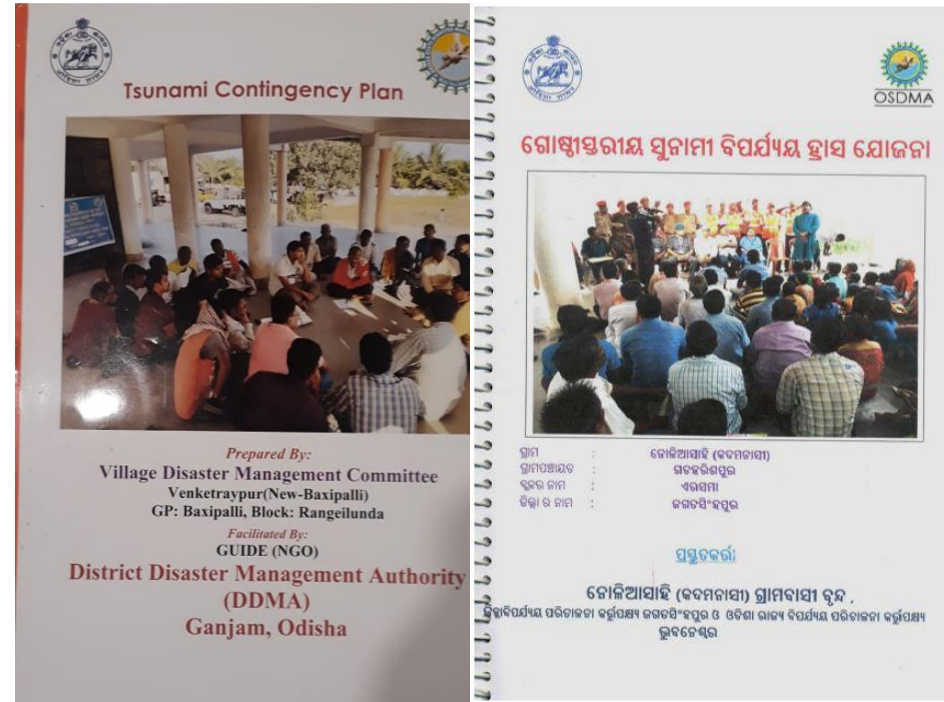


# RESP-1: A community Tsunami Emergency Response Plan is approved

## Examples of Community Emergency Response Plan



Cedeno, Honduras  
Emergency Response Plan, 2017



Draft Tsunami Warning Information Dissemination Protocol and Standard Operating Procedures (SOP) for St. Kitts and Nevis which satisfies RESP-1

# RESP-2: The capacity to manage emergency response operations during a tsunami is in place

The community should have **the capacity to execute the response plan:**

- Support the National or Local Emergency Operations Centre (EOC) during tsunami events, if an EOC is activated.
- Have the ability and authority to execute tsunami warning and response actions.
- On a 24-hour basis.



# RESP-2: The capacity to manage emergency response operations during a tsunami is in place

## Capacities needed to manage Tsunami Emergency response operations during a tsunami

1. People **who will carry out** the emergency response operation
  - SOP
  - Knowledge
  - Skill
2. Facilities and Infrastructures **to implement the emergency response operations**
  - Tools
  - Equipment
  - Logistics



# RESP-2: The capacity to manage emergency response operations during a tsunami is in place

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## Arrangements needed to manage Tsunami emergency response operations during a tsunami

1. Has 24-hour operations or plan to activate Community ERC for tsunami incidents
2. Has warning reception and dissemination capability
3. Has ability and authority to activate the public alert system
4. Maintains the ability to communicate within and across jurisdictions
5. Maintains communications links with NTWC and/or DMO
6. Has capacity to manage evacuations and respond to the consequences of a tsunami

# RESP-2: The capacity to manage emergency response operations during a tsunami is in place

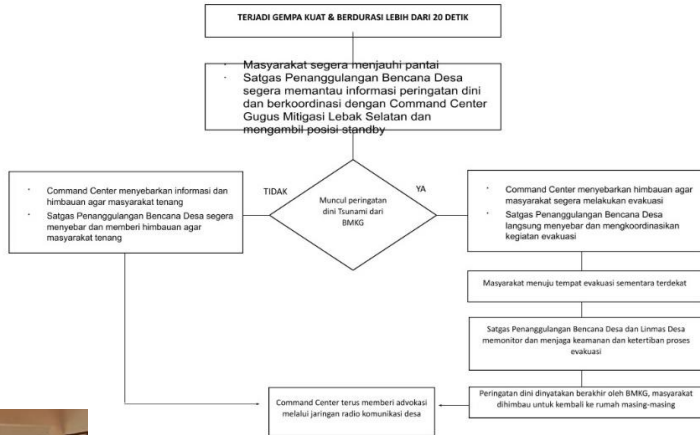
## Arrangements needed to manage Tsunami Emergency Response Operations during a tsunami

- ✓ The Community ERC roles that must be fulfilled are:
  - Control: a local controller should be in charge and coordinates response activities
  - Operations:
    - the appropriate and relevant section / group should be activated
    - to conduct threat analysis and to identify gaps and shortfalls
    - to keep track and ensure continuity of operations

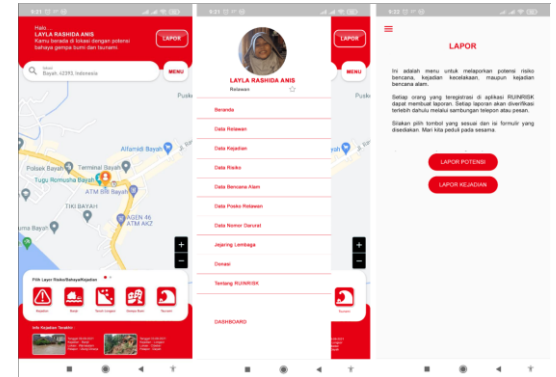
# RESP-2: The capacity to manage emergency response operations during a tsunami is in place

## Capacities needed to manage emergency response operations during a tsunami

SOP PERINGATAN DINI DAN EVAKUASI GEMPA TSUNAMI



Continuous capacity building, training, and exercises



# RESP-2: The capacity to manage emergency response operations during a tsunami is in place

## Capacities needed to manage emergency response operations during a tsunami



**Emergency Operation Team 24/7**



# RESP-2: The capacity to manage emergency response operations during a tsunami is in place

## Capacities needed to manage emergency response operations during a tsunami



Pangandaran Village Alert Car



Smart Poles at four locations



Command Centre



TAGANA Pangandaran Disaster Preparedness Equipment

FKDM Personnel Training with BPBD and BASARNAS



# RESP-3: Redundant and reliable means to timely receive 24-hour official tsunami alerts are in place



The community should have **means to receive tsunami alerts:**

- Redundant and reliable means to receive official tsunami alerts from the authorities.
- Reach on 24-hour basis.
- At least three different systems.

# RESP-4: Redundant and reliable means to timely disseminate 24-hour official tsunami alerts to the public are in place

The community should have **means to disseminate tsunami alerts:**

- Redundant and reliable means to disseminate official tsunami alerts to the public.
- On a 24-basis.
- At least three different systems.





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# THANK YOU

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