



OSDMA

Community Based Tsunami Preparedness

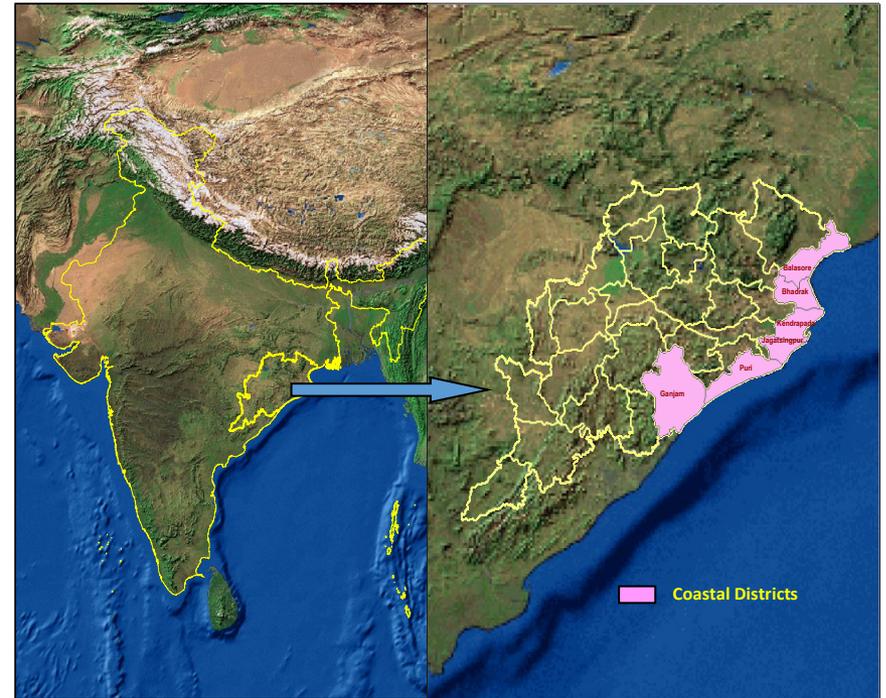
Dr. Gyana Das, IAS

Executive Director

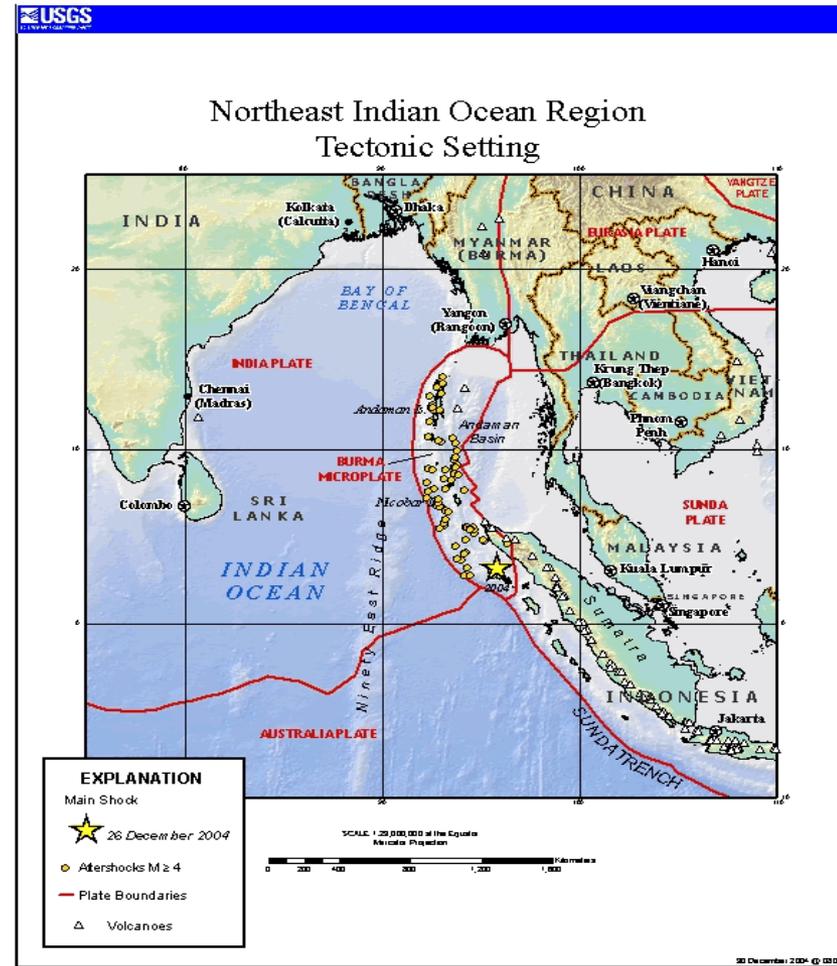
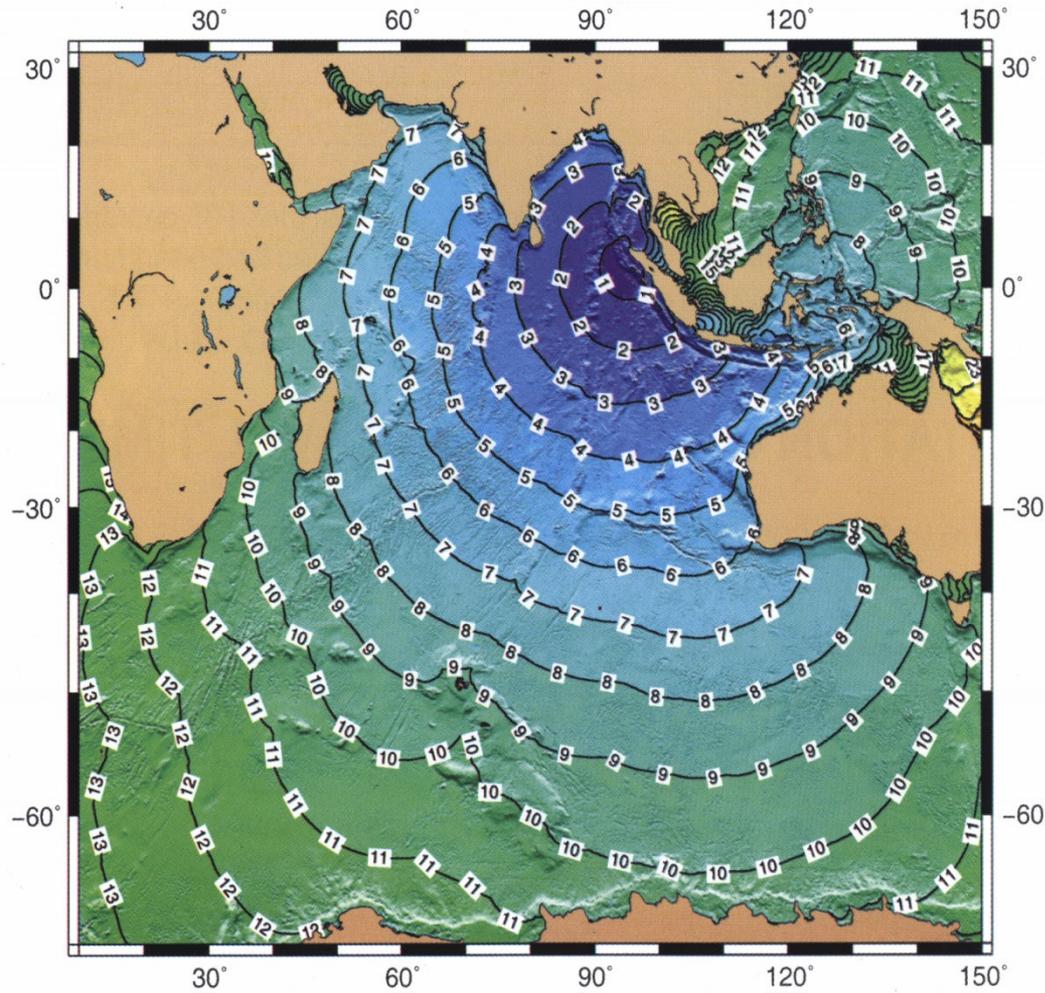
**Odisha State Disaster Management Authority
Government of Odisha**

Tsunami Vulnerability

- 480 km coastline
- 381 villages/wards in 6 districts
- 5 Urban Local bodies
- 5 tourist locations (including Puri / Konark)
- 3,00,000 people



Tsunami Travel Time Atlas



Indian Ocean Tsunami Ready Programme

- Community performance-based programme
- Improved community preparedness
- Minimize the loss of life and property
- Ensure structural and systematic approach in building community preparedness.
- Active collaboration of all stakeholders.



SI No	District	Block (Sub-Dist)	Village
1	Balasore	Balasore Sadar	Jayadevkasaba Pahi
2	Bhadrak	Basudevpur	Podhuan
3	Kendrapara	Mahakalpada	Tantiapal Sasan
4	Jagatsinghpur	Ersama	Noliasahi
5	Puri	Astaranga	Keutajanga
6	Ganjam	Rangeilunda	Venkatraipur

Indian Ocean Tsunami Ready Indicators - 11

MITIGATION (MIT)

MIT 1	Have Community Tsunami Risk Reduction Plan
MIT 2	Have designated and mapped tsunami hazard – inundation zones
MIT 3	Have a public display of tsunami information

PREPAREDNESS (PREP)

PREP 1	Produce easily understood tsunami evacuation maps as determined to be appropriate by local authorities in collaboration with communities
PREP 2	Develop and distribute outreach and public education materials
PREP 3	Hold at least three outreach or educational activities annually
PREP 4	Conduct an annual tsunami community exercise

RESPONSE (RESP)

RESP 1	Address tsunami hazards in the community's Emergency Operations Plan (EOP)
RESP 2	Commit to supporting the Emergency Operations Centre (EOC) during a tsunami incident, if an EOC is open and activated.
RESP 3	Have redundant and reliable means for a 24-hour warning point (and EOC if activated) to receive official tsunami threats
RESP 4	Have redundant and reliable means for a 24-hour warning point and/or EOC to disseminate official tsunami alerts to the public

Integrated Tsunami Preparedness Plan



- ❑ 24X7 State Emergency Operation Centers
- ❑ District EOCs and Block EOCs
- ❑ Identified tsunami Shelters along coast
- ❑ Specialized disaster response forces-Odisha Disaster Rapid Action Force (ODRAF)
- ❑ Fire Service Unit in each block
- ❑ Community based disaster preparedness
- ❑ Training and capacity building activities at various level
- ❑ Multi layer communication System
- ❑ Regular Mock drills
- ❑ Disaster Management Plans at State/District/Department/Block/village level

Outreach and Awareness Programmes



Orientation Programme



Sensitization meeting



Awareness Programme



Mock Drills

Community Led Plan

- Situation Analysis
- Vulnerability Mapping
 - Area
 - People
 - Assets / Infrastructure
- Resource Mapping
- Task Force Teams
- Response Plan
- Mock drills





ସୁନାମା ବିପର୍ଯ୍ୟୟ ଯୋଜନା ପୁସ୍ତିକା

Tsunami Management Plans at village level



Community Tsunami Management Plan



Name of the District: Puri
Name of the Block: Astaranga
Name of the GP: Sisua
Name of the Village: Keutaianga



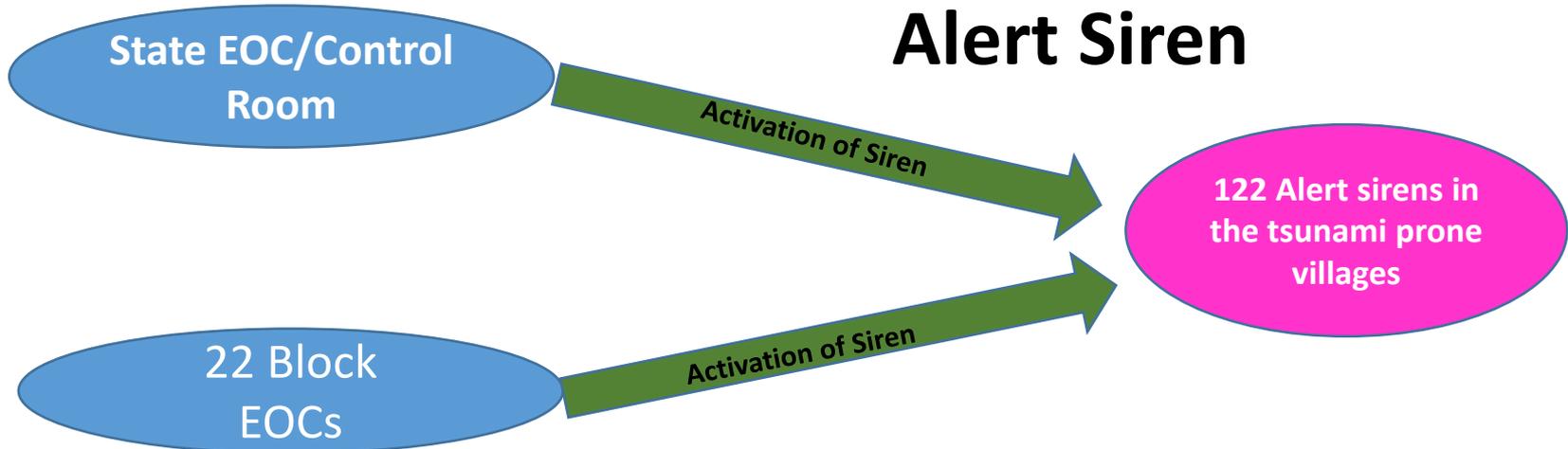
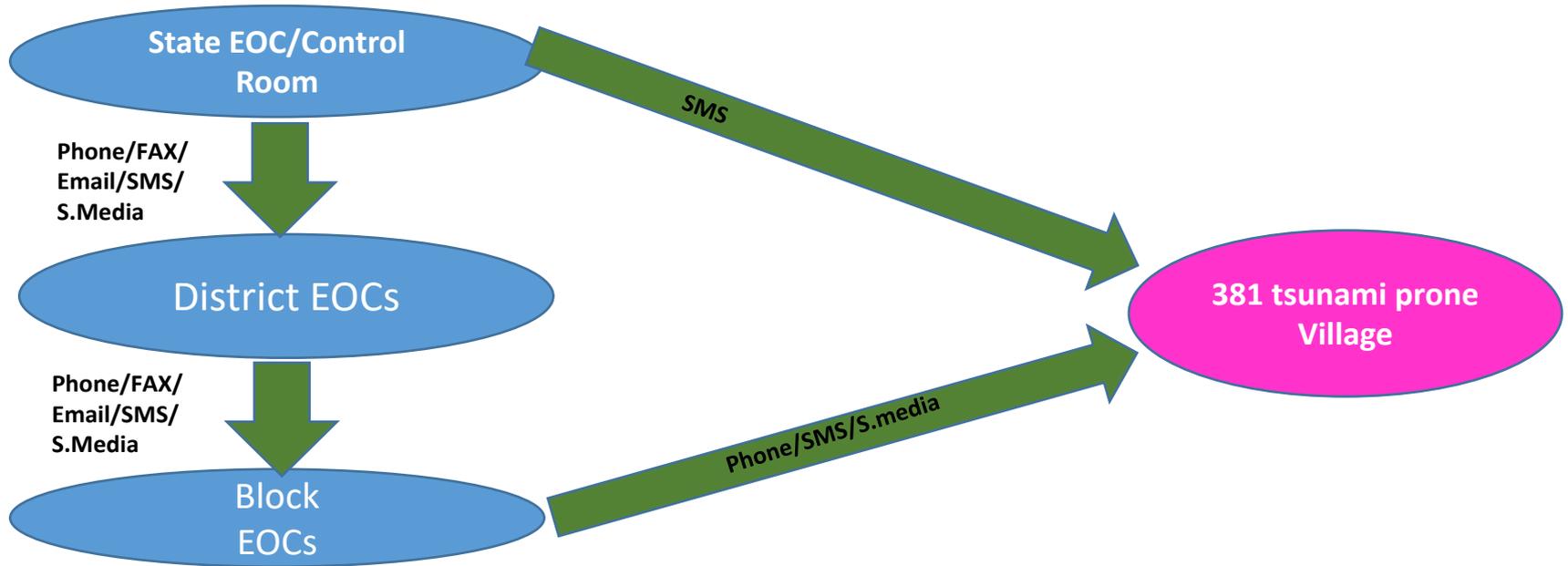
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ଗ୍ରାମ ର ନାମ : ଚଢ଼ିଆପାଳ ଶାସନ
 ଗ୍ରାମ ପଞ୍ଚାୟତ ର ନାମ : ଭାଞ୍ଜୁଡ଼ା
 ବ୍ଲକ ର ନାମ : ମହାକାଳପଡ଼ା
 ଜିଲ୍ଲା ର ନାମ : କେନ୍ଦ୍ରାପଡ଼ା

ଗ୍ରାମ ର ନାମ : ଜୟଦେବ କସବା ପାହି
 ଗ୍ରାମ ପଞ୍ଚାୟତ ର ନାମ : ଜୟଦେବ କସବା
 ବ୍ଲକ ର ନାମ : ସଦର
 ଜିଲ୍ଲା ର ନାମ : ବାଲେଶ୍ଵର

Parallel Warning Dissemination



Emergency Operation Centre



EWDS in Tsunami prone villages

- Alert Siren: in 122 locations
- Covers entire coast line (2 km)



Tsunami evacuation awareness

ସୁନାମା ସତର୍କତା ଓ ସୁରକ୍ଷା OSDMA

ସୁନାମା ସତର୍କତା ଓ ସୁରକ୍ଷା
 ସୁନାମା ସତର୍କତା ଓ ସୁରକ୍ଷା କେବଳ ସୁନାମା ସତର୍କତା ସମାବେଶ ଥାଏ। ଏହାର ପ୍ରସାରଣରେ
 ଗତକ୍ରମ ଅଞ୍ଚଳକୁ ଖୁବ୍ ଶୀଘ୍ର ବିଶାଳ ଓ ବେଶଗାମୀ ବେଳ ନାହିଁ। ଏହା ଧ୍ୟାନ ଦେବାକୁ ପଡ଼ିଥାଏ।

ସୁନାମା ଆସିବାର ଲକ୍ଷଣ

- ସମୁଦ୍ର ଉଚ୍ଚ ଓ ନୀଚ ହୁଏ।
- ସମୁଦ୍ର ତଳେ ଗର୍ଜନ ଶୁଣାଯାଏ।
- ସମୁଦ୍ର ପୃଷ୍ଠରେ ଚଳନ୍ତ ବସ୍ତୁ ଉଠିବାର ଦେଖାଯାଏ।
- ସୁନାମା ଆସିବା ସମୟରେ ସମୁଦ୍ର ଉଚ୍ଚ ଓ ନୀଚ ହୋଇଥାଏ।

TSUNAMI HAZARD ZONE



ଏହି ଅଞ୍ଚଳ ସୁନାମା ପ୍ରବଣ ଅଞ୍ଚଳ ଭାବେ ଚିହ୍ନିତ କରାଯାଇଛି



ସୁନାମାରୁ ସୁରକ୍ଷା

- ସୁନାମା ଆସିବାର ସୁନାମା ପ୍ରକାରରେ ସୁରକ୍ଷା ପ୍ରଦାନ କରାଯାଏ।
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ସୁନାମା ପାଇଁ ପ୍ରସ୍ତୁତି

ସୁନାମା ଆଗରଣ ଥିବା ଅଞ୍ଚଳରେ ବହୁ ପୂର୍ବରୁ ପ୍ରସ୍ତୁତ ଓ ସଚେତନ ରୁହନ୍ତୁ। ଏହି ଅଞ୍ଚଳରେ ସୁନାମା ଚଳଣ ଆସିଲେ ପ୍ରାୟ ପ୍ରସ୍ତୁତି ପାଇଁ ସାମାଜିକ ସମୟ ନିଶ୍ଚୟ ନାହିଁ।

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ସୁନାମା କର୍ମସୂଚୀ ଦ୍ୱାରା ନିର୍ଦ୍ଧାରିତ ହୋଇଥିବା ଆଗ୍ରଣସୂଚୀ ବିଷୟରେ ଅବଗତ ହୋଇ ଏହାକୁ ସାମାଜିକ କରୁଥିବା ବାଣ୍ୟ ସମ୍ପର୍କରେ ଜାଣି ରଖନ୍ତୁ।

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ସୁନାମା ଆସିବାର ଲକ୍ଷଣ ଓ ସୁରକ୍ଷା

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Vulnerable Population

Abstract

Sl No.	Details	No. of HH	No. of Persons
1.	HH (Total)	1229	4992
2.	HH Living within a distance of 500 mtr from the the sea	320	1022
3.	HH Living within a distance of 1000 mtr from the the sea	748	3527
4.	HH Living within a distance of 1500 mtr from the the sea	1229	4992
5.	HH with poorly constructed houses (Dilapidated House)	25	123
6	Old aged population	680	750
7	Women headed house (Widow)	03	03
8	Physically challenged person	11	11
9	Pregnant women/ lactating Mothers	36	36
10	Destitute		
11	Children below (0-6 yrs)	134	245
12	Sick and Ailing	2	2
13.	Those who are dependent on specific medication for survival	2	2

List of PWDs

Sl.No.	Name of the PWD	Sex	Age
1.	B. Gouri	F	25
2.	K. Kiran	F	30
3.	K. Gaja raju	M	23
4.	A. Ravi	M	50
5.	K. Gureya	M	45
6.	M. Satyama	F	60
7.	L.Ludhiya	F	11
8.	L.Timothy	M	37
9.	Ch. Lachhimi	F	25
10.	D. Guramma	F	45
11.	B. Esu	M	30

List Preganent / Lactecting Womens

Sl.No.	Name of the Prengent/Lactcting women	Sex	Age
1.	A. Puspa	F	25
2.	D. mahalaxmi	F	21
3.	D. Janaki	F	25
4.	G. Kali	F	20
5.	Tabassum Begam	F	23
6.	M. Lachhimi	F	23
7.	M. Urbasi	F	25
8.	D. Papama	F	25
9.	N. Allama	F	20

List of Single Womens

Sl.No.	Name of the Single women / Women headed house	Sex	Age
1.	P. Subhadra	F	40
2.	K. Kaliama	F	50
3.	N. Kaliama	F	40

Task Force Teams

Search & Rescue

SI No.	Name of the Members	Sex	Age	Contact No.
1.	U. Simanchalam	M	35	9040303800
2.	K. Prasad	M	24	8917303139
3.	Prakash Nayak	M	25	9040357744
4.	K. Janakamma	F	22	7978156646
5.	R. Mahalaxmi	F	29	7789975882

Damage Assessment

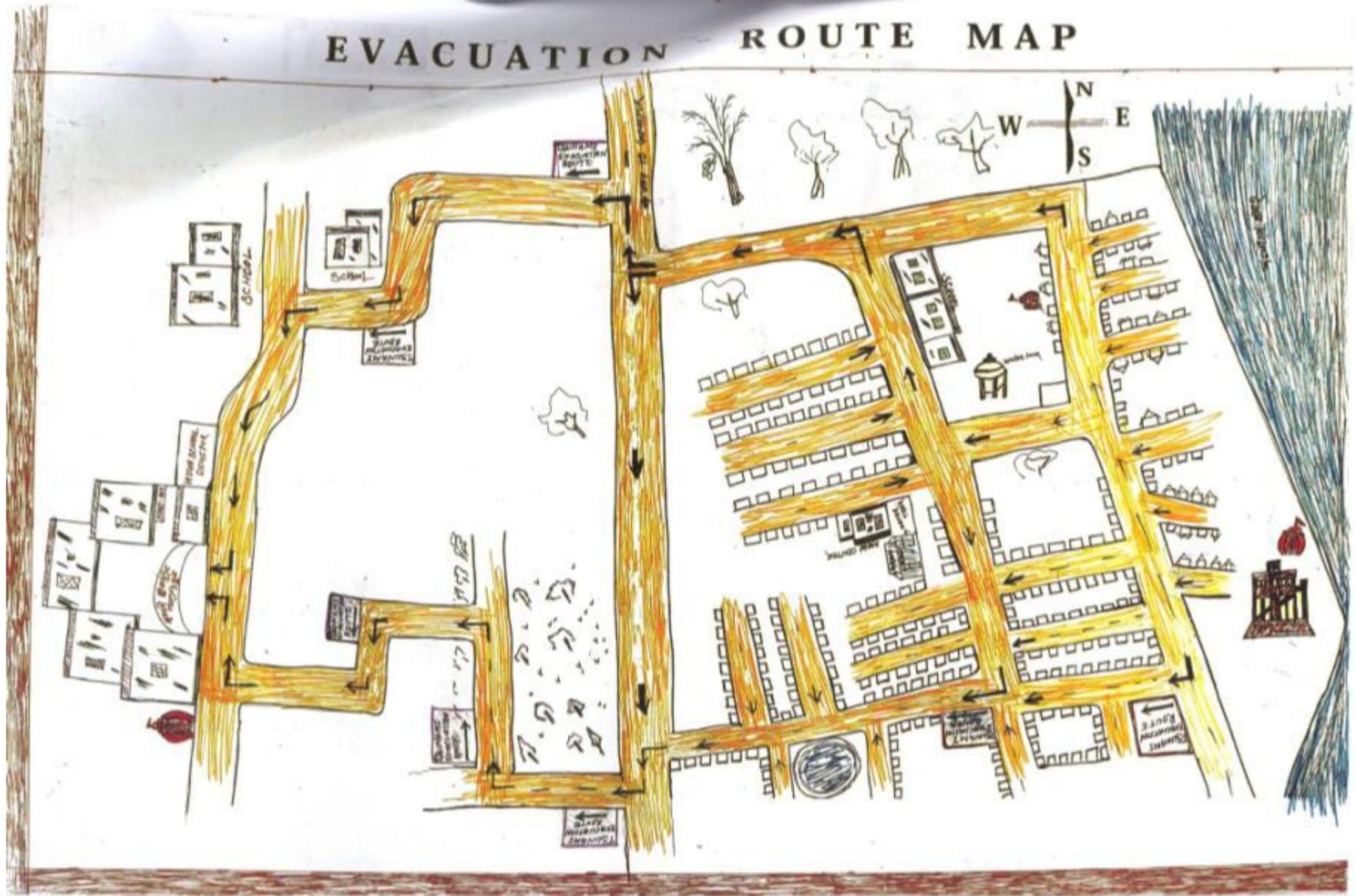
SI No.	Name of the Members	Sex	Age	Contact No.
1.	S. Sujata	F	35	8989636961
2.	K. Nela	F	22	7978156646
3.	Debaraj Nayak	M	25	9776296571
4.	Siba Nayak	M	23	9438865791
5.	Deepak nayak	M	19	9438865791

Water & Sanitation

SI No.	Name of the Members	Sex	Age	Contact No.
1.	Lokeswari Sahu	F	30	7377714629
2.	P. Laxmikanta	F	33	9337712145
3.	S. Mohan	M	25	8917424874
4.	B. Ananda	M	23	9379872900
5.	M.Basudev	M	22	7205300627

Tsunami Evacuation Plan

EVACUATION ROUTE MAP



ସାମାଜିକ ମାନଚିତ୍ର ଗ୍ରାମ-ପରିସର

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- କୋଳା ଗଡ଼ - ■
- ଶୁଖିଲା କୋଳା - □
- ବୃକ୍ଷାଳୟ - [house icon]
- ନିକାସ - [house icon]
- ଫିଲ୍ଡ ହାଉସ - [house icon]
- ମାଟି ଗଡ଼ - [house icon]
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- ଶୁଖିଲା କୋଳା - [house icon]
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ଦକ୍ଷିଣ

Safe Shelter

- Away from tsunami hazard zone
- All weather approach road
- Evacuation route signage to the shelter
- Readiness in all times
- Community Ownership



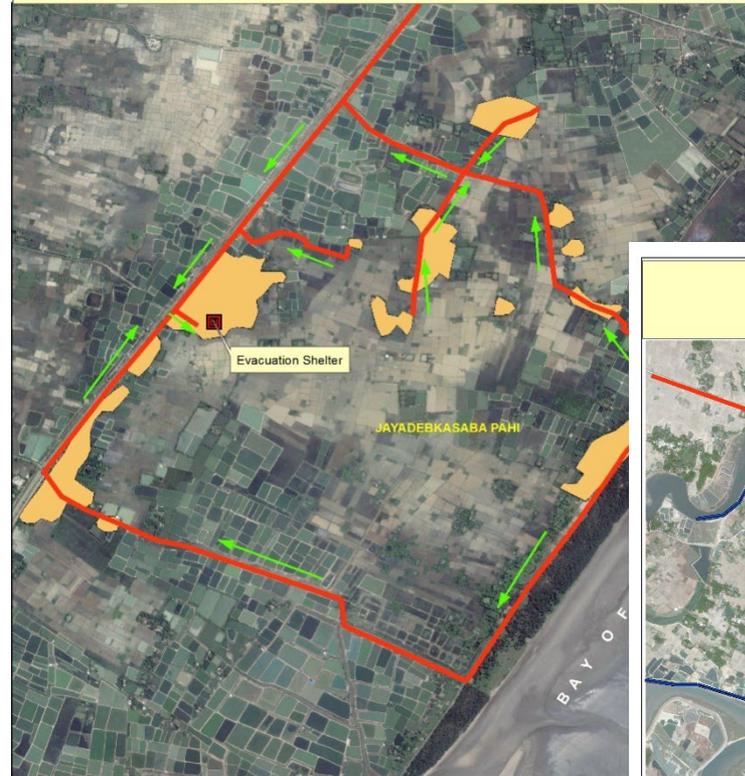
TSUNAMI EVACUATION MAP VENKATRAIPUR & NEWBOXIPALLI



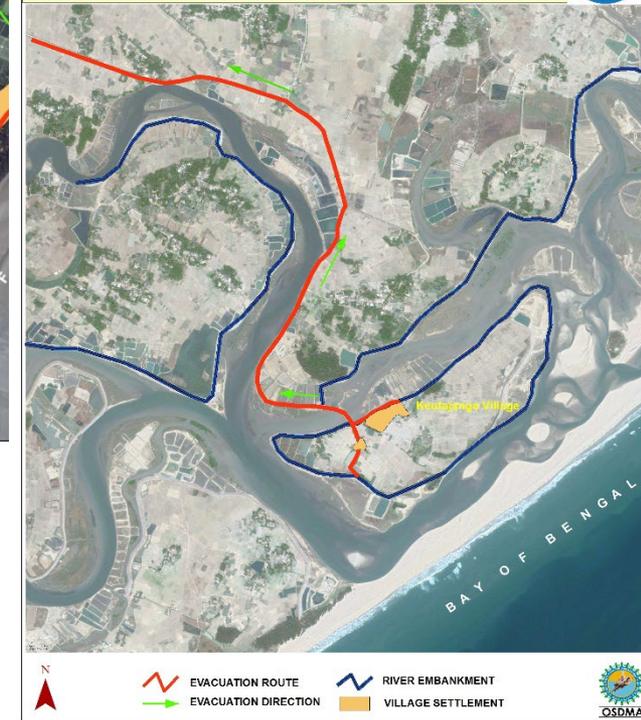
Tsunami evacuation maps



TSUNAMI EVACUATION MAP JAYADEVKASABAPAHU VILLAGE



TSUNAMI EVACUATION MAP KEUTAJANGA VILLAGE



In Case of Tsunami



Notice any strange behavior in animals



Move quickly to higher ground or inland



Act fast when warning is issued



Grab a tree



Take first aid kits



Keep your mobile phone

Do's and Dont's in case of a Tsunami

Do's

- Move to higher grounds and elevated areas
- Move to upper levels of a high multi-storey concrete building
- Move uplands as far as you can
- Be prepare to survive on your own
- Prepare an emergency kit with basic necessities
- Stay tuned to your national radio or TV once in safety
- Bulletins will be issued regularly to keep you update
- Listen to the radio for an official "all clear" notice before returning to the coastal area
- Keep members of the family aware of dangers associated with a tsunami

Dont's

- Never go to the coast to watch a tsunami
- A tsunami moves faster than a person can run
- Do not return to the beach until Emergency Officials give the "Termination Bulletin"

Evacuation

- Early Warning dissemination at community by local volunteers



Evacuation Strategies

- Door to door alert and ensuring 100% evacuation



Evacuation Strategies

- Follow safe route
- Care to vulnerable community



Evacuation Strategies

- Gathering at common place



Tsunami Mock Drill -5 Nov 2021

- 66 villages and 3 ULBs in 6 coastal district
- Test message from INCOIS to SEOC
- Transmission from SEOC to
 - Communities /DMTs
 - Sub-district offices
 - DEOC
- Task force teams to most vulnerable household
- Assembling of people
- Evacuation to tsunami shelter through designated route
- Shelter management
- Debriefing



Way Ahead

- All Tsunami-prone villages
- Regular Plan updation and mock drill
- Streamlining dissemination of warning
- Readiness of tsunami shelters all-time
- Capacity building of all stakeholders



Recognition

- India is the first country in the Indian Ocean Region and Odisha is the first state to prepare communities as Tsunami Ready.
- UNESCO–IOC recognized
 - Venkatraipur village of Ganjam district
 - Noliasahi village of Jagatsinghpur district.



