

Fourteenth Session of the Intergovernmental Coordination Group
for the Indian Ocean Tsunami Warning and Mitigation System
(ICG/IOTWMS-XIV)

Jakarta, Indonesia, 17-19 November 2024

National Report of Bangladesh

Page 1: Overview

Q1 **Confirm by clicking the checkbox**

Consent: I have read the above information and wish to proceed.

Q2 **Bangladesh**

Please select your country from the list below:

Page 2: PART I: Basic Information

Q3

TNC Name:

Md. Azizur Rahman

Q4

Position:

Director

Q5

Organisation:

Bangladesh Meteorological Department

Q6

Telephone Number:

Q7

E-mail Address:

info@bmd.gov.bd

Q8

Fax Number:

Q9

Postal Address:

Bangladesh Meteorological Department (BMD)
E-24, Agargaon, Dhaka-1207

Page 3: PART I: Basic Information

Q10

NTWC Agency Name:

Seismic Observatory And Research Center

Q11

NTWC URL (web link) for tsunami warnings:

www.bmd.gov.bd

Q12

NTWC Agency Contact or Officer in Charge (person):

Md. Rubyet Kabir

Q13

Position:

Meteorologist

Q14

Telephone Number:

Q15

E-mail Address:

nobel74@gmail.com

Q16

Postal Address:

Bangladesh Meteorological Department
E-24, Agargaon, Dhaka-1207

Q17

No

3a) Is your Tsunami Warning Focal Point (TWFP) the same as your National Tsunami Warning Centre (NTWC) agency? The TWFP is the 24 x 7 point of contact (office, operational unit or position, not a person) officially designated by the NTWC or the government to receive and disseminate tsunami information from an ICG Tsunami Service Provider according to established national Standard Operating Procedures. The TWFP may or not be the NTWC.

Page 4: PART I: Basic Information

Q18

TWFP Agency Name (if different from the NTWC Agency):

Bangladesh Meteorological Department

Q19

Name:

Md. Momenul Islam

Q20

Position:

Meteorologist

Q21

Telephone Number:

Q22

E-mail Address:

momenulislam799@hotmail.com

Q23

Postal Address:

Administrative Division
Bangladesh Meteorological Department
E-24, Agargaon, Dhaka-1207

Page 5: PART I: Basic Information

Q24

TWFP 24x7 point of contact (office, operational unit or position, not a person):

Bangladesh Meteorological Department

Q25

E-mail Address:

Q26

Telephone Number:

Q27

Cellular Telephone Number:

Q28

Fax:

Page 6: PART I: Basic Information

Q29

Yes

3d) Has your country appointed a Tsunami Ready Focal Point (TRFP)? The TRFP is a person from the Disaster Management (DMO) or similar institution that:- Acts as a national advocate for national implementation of the Tsunami Ready Recognition Programme (TRRP) or a recognised similar initiative to help make at-risk communities prepared and resilient to any tsunami threat within their Member State.- Actively contributes to the national implementation of TRRP or a recognised similar initiative.- Routinely update UNESCO-IOC ICG/IOTWMS on the status of the national implementation of the TRRP or a recognised similar initiative. - Informs relevant national authorities and organisations involved in the implementation of TRRP or a recognised similar initiative on any information and/or updates provided by UNESCO-IOC on activities related to making at risk communities Tsunami Ready.

Q30

If yes, please provide their details below: Name of the TRFP:

Mr. Netai Chandra Dey Sarker

Q31

Position:

Director

Q32

Agency:

Department of Disaster Management

Q33

Telephone Number:

Q34

E-mail Address:

netai@mail.com

Q35

Postal Address:

Department of Disaster Management (DDM)
Bir Uttam A, K Khandakar Road
92-93, Mohakhali Ba/A, Dhaka-1212.

Page 7: PART II: Hazard Assessment

Q36

Yes

4a) Has your country undertaken a hazard assessment?

Page 8: PART II: Hazard Assessment

Q37

Multi-hazard assessment including tsunami

4b) What type of hazard assessment has been carried out?

Page 9: PART II: Hazard Assessment

Q38

Drought,
Tsunami,
Earthquakes,
Flooding,
Landslide,
Cyclone,
Other (please specify):
Health

4c) What type of multi-hazard assessment has been carried out? (select all that apply)

Page 10: PART II: Hazard Assessment

Q39

National Agency,
Please specify the name(s) of the agencies:
DDM

4d) Who did the tsunami hazard assessment in your country? (select all that apply)

Q40

National Level,
Regional Level,
City Level,
Village Level

4e) At what level was the tsunami hazard assessment carried out? (select all that apply)

Q41

4f) Which coastal areas have been mapped for tsunami hazard? Please include the names of the Region / City and an approximation of the percentage mapped.

Chottogram, Cox's Bazar, Chandpur, Satkhira, Khulna, Bagerhat, Pirozpur, Jhalakati, Barguna, Patuakhali, Bhola, Lakshmipur, Noakhali, Feni, etc.

Q42

4g) For each of the data types listed below (in rows), answer the two questions (in columns). Select Yes / No / Don't know from the drop-down menu.

	Was this data used for tsunami hazard assessment?	Is this data publicly available?
Bathymetry	Yes	No
Seismo-tectonic model	No	No
Topography	Yes	No
Land Cover	No	No
Infrastructure details	No	No

Other data used (please specify):

Seismic data, technological and health data, housing data

Q43

4h) What products do you have from the tsunami hazard assessment? (select all that apply)

Probabilistic Tsunami Hazard Assessment (PTHA),

Inundation map,

Other (please specify):

Exposure category of population to Tsunami hazard.

Page 11: PART II: Hazard Assessment

Q44

4i) On a scale of 1 (Very poor) to 5 (Very good), please rate your country's capability to undertake tsunami hazard assessment

Capacity to undertake tsunami hazard assessment **Good**

Q45

4j) On a scale of 1 (Not a priority) to 5 (Essential), what is the priority level in your country to improve capacity in the following areas of tsunami hazard assessment?

Probabilistic Tsunami Hazard Assessment (PTHA)	High priority
Deterministic Tsunami Hazard Analysis	High priority
Field Studies on Tsunami Impacts	High priority
Hazard map	High priority
Inundation map	High priority
Evacuation map	Medium priority
What other areas of capacity in tsunami hazard assessment require improvement?	Evacuation mapping for Tsunami hazard.

Q46

4k) On a scale of 1 (No capacity) to 5 (Very good), what capacity does your country have to give training and/or consultancy on tsunami hazard assessment to other countries?

Probabilistic Tsunami Hazard Assessment (PTHA)	No capacity
Deterministic Tsunami Hazard Analysis	Poor
Field Studies on Tsunami Impacts	Poor
Hazard map	Poor
Inundation map	Poor
Evacuation map	Poor

Page 12: PART II: Risk Assessment

Q47 **Yes**

5a) Has your country undertaken a tsunami risk assessment?

Page 13: PART II: Risk Assessment

Q48 **Multi-hazard risk assessment including tsunami**

5b) What type of risk assessment?

Page 14: PART II: Risk Assessment

Q49

5c) What hazards have been considered in your multi-hazard risk assessment? (select all that apply)

Tsunami,
Drought,
Earthquakes,
Flooding,
Landslide,
Cyclone,
Other (please specify):
Health

Page 15: PART II: Risk Assessment

Q50

5d) Who did the tsunami risk assessment in your country? (select all that apply)

National Agency,
Please specify the name(s) of the agency(ies):
Department of Disaster Management

Q51

5e) At what level was the tsunami risk assessment carried out? (select all that apply)

National Level,
Regional Level,
Village Level,
Community / Neighbourhood Level,
Other (please specify):
Union level

Q52

5f) Which coastal areas have been tsunami risk mapped? Please include the names of the Region / City and an approximation of the overall national percentage of risk prone areas mapped.

Chottogram, Cox's Bazar, Chandpur, Satkhira, Khulna, Bagerhat, Pirozpur, Jhalakati, Barguna, Patuakhali, Bhola, Lakshmipur, Noakhali, Feni etc.

Q53

5g) How many Cities / Municipalities / Regencies are at risk from tsunami?

Chottogram, Cox's Bazar, Chandpur, Satkhira, Khulna, Bagerhat, Pirozpur, Jhalakati, Barguna, Patuakhali, Bhola, Lakshmipur, Noakhali, Feni etc.
14 districts.

Q54

5h) What products do you have from the tsunami risk assessment? (select all that apply)

Risk map,
Others (please specify below),
Other (please specify):
Exposure map

Page 16: PART II: Risk Assessment

Q55

5i) On a scale of 1 (Very poor) to 5 (Very good), please rate your country's capability to undertake tsunami risk assessment

Capability to undertake tsunami risk assessment **Fair**

Q56

5j) On a scale of 1 (Not a priority) to 5 (Essential), what is the priority level of your country to improve capacity in the following areas of tsunami risk assessment?

Tsunami risk assessment at national level **High priority**

Tsunami risk assessment at regional level **High priority**

Tsunami risk assessment at city level **High priority**

Tsunami risk assessment at village level **High priority**

Tsunami risk assessment at community / neighbourhood level **High priority**

Q57

5k) On a scale of 1 (No capacity) to 5 (Very good) what capacity does your country have to give training and/or consultancy on tsunami risk assessment to other countries?

Tsunami risk assessment at national level **Poor**

Tsunami risk assessment at regional level **Poor**

Tsunami risk assessment at city level **Poor**

Tsunami risk assessment at village level **Poor**

Tsunami risk assessment at community / neighbourhood level **Poor**

Other (specify below) **Poor**

Page 17: PART II: Policies

Q58

6a) Does your country have a national tsunami policy? For each of the four disaster management phases listed below, select standalone policy / multi hazard policy / policy not available. Use the comments box to detail the specific name of the policy (if available).

In what form is the policy?

Prevention and mitigation **Multi hazard including tsunami**

Preparedness **Multi hazard including tsunami**

Emergency response **Multi hazard including tsunami**

Rehabilitation and reconstruction **Multi hazard including tsunami**

What is the name of policy? (if available):

Standing order on Disaster (SOD)

Q59

6b) Does your country have local tsunami policies? For each of the disaster management phases listed below, select standalone policy / multi hazard policy / policy not available. Use the comments box to detail the specific name(s) of the policy (if available).

	In what form is the policy?
Prevention and mitigation	Multi hazard including tsunami
Preparedness	Multi hazard including tsunami
Emergency response	Multi hazard including tsunami
Rehabilitation and reconstruction	Multi hazard including tsunami

What is the name of policy? (if available):
Standing order on Disaster (SOD)

Page 18: PART II: Plans

Q60

7a) Does your country have national, local and community level tsunami disaster risk reduction plans? For each of the four disaster management phases listed below, select standalone plan / multi hazard plan / plan not available. Use the comments box to detail the specific name(s) of the plan(s) (if available). Please use the scroll bar to view the entire table.

	National level	Local level	Community level
Prevention and mitigation	Multi hazard including tsunami	Multi hazard including tsunami	Multi hazard including tsunami
Preparedness	Multi hazard including tsunami	Multi hazard including tsunami	Multi hazard including tsunami
Emergency response	Multi hazard including tsunami	Multi hazard including tsunami	Multi hazard including tsunami
Rehabilitation and reconstruction	Multi hazard including tsunami	Multi hazard including tsunami	Multi hazard including tsunami

Q61

Yes

7b) Are your country's tsunami disaster risk reduction plans based on hazards and risk assessments?

Page 19: PART II: Guidelines

Q62

8a) Does your country have national tsunami DRR guidelines? For each of the four lifecycle phases, select standalone guidelines / multi hazard guidelines / guidelines not available. Use the comments box to detail the specific name of the guidelines (if available).

In what form are the guidelines?

Prevention and mitigation	Multi hazard guidelines including tsunami
Preparedness	Multi hazard guidelines including tsunami
Emergency response	Multi hazard guidelines including tsunami
Rehabilitation and reconstruction	Multi hazard guidelines including tsunami

What is the name of guidelines? (if available):
Standing order on Disaster (SOD)

Q63

8b) Does your country have local tsunami DRR guidelines? For each of the four lifecycle phases, select standalone guidelines / multi-hazard guidelines / guidelines not available. Use the comments box to detail the specific name of the guidelines (if available).

In what form are the guidelines?

Prevention and mitigation	Multi hazard guidelines including tsunami
Preparedness	Multi hazard guidelines including tsunami
Emergency response	Multi hazard guidelines including tsunami
Rehabilitation and reconstruction	Multi hazard guidelines including tsunami

What is the name of guidelines? (if available):
Standing order on Disaster (SOD)

Page 20: PART III: Detection and Warning

Q64

Yes

9a) Does your country have a national capability to assess and/or receive potential tsunami threat information and advise/warn its coastal communities?

Page 21: PART III: Detection and Warning

Q65

Use TSP data

9b) Does your country utilise the data provided by the IOTWMS Tsunami Service Providers (TSPs) for the Coastal Forecast Zones (CFZ) of your country's coastline to determine national threats or does it undertake its own threat assessments? (select all that apply)

Q66

9c) Which organisation in your country has the responsibility for assessing and/or receiving potential tsunami threat information? Please provide the name and contact details.

Bangladesh Meteorological Department

E-24, Agargaon, Dhaka-1207. Telephone Number: +88 02 41025705, Fax: +88 02 41025727

Email: info@bmd.gov.bd

Q67

Yes

9d) Does the organisation responsible for assessing and/or receiving potential tsunami threat information operate 24x7?

Q68

9e) What / which infrastructure is available to enable 24x7 operations? (select all that apply)

**Computers,
Internet,
Landline Phone,
Mobile Phone or Cell Phone,
Fax,
GTS (WMO Global Telecommunication System),
UPS (Uninterruptable Power Supply)**

Q69

9f) Which level of tsunami threat forecast information is produced by the responsible organisation? (select all that apply)

**National,
Local**

Q70

Yes, national only

9g) Does the organisation have access to national and/or international seismic networks? (please select one from the following options)

Page 22

Q71

9h) Is national seismic data shared in real time?

**All national seismic data is shared in real time,
Please specify which seismic data is shared in real time:
Earthquake Measuring seismogram data.**

Page 23: PART III: Detection and Warning

Q72 **No**

9i) Does your organisation have access to GNSS data?

Q73 **Yes**

9j) Is the list of broadband seismometers operated by your country listed accurately in the IOTWMS seismic database (http://www.ioc-tsunami.org/index.php?option=com_oe&task=viewDocumentRecord&docID=20796)?

Q74 **There are no changes,**

9k) When compared to the IOTWMS seismic database (http://www.ioc-tsunami.org/index.php?option=com_oe&task=viewDocumentRecord&docID=20796), have you decommissioned or added broadband seismometers operated by your country (Check all that apply and include details in the comments section below)

Please indicate which stations have been decommissioned or added, including the Station Name/Location, email Contact of the Station Operator (IOTWMS Secretariat will contact for more information).:
So far Bangladesh Meteorological Department does not share any seismic data. BMD also is not able to compare other organizational data.

Page 24: PART III: Detection and Warning

Q75 **No**

9l) Does the organisation have access to national and/or international sea level networks? (please select one answer from the following options)

Page 25: PART III: Detection and Warning

Q76 **Respondent skipped this question**

9m) Is national sea level data shared in real time?

Page 26: PART III: Detection and Warning

Q77 **Yes**

9n) Is the list of sea level stations operated by your country listed accurately in the IOTWMS sea level database (http://www.ioc-tsunami.org/index.php?option=com_oe&task=viewDocumentRecord&docID=20833)?

Q78

9o) When compared to the IOTWMS sea level database (http://www.ioc-tsunami.org/index.php?option=com_oe&task=viewDocumentRecord&docID=20833), have you decommissioned or added sea level stations operated by your country (Check all that apply and include details in the comments section below)

There are no changes,

Please indicate which stations have been decommissioned or added, including the Station Name/Location, email Contact of the Station Operator (IOTWMS Secretariat will contact for more information).: Bangladesh Meteorological Department don't have real time tide gauge data.

Page 27: PART III: Detection and Warning

Q79

9p) What other observing networks are operated by your country and used for tsunami early warning?

No other observing networks are operated by the country

Q80

9q) Does the organisation have the capability of analysing real-time seismic and sea-level data for potential tsunami threat?

YesPlease specify the software tools used:
Only real time seismic data is operated.

Q81

9r) Does the organisation have capability for tsunami modelling to support generation of threat forecasts?

No

Q82

9s) Does the organisation responsible for identifying a potential tsunami threat also issue national tsunami no threat, watches, advisories, alerts and/or warnings?

NoWhich organisation provides the tsunami products?:
TSP India, TSP Indonesia, TSP Australia

Q83

9t) What are the threshold or criteria (for example sea levels, magnitude) for declaring a potential national tsunami emergency, watch, alert, advisory or warning?

Magnitude >6.8 near the coast.

Q84

9u) What actions were taken by your country's National Tsunami Warning Centre (NTWC) and/or Tsunami Warning Focal Point (TWFP) in response to earthquake events and messages issued by the IOTWMS TSPs during the inter-sessional period?

When we received message from IOTWMS TSPs then we sent it to DDM, AFD, media, website etc. immediately. DDM distributed message their field level.

Q85 **Yes (please name the organisation(s) that participated in the additional comments)**
 9v) Did your country's NTWC and/or TWFP participate in the 6-monthly communications tests conducted by the IOTWMS TSPs?
 ,
 Additional comments:
 Bangladesh Meteorological Department

Q86 **Yes (please name the exercise(s) and organisation(s) that participated in the additional comments)**
 9w) Did your country's NTWC and/or TWFP participate in national and/or international Tsunami Exercises (eg. IOWave) conducted in the inter-sessional period between ICG meetings?
 ,
 Additional comments:
 IOWave, IOTWMS Communications Test etc

Q87 **No**
 9x) After the December 26 2004 tsunami and until now, was your country impacted by any damaging tsunami? If Yes, what was your national response to each event (please comment if warnings were issued by your NTWC in a timely manner to enable communities to respond, if public were evacuated, etc.)

Q88 **No**
 9y) Since 2018, have there been any enhancements in your national warning SOPs and alerting?

Page 28: PART III: Dissemination

Q89 **Email,**
SMS,
Telephone,
Fax,
Webpage,
Radio,
WhatsApp / Facebook / Other social media,
Sirens,
Television,
VHF radio,
 Other:
 Miking

Q90

10b) For each emergency response organisation listed below, which communication methods for emergency response are available? (select all that apply)

National DMOs	Telephone, Fax, Email, SMS, Siren
Local DMOs	Telephone, Email, SMS, Siren
General Public	Email, SMS, Siren
Coastal Communities	SMS, Siren, Other (please specify below)
Media	Telephone, Email, SMS
Other communication methods (please specify)	
Miking	

Q91

10c) How is the warning situation terminated?

Tsunami withdrawal message

Q92

10d) What website is used for display of national threat status during events? Please provide the URL.

www.bmd.gov.bd

Q93

No

10e) Does your country's national tsunami warning system utilise the Common Alert Protocol (CAP) for the dissemination of warnings? If yes, please describe how the CAP is integrated into your warning dissemination processes, including any platforms or communication channels that are specifically utilised to broadcast CAP-formatted alerts to the public and relevant stakeholders.

Q94

10f) Who is primarily responsible for the direct dissemination of tsunami alerts to the public in your country, and what is the timeframe for these alerts to achieve effective last-mile responses? Please provide details.

Department of Disaster Management

Q95

11a) For each of the (upstream) emergency response issues listed below (in rows), consider the four questions (in columns). Select a yes/no response using the drop-down menus.

	Does your SOP address this aspect of tsunami emergency response?	Is support required to develop/improve this aspect of tsunami emergency response in your SOP?	Is support required to develop Human Resources in this aspect of tsunami emergency response?	Is support required to develop infrastructure for this aspect of tsunami emergency response?
24/7 Emergency Operation Centre (EOC)	Yes	Yes	Yes	Yes
Receiving information from the NTWC	Yes	Yes	Yes	Yes
Response Criteria / decision making	Yes	Yes	Yes	Yes

Q96

11b) For each of the (downstream) emergency response issues listed below (in rows), consider the four questions (in columns). Select a yes/no response using the drop-down menus.

	Does your SOP address this aspect of tsunami emergency response?	Is support required to develop/improve this aspect of tsunami emergency response in your SOP?	Is support required to develop Human Resources in this aspect of tsunami emergency response?	Is support required to develop infrastructure for this aspect of tsunami emergency response?
Warning dissemination	Yes	Yes	Yes	Yes
Evacuation call procedures	Yes	Yes	Yes	Yes
Community evacuation procedures	Yes	Yes	Yes	Yes
Communication with NTWC	Yes	Yes	Yes	Yes
Communication with Local Government	Yes	Yes	Yes	Yes
Media arrangements	Yes	Yes	Yes	Yes
Communication with other stakeholder i.e. Red Cross, Fire Brigade, Search and Rescue, Police, Army, Navy etc.	Yes	Yes	Yes	Yes

Q97 **Yes**

11c) Would your country be willing to share your SOPs with the IOTIC and other countries?

Page 30: PART IV: Evacuation Infrastructure

Q98

12a) Does your country have the following evacuation infrastructure? (select all that apply and detail specific areas). Please use the scroll bar below to view the entire table.

Evacuation shelter Comment:	Yes Coastal area of Bangladesh
Vertical evacuation structure Comment:	Yes Coastal area
Natural or artificial hill for vertical evacuation Comment:	Yes Chottogram, Cox's Bazar, Chandpur, Satkhira, Khulna, Bagerhat, Pirozpur, Jhalakati, Barguna, Patuakhali, Bhola, Lakshmipur, Noakhali, Feni etc
Evacuation signage Comment:	Yes Coastal area to go shelter
Other (please specify) Comment:	No response Chottogram, Cox's Bazar, Chandpur, Satkhira, Khulna, Bagerhat, Pirozpur, Jhalakati, Barguna, Patuakhali, Bhola, Lakshmipur, Noakhali, Feni etc. 14 districts

Q99 **Yes**

12b) Is your evacuation infrastructure integrated in the evacuation plan?

Page 31: PART IV: Tsunami Exercises

Q100 **National policy**

12c) Are tsunami exercises incorporated within national policies and guidelines? (select all that apply)

Q101 **National level,**
Regional level,
City level,
Village level,
Community/Neighbourhood level,
School level

12d) At what levels were the exercises conducted during the inter-sessional (between ICG meetings) period? (select all that apply)

Q102

12e) What kind of tsunami exercise activities have been undertaken in your country and how many times during the inter-sessional (between ICG Meetings) period?

Organisation table top exercise	Yes
Comment:	2 times
Inter-organisation table top exercise	Yes
Comment:	2 times
National tsunami drill/exercise	Yes
Comment:	1 time
Indian Ocean Wave exercise	Yes
Comment:	3 times
Local tsunami drill/exercise	Yes
Comment:	1 time
Other (please specify)	No

Page 32: PART IV: Public Awareness

Q103

National Disaster Management Office

13a) Who is responsible for tsunami public awareness programmes in your country?

Q104

13b) What tsunami related education and awareness materials do you have? (select all that apply)

- Leaflets or flyers,**
 - Posters,**
 - Booklets,**
 - Information boards,**
 - Tsunami Signage**
-

Q105

Yes

13c) Would your country be willing to share these education and awareness materials with the Indian Ocean Tsunami Information Centre (IOTIC) and other countries?

Q106

13d) Do you undertake the following tsunami awareness activities?

World Tsunami Awareness Day	No
Global Disaster Risk Reduction day	No
Public tsunami preparedness outreach	No
School and/or children awareness	No
Exhibitions	No
Competitions or other ways of highlighting tsunami safety	No
Tsunami Exercise	No
Other (Please specify)	No

Q107

13e) Use the boxes below to indicate any areas in which you require support from the IOTIC to develop or enhance public awareness in your country. If you do not require support, please leave blank.

Customisation of general materials to country or community
,
Development of tsunami awareness programmes, activities or campaigns
,
Participation/support by international agencies or experts to your country's activities
,
Provision of general tsunami awareness materials

Q108

13f) Can your country offer support to other Member States to develop or enhance public awareness in their country?

Yes (please specify what type of support):
Training

Page 33: PART V: UNESCO-IOC Tsunami Ready Recognition Programme (TRRP)

Q109

14a) Does your country have an interest to participate in the UNESCO-IOC TRRP?

Yes, we are already participating

Q110

14b) Aside from UNESCO-IOC TRRP, is your country currently implementing any other tsunami resilience and preparedness related initiatives or programmes?

No

Q111

14c) What number of villages, cities/districts and provinces/state levels in your country are at risk to tsunami?

City / District **14**

Q112	Yes
14d) Does your country have a National Tsunami Ready Board (NTRB)The National Tsunami Ready Board (NTRB) is responsible for guiding the community on the steps for Tsunami Ready recognition and for the review and approval of the community's Tsunami Ready application. It consists of designated representatives of the National Emergency Management Agency or Disaster Mangement Office, NTWC, TNC, the scientific community, and other invited guests.	
Q113	
14e) Which institution(s) should be involved in the implementation of TRRP or similar national initiative? (please use a comma between the name of the institutions)	
Department of Disaster Management, Coast Guard, Armed Forces Division	
Q114	Yes (please list the names of the communities below),
14f) Are any communities (for example, villages, cities, districts, provinces or states) in your country currently working towards implementing or interested in implementing the UNESCO-IOC TRRP or similar national initiative?	Names of the communities working towards or interested in working towards TRRP: Department of Disaster Management, Coast Guard, Armed Forces Division
Q115	No
14g) Have any communities in your country achieved recognition through UNESCO-IOC TRRP or similar national initiative?	
Page 34: PART V: UNESCO-IOC Tsunami Ready Recognition Programme (TRRP)	
Q116	Yes, it can be partially done through mobilising national experts and funding, but also needs some international technical expertise
15a) Is there national capacity to develop tsunami hazard maps?	
Q117	Yes, it can be partially done through mobilising national experts and funding, but also needs some international technical expertise
15b) Is there national capacity to train the community on identifying and estimating the number of people that live in the tsunami hazard zone?	
Q118	Yes, it can be partially done through mobilising national experts and funding, but also needs some international technical expertise
15c) Is there national capacity to train the community on the inventory of available economic, instrastructural, political, and social resources to reduce tsunami risk at the community level?	

Q119 15d) Is there national capacity to work with the community to develop tsunami evacuation maps, plans and procedures at the community level?	Yes, it can be partially done through mobilising national experts and funding, but also needs some international technical expertise
Q120 15e) Is there national capacity to work with the community to develop a public display of tsunami information?	Yes, it can be partially done through mobilising national experts and funding, but also needs some international technical expertise
Q121 15f) Is there national capacity to work with the community to develop local context outreach and public education materials?	Yes, it can be partially done through mobilising national experts and funding, but also needs some international technical expertise
Q122 15g) Is there national capacity to train and build capacity of community to be able to organise and implement outreach and education activity?	Yes, it can be partially done through mobilising national experts and funding, but also needs some international technical expertise
Q123 15h) Is there national capacity to train and build capacity of community to be able to organise and implement tsunami exercises?	Yes, it can be partially done through mobilising national experts and funding, but also needs some international technical expertise
Q124 15i) Is there national capacity to train and build capacity of communities to be able to develop their community Emergency Operation Plan?	Yes, it can be partially done through mobilising national experts and funding, but also needs some international technical expertise
Q125 15j) Is there national capacity to train and build capacity of communities to manage 24/7 tsunami emergency response operation?	Yes, it can be partially done through mobilising national experts and funding, but also needs some international technical expertise
Q126 15k) Is there national capacity to train and work with the communities to develop mechanisms (means and procedures) to receive 24/7 warning?	Yes, it can be partially done through mobilising national experts and funding, but also needs some international technical expertise
Q127 15l) Is there national capacity to train and work with the communities to develop mechanisms (means and procedures) to disseminate 24/7 warning to the community?	Yes, it can be partially done through mobilising national experts and funding, but also needs some international technical expertise

Page 35: PART V: UNESCO-IOC Tsunami Ready Recognition Programme (TRRP)

Q128

None of the above

15m) Which of the following challenges inhibit the implementation of TRRP or similar national initiatives in your country? (select all that apply)

Page 36: PART VI: Narrative

Q129

16) Please briefly describe any innovations or modifications to national tsunami warning and mitigation procedures or operations since the last reassessment. For example, this might include tsunami related research projects, implementation of new seismic and/or sea level monitoring technologies, tsunami mitigation activities and best practices (especially in preparedness and emergency management), as well as public education programmes or other measures taken to heighten awareness of the tsunami hazard and risk.

Bangladesh Meteorological Department (BMD) is responsible for earthquake and Tsunami monitoring. At present, Bangladesh Meteorological Department has 13 broadband seismic stations within a network. BMD intends to design a project on strengthening the existing seismic network or smart earthquake monitoring system in Bangladesh. Now BMD needs development of personnel.

Q130

17) Please provide a brief summary of plans for future tsunami warning and mitigation system improvements

Bangladesh Meteorological Department intends to design a project on strengthening the existing seismic network or smart earthquake monitoring system in Bangladesh. BMD also intends to design for installation a sea level monitoring network for closely monitor local Tsunami in future.

Q131

18) Please list areas where your country would like support for targeted capacity development.

To strengthen the seismic and Tsunami monitoring network of BMD, to build capacity of BMD personnel for analyzing of seismic data, tide gauge data more smoothly, Tsunami modeling, training etc.

Q132

Respondent skipped this question

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