



NATIONAL REPORT OF BANGLADESH

19TH NORTH INDIAN OCEAN HYDROGRAPHIC COMMISSION
(NIOHC) MEETING

Muscat, Oman

25-28 March 2019

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NATIONAL REPORT OF BANGLADESH

1. Hydrographic Office/ Services

1.1 Bangladesh Navy Hydrographic Department (BNHD) is vested with the responsibility of hydrographic survey in the coastal and offshore area of Bangladesh. Besides, Bangladesh Inland Water Transport Authority (BIWTA) conducts surveys for inland waters. The BNHD consists of a fleet of five survey ships and craft, Bangladesh Navy Hydrographic and Oceanographic Center (BNHOC) and BN Hydrographic School. The Directorate of Hydrography at the Naval Headquarters is the national representative of Bangladesh to International Hydrographic Organization (IHO) and exercise functional authority over BNHD.

1.2 All the hydrographic activities of the country are coordinated through National Hydrographic Committee (NHC). NHC addresses the hydrographic and other related activities at the national level. Different ministries and stakeholders are the members of NHC. The Assistant Chief of Naval Staff (Operations) of Bangladesh navy is the Chairman of that Committee.



BN Hydrographic and Oceanographic Centre at Chittagong

2. Surveys

2.1. **Survey Fleet.** BNHD carries out survey operations with the help of her survey fleet which comprises of a purpose built deep sea survey vessel namely BNS ANUSHANDHAN (EX HMS ROEBUCK), two offshore survey vessels namely BNS SHAIBAL and BNS AGRADOOT and two coastal survey crafts. The ships are fitted with modern hydrographic equipment for carrying out effective survey operations.



BN Hydrographic Fleet

2.2 **Coverage of New Surveys.** Bangladesh Navy (BN) survey fleet carry out hydrographic survey operations every year as per the annual survey programme. Directorate of Hydrography promulgates annual survey programme considering national maritime interest pertaining to navigational safety. Due to the dynamic nature of coastal area, BNHD has to continue regular updating of national and INT series charts to ensure safe navigation. In 2017-2018, hydrographic survey was conducted to acquire bathymetry for 01 in no INT and 13 in no national series charts. In current survey season (2018-2019), hydrographic survey is in progress to update 30 national and INT series charts. Several other hydrographic surveys have also been conducted in coastal areas to support various development projects. Hydrographic departments of BIWTA (Bangladesh Inland Water Transport Authority) and other port authorities have conducted hydrographic surveys at their own area of jurisdiction i.e. ports, harbours and inland waterways to support safe navigation.

2.3 **New Technologies or Equipment.** BN is in progress of acquiring following equipment in 2018-2019:

- a. Shallow Water Multibeam Echo Sounder
- b. Side Scan Sonar
- c. Single Beam Echo Sounder
- d. Auto Tide Gauge
- e. Total Station
- f. Various Hydrographic and Cartographic Software

2.4. **Crowd-Sourced Bathymetry.** Bangladesh welcomes the idea of crowd-sourced bathymetry (CSB). However, the coastal area of Bangladesh is very dynamic and the depth changes very frequently. As such, incorporating the CSB is very difficult for nautical charting in Bangladesh coastal waters.

2.5 **New Ships.** Presently, 02 X catamaran type Hydrographic Survey Vessels and 02 X Survey Boats are under construction at Khulna Shipyard Limited, Khulna, Bangladesh which is scheduled to be handed over by April and July 2019 respectively. These vessels/boats are planned to be equipped with MBES and other state of the art hydrographic survey equipment. These newly built survey vessels will replace the age old survey craft i.e. BNS DARSHAK and BNS TALLASHI.



BN Survey Activities

2.6 **Problems Encountered.** Bangladesh coastal area is very dynamic due to the presence of Ganges deltaic system. Frequent changes occur in seabed morphology. As such, frequent survey operations are required to update the nautical charts. While planning survey programme, the entire area of a chart needs to be considered. As the depth changes rapidly in the coastal area, cartographers face difficulties in matching data which are collected at different times.

2.7 Detailed information about surveys to update IHO Publications P-5 (Yearbook) and C-55 (Status of Hydrographic Surveying and Charting Worldwide) is attached in Annexes A and B respectively.

3. New Charts and Updates

3.1 **ENCs.** ENC cells for all 9 INT series charts which are allocated to Bangladesh are prepared. Verification and validation is also completed. BNHD will make those ENCs available for distribution through IC-ENC soon. Besides, the preparation of ENCs for National series paper charts is in progress. The list of ENC cells which are already prepared are given below:

Ser	ENC CELL NO	INT NO	BD NO	Title
1.	BD307425	INT7425	35001	Malancha River to St. Martin's Island
2.	BD407426	INT7426	5001	Approaches to Hiran Point
3.	BD507427	INT7427	3001	Chattogram Harbour
4.	BD407428	INT7428	7510	Approaches to Chattogram
5.	BD407429	INT7429	7511	Elephant Point to Matarbari Island
6.	BD57451A BD57451B	INT7451	2508	Pussur River - Monkey Point to Mongla Port
7.	BD57452A BD57452B	INT7452	3004	Trikona Island to Monkey Point
8.	BD507453	INT7453	3002	Payra Harbour
9.	BD407454	INT7454	7504	Approaches to Payra Harbour

3.2 **ENC Distribution Method.** BN has already signed 'Intent to Join IC-ENC' document for the distribution of her ENCs to world mariners through IC-ENC. In this regard, a Memorandum of Understanding will be signed soon. UKHO is producing and distributing the ENCs of Bangladesh waters for the interim period.

3.3 **RNCs.** Presently, UKHO is producing RNCs of Bangladesh waters.

3.4 **INT Charts.** BNHD has prepared all the allocated 09 INT Charts of Bangladesh waters. These charts were submitted to NICCWG Coordinator before NIOHC18. After the meeting of NIOHC18, BN received observations/comments on 09 INT Charts from India, France and UK. BN has incorporated all necessary corrections as per the observations made and requested NICCWG Coordinator to accord necessary clearance. Till now, NICCWG Coordinator has not cleared those charts. However, considering the requirement of safe navigation, these INT Charts are required to be published for the distribution to the world mariners as soon as possible. The list of INT charts is shown below.

Ser	Chart No	Title
1.	INT 7425	Malancha River to Saint Martin's Island
2.	INT 7426	Approaches to Hiran point
3.	INT 7427	Chattogram Harbour
4.	INT 7428	Approaches to Chattogram
5.	INT 7429	Elephant Point to Matarbari Island
6.	INT 7451	A. Pussur River – Monkey Point to Joyman Reach B. Pussur River – Joyman Reach to Mongla Port
7.	INT 7452	A. Pussur River - Trikona Island to GhusaingariKhal B. Pussur River - GhusaingariKhal to Monkey Point
8.	INT 7453	Payra Harbour
9.	INT 7454	Approaches to Payra Harbour

3.5 **National Paper Charts.** In the Year 2018, BNHD published 04 paper charts (New Chart) and 02 paper charts (New Edition). Three new charts, 05 new edition charts and 01 Port Approach Guide (PAG) chart is in process of publishing. The list of published charts and their details is given below:

Ser	Chart No	Title	Edition No	Edition Date
1.	25001	Hariabhanga River to Hatia Island	1(NC)	11 Jan 2018
2.	3510	Urir Char and Adjoining Area	1(NC)	20 Aug 2018
3.	3507	Approaches to Sangu River	1(NC)	29 Nov 2018
4.	3534	Foul Point to Chunkuri Khal	1(NC)	19 Dec 2018
5.	7501	Hariabhangato Malancha River	2(NE)	19 Jul 2018
6.	7509	Chattogram to Feni River	3(NE)	20 Aug 2018
7.	3522	Approaches to Andarmanik River	3(NE)	In progress
8.	3523	Approaches to Haringhata River	3(NE)	In progress
9.	3524	Supati to Busswar River	3(NE)	In progress
10.	3525	Approaches to Bhangra River	2(NE)	In progress
11.	7514	Cox's Bazar to Kutubdia	1(NC)	In progress
12.	3512	Hatia Channel- Bhasan Char to South Hatia Island	1(NC)	In progress
13.	3513	East Coast of South Hatia Island	1(NC)	In progress
14.	7503	Bhangra River to Buriswar River	2(NE)	In progress

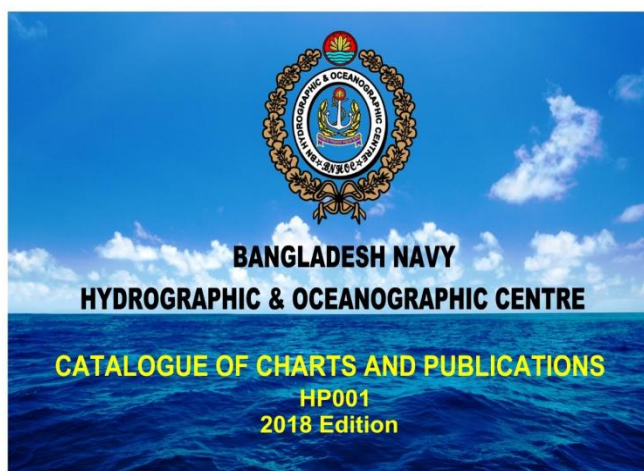
*N.B: NC = New Chart, NE = New Edition

3.6 To flourish the scope of Blue Economy, Bangladesh Government has taken up numerous coastal developments and offshore installation projects around the coast. As such, national chart scheme is being reviewed.

4. New Publication & Updates

4.1 Newly published publications in the year 2019 are given below:

Ser	Publication No	Name of Publication	Remarks
1.	H 001	Catalogue of Bangladesh Navy Charts and Publications	Updated
2.	H 002	Bangladesh Navy Tide Tables-2019	New
3.	H 003	BN Paper Chart Maintenance Record	Updated
4.	-	BN Annual Summary of Notices to Mariners - 2018	New



4.2 **Means of Delivery.** Presently all publications are available in paper format only. These charts and publications can be collected from the following address:

Officer In-Charge
Bangladesh Navy Hydrographic and Oceanographic Center (BNHOC)
New Mooring, Chattogram
Bangladesh
E-mail: bnhoc@navy.mil.bd
Cell: +8801769724174

5. **Maritime Safety Information (MSI)**

5.1 **Existing Infrastructure for Maritime Safety Information.** Notices to Mariners related to the safe navigation in Bangladesh waters are being issued by Department of Shipping regularly. These notices are widely circulated by both paper and digital means.

a. **Medium Used for Transmission of Navigational Warning.** Navigational warnings are transmitted as Notices to Mariners (NTM) to all maritime agencies through letter, e-mail, fax and EGC message.

b. **Schedule and Frequency for Transmission of Navigational Warning.** Navigational warnings are transmitted regularly through VHF channels from sea ports. The transmission schedule is appended below:

Port Authority	VHF Channel	Time (Local)
Chattogram Port Authority	16/12	0600, 1800
Mongla Port Authority	16/14	0800/2000
Payra Port Authority	16/12	0700/1900

c. **Schedule and Frequency for Transmission of Meteorological Warning.** Meteorological warnings are prepared by Bangladesh Meteorological Department and they send those to all government offices. The concerned warnings applicable for vessels plying in inland water route as well as coastal areas are transmitted to the concerned district headquarters for further transmission in maritime sectors. Bangladesh Radio also transmits weather warnings. Moreover, the updates about weather warnings are also available in mobile applications.

d. **NTM Distribution System.** NTM is issued by Department of Shipping after scrutinizing all the collected information from different sources. Besides, Bangladesh Navy issues NTM for their vessels. Chattogram, Mongla and Payra port authorities issue notices locally through VHF for the vessels navigating in coastal waters.

5.2 **NAVTEX Coverage.** At present there is no NAVTEX Station in Bangladesh. Navigational Warnings are transmitted with the help of NAVAREA coordinator India as part of NAVAREA VIII.

5.3 **Website for NTM and other Warnings.** All the updated warnings including the Notices to Mariners are available on Department of Shipping website (www.dos.gov.bd).

5.4 **Future Plan for MSI.** A project named 'Establishment of Global Maritime Distress and Safety System and Integrated Maritime Navigation System (EGIMNS)' is in progress. Under this project seven coastal radar stations including NAVTEX station will be installed in the coastal area of Bangladesh. The NAVTEX station is expected to start transmission by 2021.

5.5 **Problems Encountered.** Nil.

6. **C-55**

6.1 The Updated C-55 tables is attached as Annex B to this report.

7. **Capacity Building**

7.1 **Training Conducted.** The Basic Hydrographic Course conducted by BN Hydrographic School is recognized by IBSC as Category 'B'. The recognition is valid up to 2020. Apart from BN officers and sailors, BN Hydrographic School also provides training to IHO Member States' trainees as well as personnel from non-military survey agencies of the country. Other than BN Hydrographic School, BNHOC also conducts refresher and professional training for survey recorders and cartographers. A summary of training courses conducted in 2018 is listed below:

Ser	Name of Course	Duration	No of Trainees
BN Hydrographic School			
1.	Basic Hydrography Course (Cat-B)	26 Weeks	02
2.	SR-I 'Q' 2018	25 Weeks	10
3.	SR-II 'Q' 2018	24 Weeks	11
4.	SR-III 'Q' 2018	23 Weeks	16
BNHOC			
5.	SonarWiz Software Training	05 Days	08
6.	Training on Data Acquisition and Processing (MBES) Refresher Course	04 weeks	15
7.	Current Profiler Sontek (ADP) Training	03 Days	12
8.	6 Bottles Water Sampler with CTD	05 Days	09

7.2. **Training Received.** In 2018, BNHD received number of training courses to train her officers and sailors. On successful completion of training, all personnel are employed in different hydrographic units to implement their theoretical knowledge in practical field. Following table shows the status of training received by CB project and bilateral agreements between BN and other foreign hydrographic organizations:

Ser	Participation in Training / Course	Duration	Trainee	Sponsor
1.	CAT-B Hydrography Course	07 months	01	India
2.	Long Hydrography Course (CAT-A)	10 months	02	India
3.	SR-I Qualified Course	05 months	02	India

7.3 **Training Needed.** By carefully assessing the strength and weakness on BNHD and by foreseeing the requirement of coming days; it is ascertained that Bangladesh needs further assistance for hydrographic capacity building through training. Some fields where international/IHO/CBSC training will be most beneficial for BNHD are as follows:

- a. Category A training in Hydrography.
- b. Category B training in Hydrography and Cartography.
- c. ENC Production, Verification and Validation.
- d. Hydrographic Database Management.
- e. Marine Spatial Data Infrastructure.
- f. Multibeam data processing.
- g. Ocean Data Acquisition.
- h. Offshore Industrial Survey.

7.4 **Status of National, Bilateral, Multilateral or Regional Development.** BN and UKHO have renewed a MOU regarding the production and distribution of Nautical Charts and ENCs for five years which is valid till 2020. An “Intent to Join IC-ENC” document is signed between BN and IC-ENC for ENC distribution to world mariners.

8. **Oceanographic Activities**

8.1 After the settlement of our maritime boundary with neighbours, Bangladesh has given special emphasis on oceanographic research activities. Bangladesh Government is planning to acquire an Oceanographic Research Vessel. BN Officers are also undergoing higher study on Oceanography in various institutions of Bangladesh including Bangabandhu Sheikh Mujibur Rahman Maritime University, Dhaka University, etc. Since other Bangladeshi universities and research organizations are not capable to proceed to sea due to unavailability of vessels, Bangladesh Navy provides assistance with suitable platforms. BNHD always remains supportive to oceanographic researchers to ensure that they get maximum opportunity to carryout research activities for acquiring better knowledge about the marine environment.

8.2 **Tide Gauge Network.** National Hydrographic Committee formed a committee to identify the feasibility of installation for tide gauge network along the coastal belt of Bangladesh. Presently, BIWTA, Bangladesh Navy, Survey of Bangladesh, Sea Port Authorities (Chattogram, Mongla and Payra) have their own tide gauges along the coastal area. These gauges are being modernized and the tidal data will be collected through GSM procedure. These data will be published in the organizations’ websites.

8.3 **New Equipment.** BN has procured a CTD with 06 bottles (Rosette) water samplers.

8.4 **Problem Encountered.** Nil.

9. **Other Activities**

9.1 **Participation in IHO Working Group.** Bangladesh attended HSSC10 meeting held on 14 – 17 May 2018 at Rostock, Germany.

9.2 **Meteorological Data Collection.** Bangladesh Meteorological Department (BMD) collects meteorological data all over Bangladesh including the coastal belt. BMD publishes weather bulletins, special weather bulletins, cyclone warnings, and river warnings including sea bulletins of the Bay of Bengal.

9.3 **Disaster Prevention.** In Bangladesh, Ministry of Disaster Management and Relief works on the disaster prevention activities in close coordination with Armed Forces Division.

9.4 **MSDI Progress.** Recently, a training programme on national Marine Spatial Planning (MSP) was organised by Blue Economy Cell of Ministry of Power, Energy and Mineral Resources at Dhaka. Participants from different stakeholders/organisations took part in the training programme.

9.5 **Celebration of World Hydrography Day.** BN celebrated the World Hydrography Day (WHD) 2018. On this occasion, a day-long seminar was organised for awareness building on hydrography at port city Chattogram. Rear Admiral Mohammad Makbul Hossain, OSP, BCGMS, ndu, psc the Assistant Chief of Naval Staff (Operations) and the Chair of National Hydrographic Committee graced the occasion as Chief Guest. Personnel from all related maritime agencies, port authorities, ministries of the government were invited at the seminar. The theme of the WHD 2018 “Bathymetry – the foundation for sustainable seas, oceans and waterways” reached to majority population of the country through mobile company operators’ general SMS system.

9.6 **Use of Risk to Support Survey and Chart Updating Priorities.** Bangladesh always considers the shipping safety for navigation at her coastal area. International and domestic shipping routes get priorities while planning the survey. BNHD puts all out efforts to keep the navigational channels/lanes safe. Any incident happened in port limit area, the port authorities take necessary actions for safe navigation without any delay.

10. **Conclusion**

10.1 BNHD has recently achieved the working knowledge on ENC production. She has already prepared ENCs of 09 INT Charts. These ENCs are well validated and will be soon distributed through IC-ENC. However, BNHD needs further training on ENC production for developing more expertise.

10.2 Bangladesh has prepared 09 INT Charts of her waters. These charts are required to be distributed to the world mariners for international shipping at the earliest. In this regard, Bangladesh is waiting for the clearance of NICCWG Coordinator at the earliest without making any further delay.

10.3 As a coastal nation, Bangladesh is fully aware of the importance of hydrography. In recent years, the Government of the Peoples' Republic of Bangladesh has given due importance in developing sustainable Blue Economy to improve the lives of people. To underpin the need for sustainable development, a nationwide importance of Hydrography has been acknowledged. In addition to providing valuable service to Bangladesh's maritime sector, BNHD has been active to promote regional co-operation in the field of hydrography. BNHD wants to contribute to Blue Economy through sustainable use of our marine resources. To be able to contribute better, BNHD is constantly pursuing to improve her hydrographic capacity. BNHD expects that countries and organizations in this part of the world will co-operate each other to make our water safe for navigation and free from environmental degradation. Besides, BNHD is also ready to share her expertise and experience with other Member States for mutual benefit. BNHD is confident to make her hydrographic department resourceful and skillful with IHO and NIOHC's support and co-operation.

Annexes:

- A. Updated information on Bangladesh for P-5 - 02 (Two) page.
- B. Updated survey information on Bangladesh for C-55 - 01 (One) pages.
- C. National MSI Self-Assessment - 02 (Two) pages.

BANGLADESH / BANGLADESH

Official Representative to IHO (as designated by Member Government)
Représentant officiel à l'OHI (tel que désigné par le Gouvernement Membre)

DIRECTORATE OF HYDROGRAPHY Operations Branch Naval Headquarters Banani, Dhaka-1213 Bangladesh	
Department of which the Hydrographic Office is part- <i>Ministère dont dépend le Service Hydrographique-Ministerio del que depende el Servicio Hidrográfico</i>	Bangladesh Navy, Ministry of Defence
Principal functions of the H.O. – <i>Attributions principales du S.H.- Principales funciones del S.H.</i>	Conduct or supervision of all hydrographic surveys undertaken in the coastal and sea area of Bangladesh, production of nautical charts, ENCs and publications.
National day- <i>Fête nationale-Fiesta</i>	26 March
Telephone: Cell: Fax:	+8802 9835184 +8801769702170 +88029836270
E-mail: Website:	dhydro@navy.mil.bd http://www.navy.mil.bd
Date of establishment and Relevant National Legislation- <i>Datede fondation et législation nationale concernée-</i> <i>Fecha de establecimiento y Leyes nacionales de referencia</i>	Hydrographic Surveys and Preparation of Navigational Charts : 12 May 1983 by Official Gazette from the Government of Bangladesh National Hydrographic Committee: 23 September 2001 by Official Gazette from the Government of Bangladesh
Name and rank of the Director or Head- <i>Nom et grade du directeur-Apellidos y graduación del Director</i>	Rear Admiral M Makbul Hossain, NBP, OSP, BCGMS, ndu, psc Chairman, National Hydrographic Committee Captain Sheikh Firoz Ahmed, (H1), NGP, psc, BN Director Hydrography, Bangladesh Navy
Tonnage- <i>Tonelaje</i>	902558 tons (2017)
Total Budget- <i>Budget total-Presupuesto Total</i>	-
Staff employed- <i>Effectifs-Plantilla</i>	212
N° of charts published- <i>Nombres de cartes publiées- N° de cartas publicada.</i>	50
N° of INT charts published- <i>Nombres</i>	09 INT charts are under the process of

<i>cartes INT publiées- N° de cartas INT publicadas.</i>	NICCWG's clearance.		
N° of ENC cells published - <i>Nombres de cellules ENC publiées- N° de células ENC publicadas.</i>	ENC cells for 09 INT charts are already prepared and validated. Those will be distributed by IC-ENC soon. However, presently the ENC of Bangladesh waters are being published by UKHO for the interim period.		
N° of Raster charts published - <i>Nombres de cartes matricielles publiées-N° de cartas Ráster publicadas.</i>	Raster charts of Bangladesh waters are being published by UKHO.		
Type of publications produced (e.g. Tide Tables, Sailing Directions, List of Lights etc.) - <i>Type de publications produites (par ex: Tables des marées, Instructions nautiques, Livres des Feux, etc.-Tipode publicaciones producidas(porej: Tablasde mareas, Derroteros, Librosde Faros</i>	BN Chart Catalogue(HP001) – Regularly updated BN Tide Table(HP002) – Yearly BN Chart Maintenance Record(HP003) Annual Summary of Notices to Mariners - Yearly		
Surveying vessels/Aircraft - <i>Batiments hydrographiques/aeronefs–Buques hidrographicos/Aeronaves</i>	Displacement (tons)	Date Launched	Crew
BNSANUSHANDHAN	1432	2010	128
BNSSHAIBAL	720	1997	97
BNSAGRADOOT	687	2002	90
BNSTALLASHI	83	1983	50
BNSDARSHAK	83	1983	44

Annex B

Input to the IHO Publication C-55
(Status of Hydrographic Surveying and Charting Worldwide)

Country: BANGLADESH

C-55 Summary for:				The complete revised INT chart scheme of Bangladesh has been placed in INT Web Chart Catalogue S-11 Part B. Bangladesh has prepared all 09 INT Charts as per the scheme. These charts are sent for clearance from NICCWG.
Country:	BANGLADESH			
Country ISO Code:	BGD			
Country Sub Code:	-			
INT Region:	J			
Country/ Depend:	-			
Last Updated:	March 2018			
Provided By:	Bangladesh Navy Hydrographic Department (BNHD)			
Chart Coverage	Passage (%)	Coastal (%)	Port (%)	Comments on Surveys: Bangladesh waters in the Bay of Bengal are well surveyed. The navigational routes for international shipping are 100% surveyed and being resurveyed at regular intervals for necessary updates. The coastal area of Bangladesh is very dynamic due to the presence of delta. As such, keeping the chart scheme updated is a challenging task. Yet, the charts covering the navigational routes are re-surveyed as and when required to accommodate changes.
INT	100	100	100	
RNC	100	100	100	
ENC	100	100	100	
Status of paper Charts				
Paper charts with depths in meters (%)			100	
Paper charts referenced to a satellite datum (%)			100	
Status of surveys	Adequate (%)	Resurvey (%)	No Survey (%)	
0-200m	100	5	0	
>200	100	5	0	

MSI	Y/N	Comments on MSI:
Local Warning	Y	At present Department of Shipping is working on MSI issues in Bangladesh with the help of other maritime organizations. Regular broadcasting of local warning, navigational warning, port warning are done.
Coastal Warning	Y	
Nav Warning	Y	
Port Warning	Y	
GMDSS	Y/N	Comments on GMDSS:
Master Plan	Y	There is an ongoing plan to improve the GMDSS infrastructure of Bangladesh. A project named 'Establishment of Global Maritime Distress and Safety System and Integrated Maritime Navigation System (EGIMNS)' is in progress. Under this project, seven coastal radar stations including NAVTEX station will be installed in the coastal area of Bangladesh. The NAVTEX station is expected to start transmission by 2021.
Area A1	Y	
Area A2	Y	
Area A3	Y	
NAVTEX	Y	
Safety Net	N	

National MSI Self-Assessment

Country: BANGLADESH
 Organization: Department of Shipping, Bangladesh

1. Maritime Area. In light of the judgment of 14 March 2012 by the International Tribunal for the Law of the Sea (ITLOS), Hamburg, Germany on the Dispute Concerning Maritime Boundary between Bangladesh and Myanmar in the Bay of Bengal and in the light of the award of 07 July, 2014 of the Arbitral Tribunal in the matter of the Bay of Bengal Maritime Boundary Arbitration between Bangladesh and India, the maritime boundaries of Bangladesh is demarcated. Bangladesh government has also published an official gazette on 14 January 2015 which described the maritime area of Bangladesh. As per that gazette Bangladesh has an area of total 1,18,813sq km EEZ.

2. Operational Points of Contact for the National Coordinator.

INSTITUTION	TELEPHONE	FACSIMILE	EMAIL
Department of Shipping, Bangladesh	+88029513305	+88029587301	info@dos.gov.bd

3. GMDSS Master Plan.

[Report on the status of the GMDSS master plan: Is it up to date? When was the last update?] [Specifics of equipment used and software version with date up-dated]

A project named 'Establishment of Global Maritime Distress and Safety System and Integrated Maritime Navigation System (EGIMNS)' is in progress. Under this project seven coastal radar stations including NAVTEX station will be installed in the coastal area of Bangladesh. The NAVTEX station is expected to start transmission by 2021.

[Detail the number of warning identifies as immediate priority (requiring transmission within 30 minutes) and the average elapsed time for passing to NAVAREA coordinator, as reported to the last RHC meeting]:

Year Y-2		Year Y-1		Year Y	
Total	Average elapsed time	Total	Average elapsed time	Total	Average elapsed time
xx	xx.xMins	xx	xx.xMins	xx	xx.xMins

4. NAVTEX Coverage.

[Diagram of NAVTEX stations and service area within maritime area; Contact details for NAVTEX Stations; confirm operational status has been validated.]

At present there is no NAVTEX Station in Bangladesh. Navigational Warnings are transmitted with the help of NAVAREA coordinator India as part of NAVAREA VIII.

5. Operational Issues.

[New infrastructure in accordance with GMDSS Master Plan; Problems encountered?]

NA

6. Contingency Planning.

[Provide information regarding contingency plans that have been established and future plans where appropriate. Also report on any testing of the plan that has been conducted]

NA

7. Capacity Building.

[Demands for Capacity Building, Training requested or received, any offered, status of national, bilateral, multilateral or regional development projects with MSI component]

NA

8. Other Activities.

[Participation in other IHO or IMO Working Groups, Regional Hydrographic Commissions, regional conferences related to MSI over past year]

NA

9. National Maritime Website.

Department of Shipping

BIWTA Bhaban (8th Floor), 141-143 Motijheel C/A
Dhaka 1000, Bangladesh, Phone : +880 2 9513305
Fax : +880 2 9587301, Email : info@dos.gov.bd
Website : <http://www.dos.gov.bd>

The date and time of the last update is shown in the website.

10. Recommendations. Few training program can be arranged to improve the skill of the men working in MSI sector and to develop the present MSI infrastructure.

11. Summary. At present Department of Shipping is working on MSI issues in Bangladesh with the help of other maritime organizations. Few good practices like broadcasting local warning, navigational warning, port warning are followed. There is a master plan to improve the GMDSS infrastructure. Implementation of a project named 'Establishment of Global Maritime Distress and Safety System and Integrated Maritime Navigation System (EGIMNS)' is in progress. Under this project, seven coastal radar stations including NAVTEX station will be installed in the coastal area of Bangladesh. The NAVTEX station is expected to start transmission by 2021. At present there is no NAVTEX Station in Bangladesh. Navigational Warnings are transmitted with the help of NAVAREA coordinator India as part of NAVAREA VIII. However, Bangladesh needs to develop skilled manpower in this sector. So, international community/organizations may come forward and support Bangladesh in this regard.