



# **BANGLADESH NATIONAL REPORT**

For

17<sup>TH</sup> NORTH INDIAN OCEAN HYDROGRAPHIC  
COMMISSION (NIOHC) CONFERENCE

Cairo, Egypt  
17-20 July 2017

Page intentionally left blank

## 1. **Hydrographic Office/ Services**

1.1. Bangladesh Navy Hydrographic Department (BNHD) is vested with the responsibility of hydrographic survey of offshore area of Bangladesh and publication of nautical charts and publications for safe navigation at sea. Besides Bangladesh Inland Water Transport Authority (BIWTA) conduct surveys for inland waters. The BNHD consists of a fleet of five survey ships, 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.



**BN Hydrographic and Oceanographic Centre at Chittagong**

1.2. All the hydrographic activities of the country are coordinated through National Hydrographic Committee (NHC). NHC addresses the hydrographic and other maritime 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.

## 2. **Surveys**

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



Furthermore, among those two ships and one boat are fitted with Multi Beam Echo Sounder (MBES).

2.2. **Coverage of New Surveys.** Last year BNHD published 09 new edition charts. List of our new charts and new edition charts in the year 2016 is appended below:

Ser	Chart No	Title	Remarks
1.	INT 7428	Approaches to Chittagong	New Chart
2.	INT 7427	Chittagong Harbour	New Chart
3.	INT 7454	Approaches to Payra Harbour	New Chart
4.	INT 7453	Payra Harbour	New Chart
5.	BN 1252	Mongla Harbour	New Chart
6.	BN 1254	Silok Bazar to Kaptai	New Edition
7.	BN 3502	Teknaf and Adjoining Area	New Chart
8.	BN 3509	Sandwip Channel - Bhatiary to	New Chart

		Sitakunda	
9.	BN 7509	Chittagong Harbour	New Edition

2.3. **New Technologies or Equipment.** Bangladesh Navy has acquired following technologies/equipment:

- a. Deep Sea Multibeam Echo Sounder (Seabeam – 3030)
- b. Water Bottle Sampler with CTD
- c. Caris S-57 upgradation
- d. Vessel Mounted ADCP
- e. Current Profiler
- f. Auto Tide Gauge
- g. Grab Bottom Sampler
- h. Sound Velocimeter

2.4 **New Ships.** The construction of 02 coastal survey catamaran vessel is in progress in own shipyard of BN.

2.5 **Problems Encountered.**

2.5.1 Nil

3. **New Charts and Updates**

3.1. **ENCs.** BNHD has taken steps to produce ENC cell of Bangladesh water areas by June of 2018. BN has already prepared 03 in no ENC cells. Validation of these cells is in progress.

3.2 **End Distribution Method.** As per the guidance of S-65, ENCs will be distributed soon.

3.3 **RNCs.** NA

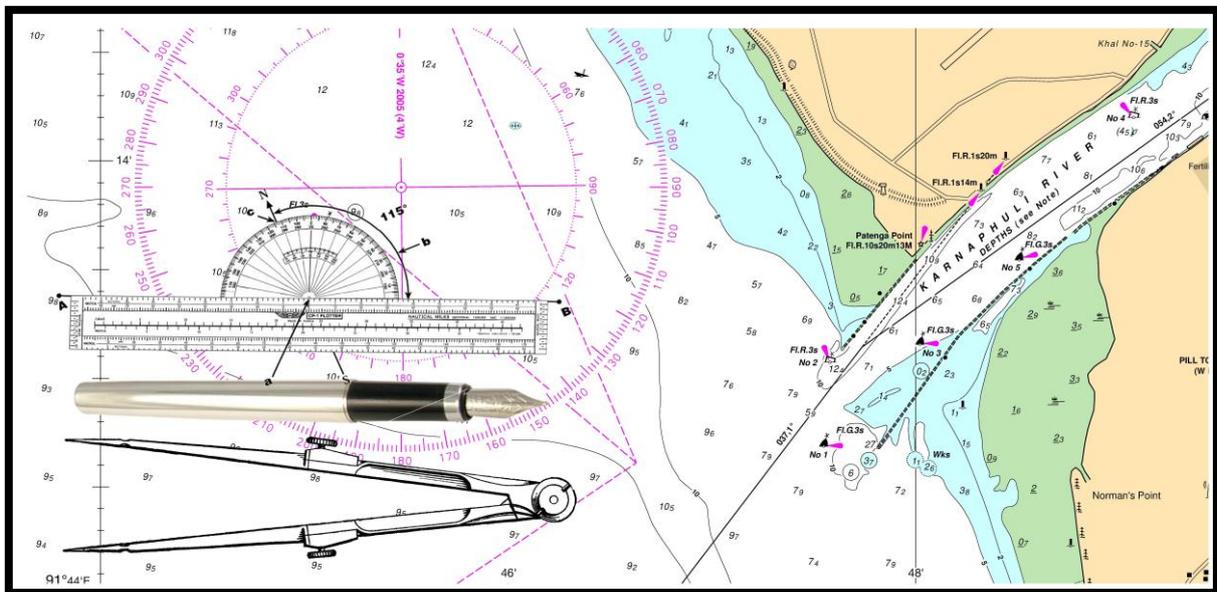
3.4 **INT Charts.** BNHD previously has published three INT charts (INT 7425, INT 7426 and INT 7428). Recently INT charts scheme has been revised. Comparatively a larger scale is being considered in the scheme to facilitate the mariners. The complete revised INT chart scheming of Bangladesh has been given in IHO publication S-11 Part B. Edition 3.0.0 January 2016. Bangladesh has published 05 INT Charts. All the charts will be published in due course of time. However, the dimensions of 02 INT Charts (7451 & 7452) require little adjustment. The approved list of new 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	Chittagong Harbour
4.	INT 7428	Approaches to Chittagong
5.	INT 7429	Elephant Point to Matarbari Island
6.	INT 7451	Plan A - Passur River – Monkey Point to Jaymani Reach Plan B - Passur River – Jaymani Reach to Mongla Port
7.	INT 7452	Plan A - Passur River –Tinkona Island to Ghusaingaria Khal Plan B- Passur River – Ghusaingaria Khal to Monkey Point
8.	INT 7453	Payra Harbour
9.	INT 7454	Approaches to Payra Harbour

3.5 **National Paper Chart.** A list of published & updated charts during the year 2016 is given below:

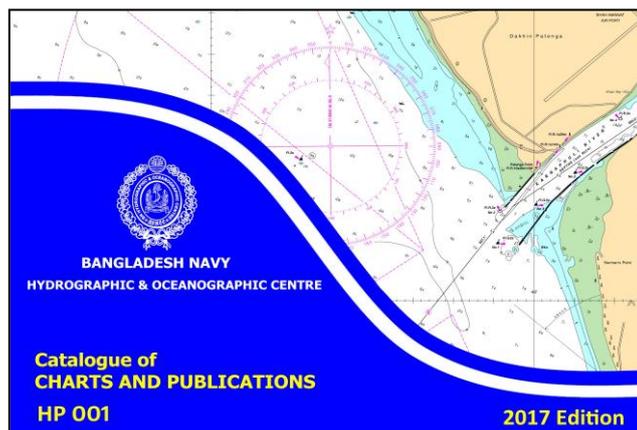
Ser	National Chart No	INT No	Title	Remarks
1.	7512	-	Teknaf to St. Martins Island	New Edition
2.	3522	-	Approaches to Andarmanik River	New Edition
3.	7509	-	Chittagong to Feni River	New Chart
4.	1254	-	Silok Bazar Kaptai	New Chart
5.	3509	-	Sandwip Channel- Bhatiary to Sitakunda	New Chart



#### 4. **New Publications & Updates**

4.1. In the year 2017 new publication and updates of our publication is 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-2017	New
3.	H 003	BN Paper Chart Maintenance Record	New
4.	-	BN Annual Summary of Notices to Mariners - 2017	New



4.2. Presently all publications are available in paper format only. We are also planning to make digital copy of our publication in forthcoming year.

## 5. Maritime Safety Information (MSI)

5.1 Notices to Mariners related to the safe navigation in Bangladesh water is being issued by Department of Shipping (DG Shipping) regularly. These notices are widely circulated by both paper and digital means. Radio navigational warnings are also transmitted twice daily. Besides BNHOC, Chittagong and Mongla port authorities issue notices locally.

## 6. C-55 (Updated Table)

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

## 7. Capacity Building

7.1. Training Received. Training received through IHO capacity building (CB) and bilateral agreement with other nations are as follows:

Ser	Course Training	CBC/Bilateral Agreement	Country	Duration	Participants
1.	ENC QA Course	CBC	Thailand	07 Days	01 Offr
2.	Data Management Training Course	CBC	India	06 Days	01 Offr
3.	Masters in Hydrography	Bilateral Agreement	France	02 Years	01 Offr
4.	Cartography Course (Cat B)	CBC	UK	15 Weeks	01 Offr
5.	Long Hydrography Course (Cat A)	Bilateral Agreement	India	34 Weeks	02 Offr
6.	Survey Recorder Course	Bilateral Agreement	India	17 Weeks	01 LS

#### 7.2. Training Required.

- a. Category - A Hydrography Course
- b. On Job Training on MBES
- c. Training on ENC production

7.3. Training Offered. BN conducts IHO Category - B Hydrographic course in BN Hydrographic School. Till date 14 foreign officers and 15 students from different maritime organization of the country participated. Besides, BN hydrographic School conducted following courses for the sailors. A good number of personnel from other maritime organizations like BIWTA, Chittagong Port Authority, Mongla Port Authority also participated in the courses.

Ser	Name of Course	Duration
1.	Survey Recorder I	28 Weeks
2.	Survey Recorder II	23 Weeks
3.	Survey Recorder III	23 Weeks
4.	BRCC SD, (X), (Hydro)	08 Weeks
5.	Cartography	12 Weeks

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 for next five years till 2020.

## 8 Celebration of World Hydrographic Day

8.1 BNHD celebrated "World Hydrography Day" on 21st June 2016 like every year. A seminar was arranged focussing the theme of the day – "Hydrography -the

key to well-managed seas and waterways”. High officials from different stake holders of the country presented their views in the seminar. Expanding working arena of hydrography beyond traditional nautical charting was discussed in the seminar. Different Maritime stakeholders of country attended the seminar and spoke very high about the contribution of hydrographic services for the national economy. A display was also arranged to acquaint the participants with different hydrographic products and equipment. Many ancient and modern hydrographic equipment were also displayed in the seminar. Participants got knowledge on how hydrographic activities transformed from manual era to digital era. Participants went through the display with intense curiosity. They could imagine the hardship that the hydrographers go through to make the water safe for the navigators. Both print and electronic media personnel were present in the seminar and gave wide coverage in various TV channels and national dailies.

8.2 BNHD celebrated the World Hydrography Day 2017. On this occasion, Rear Admiral Mohammad Makbul Hossain, OSP, BCGMS, ndu, psc the Assistant Chief of Naval Staff (Operations) and the Chair of National Hydrographic Committee has given a special written message for all the maritime stakeholders of the country. The theme of this year “Mapping our seas, oceans and waterways – more important than ever” is also reached to almost whole population of the country through mobile company operators’ general SMS system.

9. **Conclusion**. Bangladesh recognizes the importance of Hydrography in promoting the regional cooperation as well as the prosperity of the Nation. In spite of many constrains, BNHD is relentlessly working to provide updated nautical charts and other related information to the mariners. BNHD is putting her maximum efforts to develop her hydrographic surveying capabilities. Every year BNHD is trying to annex new equipment and technologies. However, BNHD still needs the assistance of friendly nations to develop human resources in this sector.

Bangladesh/ *Bangladesh*  
Official Representative to IHO (as designated by Member Government)

Director of Hydrography Operations Branch, Naval Headquarters Banani, Dhaka 1213	
Department of which the Hydrographic office is part	Bangladesh Navy, Ministry of Defence
Principal function of <b>H. O</b>	Conduct or supervision of all hydrographic surveys undertaken in the coastal and sea area of Bangladesh, production of nautical charts and advice to Ministries on all hydrographic matters.
National Day	26 March
Telephone: Cell: Fax: E-mail: Website:	+ 88 02 9858620 + 88 0201769702170 + 88 02 9836270, + 88 02 9885633 <a href="mailto:dhydro@navy.mil.bd">dhydro@navy.mil.bd</a> <a href="http://www.navy.mil.bd">www.navy.mil.bd</a>
Date of Establishment and relevant National Legislation:	Hydrographic School : 05 May 1983 1 <sup>st</sup> Hydrographic Vessel: 10 Nov 1983 Hydrographic Directorate: 1986 Bangladesh Navy Hydrographic & Oceanographic Center (BNHOC): 15 March 2001 National Hydrographic Committee: 23 September 2001
Name & Rank of the Director or Head	Rear Admiral M Makbul Hossain, OSP, BCGMS, ndu, psc Chairman, National Hydrographic Committee Commodore M I Haque, (H), NGP, ndc, psc, BN Director of Hydrography, Bangladesh Navy
Tonnage	902558 tons (2016)
Total Budget	
Staff Employed	Officers:60 Sailors: (Survey Recorder) 209 Civilian Personnel: 10

No of Charts Published	44		
No of INT charts Published	05		
No of ENC cells published	Nil		
No of Raster Charts Published	Nil		
Type of Publications produced (e.g. Tide Tables, Sailing Directions, List of Lights etc)	BN Chart Catalogue BN Tide Table(HP 002) –Yearly BN Chart Maintenance Record (HP 003)		
Surveying Vessel/ Aircraft	Displacement	Date Launched	Crew
BNS ANUSHANDHAN	1432	2010	151
BNS SHAIBAL	720	1997	70
BNS AGRADOOT	687	2002	70
BNS TALLASHI	83	1983	39
BNS DARSHAK	83	1983	39
Jarip Boat -11	10	1996	6
Jarip Boat - 22	10	1996	6

### IHO C-55: Composite Report by Nation

IHO	C-55:	Bangladesh					Updated		INT Region J	
<b>Status of Hydrographic Surveys</b>						A1/A2= %adequately surveyed 0-200m / > 200m B1/B2 = % requiring re-survey at larger scale or to modern standards 0-200m/>200m C1/C2 = % which has never been systematically surveyed 0-200m / >200m				
A1	A2	B1	B2	C1	C2					
100	100	5	0	0	0					
						<b>Comment</b>				
						Due to the presence of numerous fringing islands and shoals, 100% survey coverage has always been a challenge for BN Hydrographic Department. However the navigational routes are 100% surveyed and being updated periodically. Due to highly unstable seabed, keeping all the charts reasonably updated has become an exigent task. Yet, the charts covering the navigational routes are resurveyed at reasonable intervals.				
<b>Status of Nautical Charting</b>						A= % Covered by INT Charts, B = % covered by RNC, C = % covered by ENC.				
Offshore		Passage/ Small		Landfall	Coastal	Passage/ Medium	Approaches	Ports/Large		Comment
A	B	C		A	B	C	A	B	C	
100	0	50		100	0	50	100	0	50	
Percentage of metric paper				Percentage of paper chart on a satellite datum						
<b>Status of Maritime Safety</b>				<b>Coastal Warning</b>		<b>Port Information</b>			<b>NAVARIA Warning</b>	
Local Warning Yes				Yes		Yes			Yes	
						A system exists for port and harbour information to be sent to the charting authority.			Via NAVARIA VIII co-ordinator	
<b>Master Plan</b>				<b>Area A1</b>		<b>Area A2</b>	<b>Area A3</b>	<b>NAVTEX</b>		Safety NET
Yes				Yes		Yes	Yes	Yes		No
								Received / Sent to India (Implementation is in progress by DG shipping & POMMD)		
								Separate Graphic report Available?		No

