

16TH NORTH INDIAN OCEAN HYDROGRAPHIC COMMISSION (NIOHC) CONFERENCE

Chittagong, Bangladesh 14-16 March 2016

BANGLADESH NATIONAL REPORT TO 16TH NIOHC MEETING

1. Hydrographic Office/ Services

1.1 Bangladesh Navy Hydrographic Department (BNHD) is vested with the responsibility of hydrographic surveying 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 rivers. The BNHD consists of a fleet of five sea going 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 and exercises functional authority over BNHD.



BN Hydrographic & Oceanographic Center in 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 the Naval Staff (Operations) of Bangladesh Navy is the Chairman of the committee.

2. Surveys.

2.1. BNHD carries out survey operation with the help of her survey fleet which comprises 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 different hydrographic equipment for carrying out effective survey operation. Furthermore, among those two ships and one



BNS ANUSHANDHAN

BNS SHAIBAL



BNS AGRADOOT



BNS TALLASHI

boat are fitted with multi beam echo sounder (MBES).

2.2. <u>Coverage of New Surveys</u>. Presently, new surveys are being carried out in the coastal area for following charts.

Ser	Chart No	Chart Name	Remarks
1.	BN 3001	Chittagong Harbour	To update
			existing
			charts
2.	BN 3530	Malancha River to Raimongal River	-do-
3.	BN 7501	Haariabhanga River to Pussur River	-do-
4.	BN 7509	Sandwip Island to Sangu River	-do-
5.	BN 7510	App. to Chittagong	-do-
6.	INT 7426	Approaches to Hiran Point	New Edition

Ser	Chart No	Chart Name	Remarks
7.	INT 7451	Plan A – Pussur River-Monkey Point	New Edition
	(BN 2508)	to Jayman	
		Reach	
		Plan B – Pussur River-Jayman	
		Reach to Mongla	
		Port	
8.	INT 7452	Plan A – Pussur River – Tinkona	New Edition
	(BN 3004)	Island to Ghusaingaria Khal	
		Plan B – Pussur River- Ghusaingaria	
		Khal to Monkey Point	

- 2.3 <u>New Technologies or Equipment.</u> BNHD has included few equipment and software in her inventory in 2015. Among those few mentionable types of equipment are DGPS receivers, geodetic receivers, single beam echo sounder, side scan sonar etc. Besides all the Hypack and CARIS software are updated to the latest version.
- 2.4. <u>New Ships</u>. A contract has been signed to build two inshore catamaran hull hydrographic survey vessels in local shipyards in replacement of old survey craft .The construction work will start soon and the ships will be in service by 2018.

2.5 **Problems Encountered.**

2.5.1. Hydrographic surveying in the coastal waters of Bangladesh has always been a challenging task. Due to the water quality, turbidity, strong tidal stream, unexpected rough sea condition during survey season and dense fishing net etc, surveyors need extra time and effort to manage the survey work.

3. New Charts and Updates.

- 3.1. **ENCs**. BNHD has developed a trial ENC cell. BN is in the process of capacity building and software acquisition for ENC production.
- 3.2. **ENC Distribution Method**. Not Applicable (NA).
- 3.3. **RNCs**. NA.
- 3.4. <u>INT Charts</u> . BNHD previously has published three INT charts (INT 7425, INT 7426 and INT 7428). Recently INT chart 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 published in IHO publication S-11 Part B, Edition 3.0.0 , January 2016. All the charts will be published in due course of time 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 – Pussur River – Monkey Point to Jayman Reach
		Plan B – Pussur River – Jayman Reach to Mongla Port
7.	Int 7452	Plan A – Pussur River – Tinkona Island to Ghusaingaria Khal
		Plan B – Pussur River- Ghusaingaria Khal to Monkey Point
8.	Int 7453	Payra Harbour
9.	Int 7454	Approaches to Payra Harbour

3.5 . <u>National Paper Charts</u>. A list of published & updated charts during the year 2015 is given below:

Ser	National Chart No	INT No	Title	Remarks
1.	KAJAL 1	-	Gupta Haola to Char Borhan	New Edition
2.	KAJAL 2	-	Char Borhan to Debir Char	New Edition
3.	KAJAL 3	-	Debir Char to Char Chandraprasad	New Edition
4.	KAJAL 4	-	Char Chandraprasad to Amir Ganj	New Edition
5.	KAJAL 5	-	Amirganj to Kaliganj	New Edition
Ser	National Chart No	INT No	Title	Remarks

6.	BN 3530	-	Malancha River to Raimangal River	New Edition
7.	BN 7504	7454	Approaches to Payra Port	New Edition
8.	BN 3002	7453	Payra Harbour	New Edition
9.	BN 3511	-	Sandwip West Channel- Bhasan Char to Sandwip	New Edition
10.	BN 1253	-	Bethbunia to Chalna	New Edition
11.	BN 70001	-	Bangladesh and Adjoining	New Edition
12.	BN 7512	-	St. Martin's Island to Taknaf	Updated
9.	BN 3501	-	Approaches to St Martin's Island	Updated
10.	BN 25002	-	St. Martin's Island to Chittagong	Updated
11.	BN 2501	-	Shahamanat Bridge to Silok Bazar	Updated
12.	BN 7511	-	Matarbari Island to Elephant Point	Updated

4. **New Publications and Updates.** BNHD has published following publications in the year 2015:

Ser	Description	Remarks
1.	BN Tide table 2016 (HP 002)	New

- 5. <u>Maritime Safety Information (MSI).</u> 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. <u>C-55 (Updated table)</u>. The updated C-55 table is prepared on behalf of Bangladesh and attached to National Report.
- 7. **Capacity Building**.
- 7.1. <u>Training received</u>. Training received through IHO Capacity Building (CB) and

bilateral agreement with other nations are as follows:

Ser	Course/Training	CBC/Bilateral Agreement	Country	Duratio n	Participant s
1.	Multi beam Surveyor Training	CBC	India	5 days	01Offr
2.	HM Advanced Survey Course (Cat A)	Bi-lateral Agreement	UK	20 weeks	01 Offr
3	Masters of Hydrography	Bi-lateral Agreement	France	02 years	01 Offr
4	Long Hydrography Course (Cat A)	Bi-lateral Agreement	India	34 weeks	01 Offr
5	Basic Hydrography Course (Cat B)	Bi-lateral Agreement	India	22 Weeks	01 Offr
6	Survey Recorder Advance Course	Bi-lateral Agreement	India	17 weeks	01 PO

7.2. **Training Needed**.

- a. Cat A Hydrography Course
- b. OJT on MBES
- c. Training on ENC production
- 7.3. <u>Training Offered</u>. BN conducts Cat-B Hydrographic course in BN Hydrographic School. Till date, 12 foreign officers and 15 students from different maritime organisations 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, Mongla Port 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)	8 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. <u>Celebration of World Hydrographic Day</u>. Bangladesh continued her effort in celebrating the 'World Hydrographic Day' on 21st June 2015. The day was celebrated with proper gesture by calling a seminar which was outlined keeping the theme of the day "Our seas and waterways - yet to be fully charted and explored".



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 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.

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) Représentant officiel à l'OHI (tel que désigné par le Gouvernement Membre)

Bangladesh Navy, Ministry of Defence
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.
26 March
+ 88 02 985 86 20 + 88 02 01769702170 + 88 02 983 62 70, + 88 02 988 56 33 dhydro@navy.mil.bd
http://www.navy.mil.bd Hydrographic School: 05 May 1983 1st Hydrographic Vessel: 10 November 1983 Hydrographic Directorate: 1986 Bangladesh Navy Hydrographic & Oceanographic Center (BNHOC):15 March 2001 National Hydrographic Committee: 23 September 2001
Rear Admiral M Makbul Hossain, OSP, BCGM, ndu, psc Chairman, National Hydrographic Committee Commodore S Mahmudul Hassan, (H), NPP, aowc, psc, BN Director Hydrography, Bangladesh Navy
902558 tons(2016)
Officers: 60 Sailors (Survey Recorders) 209 Civilian Personnel: 10
44 03
Nil
Nil

Type of publications produced (e.g. Tide Tables, Sailing Directions, List of Lights etc.) - Type de publications produites (par ex: Tables des marées, Instructions nautiques, Livres des Feux, etc Tipo de publicaciones producidas (por ej: Tablas de	BN Tide Table	logue (HP 001) (HP 002)-Yearly ntenance Record (
mareas, Derroteros, Libros de Faros Surveying vessels/ Aircraft – Batiments hydrographiques/aeronefs – Buques hidrographicos /Aeronaves	Displacement (tons)	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

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IHO C-55: Composite Report by Nation

HO C-55:	: Ba	nglade	esh			Up	dated					INT Region
Status of	Hydro	graphi	ic Surve	/S								7
A1	A2	B1	B2 C		2	B1/B2 = % red		y at larger s	cale or to mode	ern standards 0-2 ed 0-200m / >20		
100	100	5	0 () ()	Comment						
						Hydrographic	Department.	However eping all the	the navigation	onal routes a	e 100% surveyed ed has become an e	age has always been a challenge for BN and being updated periodically. Due to exigent task. Yet, the charts covering the reasonable intervals.
Status of	Nautio	cal Cha	arting			A = % covered	by INT Charts	s, B = % cov	vered by RNC,	C = % covered I	by ENC	
Offshore	passag	ge/Small	Landf	all Coast	tal passa	age/Medium	Approac	hes Por	ts/Large	Comme	ent	
Α	В	С	Α		В	С	Α	В	С	Nil		
95	95	0	10	0	95	0	100	100	0			
Percent	tage of	metric p	aper Pe	rcentage	of pape	r charts on a		atum		on		NAVAREA Warning
Percent Status of Loca	tage of	metric p	aper Pe	rcentage Coastal	of pape	r charts on a		atum	0 Information	on		NAVAREA Warning Yes
Percent Status of Loca	tage of Mariti	metric p	aper Pe	rcentage	of pape	r charts on a	satellite da	Port	Information Yes exists for port	on t and harbour o the charting		•
Percent Status of Loca	tage of Mariti	metric p ime Sa	aper Pe	rcentage Coastal	of pape Warning	r charts on a	satellite da	Port A system enformation authority.	Information Yes exists for port	t and harbour o the charting	NAVTEX	Yes
Percent Status of Loca	Maritial Warn	metric p ime Sa	aper Pe	rcentage Coastal Ye	of pape Warning	r charts on a	satellite da	Port A system enformation authority.	Information Yes exists for portion be sent to	t and harbour o the charting	NAVTEX Yes	Yes via NAVAREA VIII co-coordinate
Percent Status of Loca	tage of Mariti al Warn Yes aster Pl	metric p ime Sa	aper Pe	Coastal Ye	of pape Warning	r charts on a	satellite da	Port A system enformation authority.	Information Yes exists for portion be sent to	t and harbour o the charting		Yes via NAVAREA VIII co-coordinate Safety NET No India is in progress