



Ministry of Shipping



BIWTA



The World Bank

BANGLADESH INLAND WATER TRANSPORT AUTHORITY (BIWTA)

Ministry of Shipping

Government of the People's Republic of Bangladesh



CATALOGUE OF CHARTS

EDITION 2024

Developed Under Project# Bangladesh Regional Water Way Transport Project-1 (BRWTP-1)
(IDA Credit Number# 5842-BD, Package No# BRWTP-S7/1)



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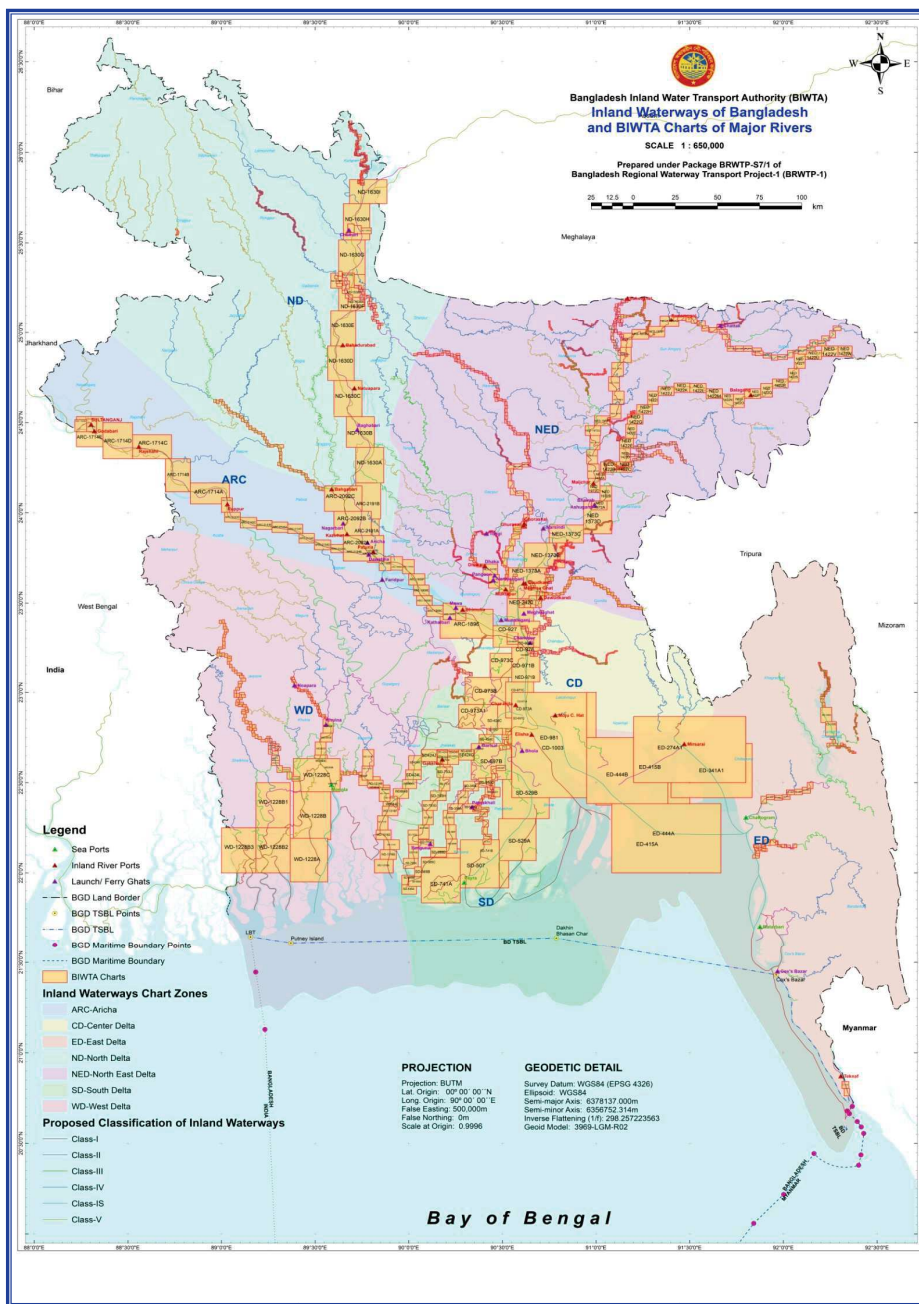
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Cartography Section
Department of Hydrography
BIWTA Bhaban, 141-143 Motijheel C/A,
Dhaka – 1000, Bangladesh
Phone: +88-02-223383552
Email: cartocatalogue.2025@gmail.com



PREFACE

This Catalogue of Publications contains the information about 514 nautical charts covering the coastal area, inland waterways, channel, routes, river ports and ghats, India – Bangladesh Protocol Routes, Ports of Call, Supply of Bunkers etc. The arrangement of the charts in this catalogue has been produced on the basis of major river routes, classification of waterways and in sequence of different legs of the navigational routes of internal water. A chronological arrangement for inland water nautical chart numbering is promulgated in accordance with the scale of chart for easy identification. The charts coverage, dimension and scale are arranged in line with S-4 (Regulations of the IHO for International Charts and Chart Specifications of the IHO and as per guidelines of the Inland ENC Harmonization Group Standardized product specification for Inland ENCs.

This catalogue will be beneficial to the masters' of the inland water transports and coastal water crafts towards the selection of charts for the safety of navigation. It is hoped that this publication would prove useful not to the mariners but also to those who are associated with the planning and development of the inland waterways of the country.

CHAIRMAN
 BANGLADESH INLAND WATER TRANSPORT AUTHORITY

1. BACKGROUND OF CHART CATALOGUE OF BIWTA

Bangladesh lies predominately within the Bay of Bengal basin, the world's largest delta formed by the Ganges, Brahmaputra (Jamuna) and Meghna (GBM) river system and its tributaries and distributaries. It has over 700 rivers, streams and canals with a total length of about 24,000 km; approximately 6,000 km is navigable during the monsoon (wet) period for different size vessels, reducing to about 4,000 km in the dry period. Inland Water Transport the river network of Bangladesh as the most important transport artery in the country's communication sector plays a vital role in national life. Almost all big cities, towns and commercial centres of the country grew up on the banks of its rivers. Inland Water Transport (IWT) carries over 50 percent of all Bangladesh's cargo traffic and one quarter of all passenger traffic. There are over 22,300 registered vessels engaged in this trade. In addition, there are approximately 750,000 unregistered country boats of a great variety of shape and size. These play a vital role in the transport of goods and people, especially on the smaller rivers.

Bangladesh Inland Water Transport Authority (BIWTA) is responsible for the maintenance and development of inland waterways of Bangladesh as well as performing regulatory functions associated thereto. In response to the above, BIWTA, through its Department of Hydrography, has been actively engaged in hydrographic survey and hydraulic investigation works related to the inland and coastal waterways of the country and publishes hydrographic charts, tide tables etc. for providing navigational facilities to the mariners. For the first time, a presentable catalogue on hydrographic charts with special reference to the period of survey has been prepared by Hydrography Department. The development and control of Inland Water Transport is the responsibility of the Bangladesh Inland Water Transport Authority (BIWTA), under the Ministry of Shipping (MoS). Its functions include but are not limited to:

1. Providing aids to navigation;
2. Disseminating navigational and meteorological information including publication of river charts;
3. Providing pilotage and hydrographic survey services;
4. Carrying out removal of wrecks and obstruction in inland navigable waterways;
5. Conducting traffic surveys to establish passenger and cargo requirements on the main rivers, feeders and creek routes;
6. Developing rural water transport by progressing of schemes for modernizing and mechanizing country craft; Ensuring co-ordination of Inland Water Transport with other forms of transport, with major sea ports, and with trade and agricultural interests for the optimum utilization of the available transport capacity; Conducting research in matters relating to Inland Water Transport;
7. Arranging programs of technical training for Inland Water Transport personnel
8. Maintaining liaison with the shipyard and ship repair industry to meet the requirements of the Inland Water Transport fleet.

River instability coupled with rapid deterioration of the river system through massive siltation causes serious problems to navigation. The rivers of Bangladesh carry an estimated annual sediment load of about 2.5 billion tons to be dumped on their way to the Bay of Bengal which caused the formation of numerous detached shoals and bars throughout the coastal area. The bottom topography of the coastal area of Bangladesh is very shallow and subject to constant topographical and hydraulic changes. As such navigation by the ocean-going ships through these waters is hazardous and demands regular hydrographic surveys and studies to the area. Due to the huge amount of silt that is carried by the rivers from upstream the river bed in the BRWTP region is dynamic with regular shifting of shoals. To navigate safely through these rivers, it is not only required that the waterway is charted but also the charts are regularly updated with shifting of shoals.

The appointed individual consultant under the package BRWTP-S7/1 of Bangladesh Regional Waterway Transport Project I (BRWTP-I), Bangladesh Inland Water Transport Authority (BIWTA), Ministry of Shipping (MOS) has taken initiative to prepare a complete chart catalogue of inland waterways of Bangladesh. The developed Chart Catalogue will definitely improve Inland Water Transport (IWT) efficiency and safety for passengers and cargo along the Regional Corridor and to enhance sector sustainability. This Catalogue will definitely open up the wide scope of smart management of inland waterways chart folios, production of charts as per international standards, ENC production and management system and maintaining a systematic hydrographic database.

This publication, by no means, can claim to be complete and free from obvious shortcomings, but it is intended to be a guide and ready reckoner. Our efforts will be to update this publication every year. Valuable suggestions from individuals and organisations for the improvement of this catalogue will always be welcome.

2. EXISTING CLASSIFICATION OF INLAND WATERWAYS

The total length of rivers in Bangladesh is estimated to be in the range of some 24,000 kilometres, providing a very high degree of penetration. Out of this total, 6,000 kilometres are accessible for movement of modern mechanized vessels during the monsoon season, and out of this, some 3,800 kilometres are navigable around the year.

The waterway network through which the cargo vessels move is classified into four categories, based on the depth of rivers. The depths of the Class I-IV categories of rivers are provided in Table below.

2.1 Existing Classification of Bangladesh Inland Waterways

According to the traffic and economic importance, the inland waterways have been classified into four classes, which are as follows:

- Class – I Route.** Routes comprising the perennial waterways, where vessels up to 12-13 feet draught can safely ply throughout the years fall under this category. Most of the major accidents so far have occurred in these routes. The approximate length of the route is 685km.
- Class – II Route.** The perennial waterways, where vessels up to 8 feet draught can ply fall under this class. Most of the major accidents so far have occurred in these routes. The approximate total length of this route is 1000km and there are many causes major accidents of passenger vessels along these routes.
- Class – III Route.** The waterways, where vessels up to 6 feet draught can ply fall under this class. Most of the major accidents so far have occurred in these routes. Transit routes or feeder routes connected with Class-II and Class-I route fall under this category. The approximate total length of this route is 1885km.
- Class – IV Route.** This type of route is only navigable during rainy seasons. During dry seasons, boats having draught less than 5 feet can play. The average total length of such route is 2400km.

Table 1: Existing classification of IWT routes of Bangladesh.

Existing Classification of IWT River Routes in Bangladesh						
Class	Max Vessel Draft (& Min Advertised River Depths)	Minimum Channel Width	Minimum Vertical Clearance	River Length (km)	% of Total IWT (km)	Classification Criteria
I	3.65 m (3.96m)	76.22 m	18.30 m	683	11%	Major transport corridors where LAD of 3.6m is required to be maintained throughout the year
II	2.13 m (2.43m)	76.22 m	12.20 m	1,000	17%	Links major inland ports of places of economic importance to the Class I route.
III	1.52 m (1.82m)	30.46 m	7.62m	1,886	32%	Being seasonal in nature, it is not feasible to maintain higher LAD throughout the year.
IV	<1.52 m	20.00m	5.00m	2,400	40%	Season routes where maintenance of LAD of 1.5m or more in dry season is not feasible.
Total				5,968	100%	

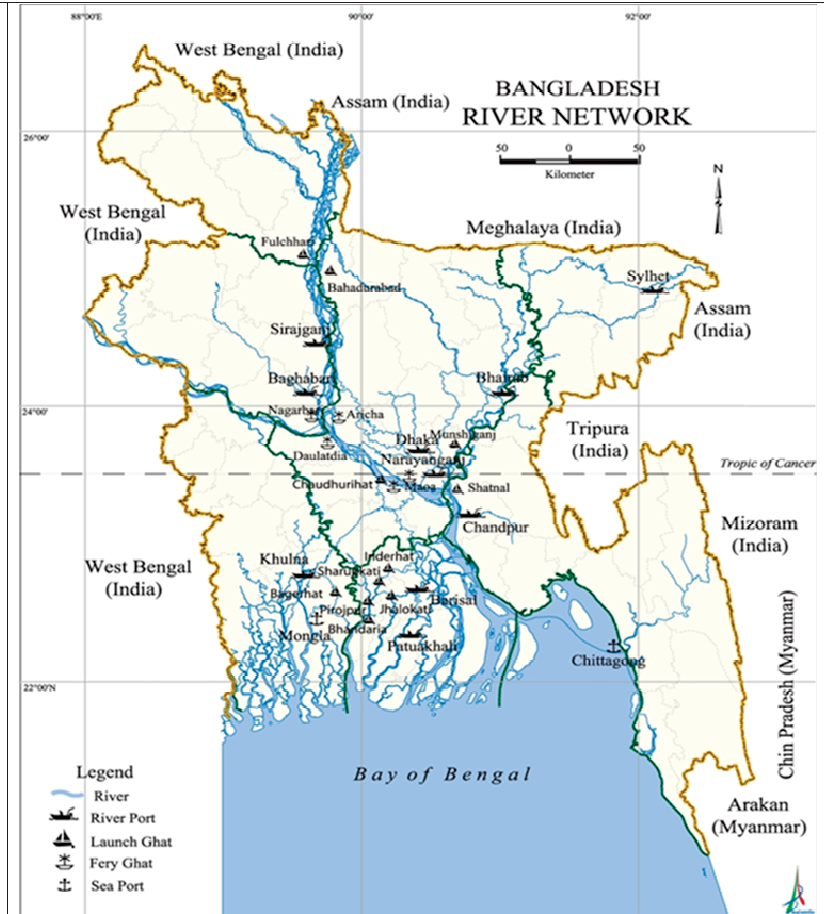


Figure 1: Existing Classification of IWT River Routes in Bangladesh.

2.2 Name of River Routes, Length, Depth, Open Time etc. as per Existing Classification of River Routes

Table 2: Existing Classification of IWT Routes.

Existing Classification of Inland Waterways					
SL.	Name of the River Route	Distance (km)	Name of the Shoal and Depth (m)	Open for Navigation	Max Draft Limit (m)
1	Dhaka-Narayanganj (Via Char Syedpur)	31	No Depth Limitation	Open Day/ Night	3.96
2	Narayanganj-Daudkandi	40	No Depth Limitation	Open Day/ Night	3.96
3	Narayanganj-Ghorashal	49	No Depth Limitation	Open Day/ Night	3.96
4	Ghorashal-Toke-Mymensingh	135	No Depth Limitation	Open Day/ Night	3.96
5	Narayanganj-Bhairab	95	No Depth Limitation	Open Day/ Night	3.96
6	Meghna Ghat-Ramchandrapur	44	Ramchandrapur -3.04	Open Day/ Night	2.95
7	Narayanganj-Narsingdi	58	Narsingdi -3.50	Only Day	3.35
8	Narayanganj-Langalbandh	15	Langalbandh -3.04	Only Day	2.95
9	Nabinagar -Gokarnaghat	20	Goshaibazar -3.04	Only Day	2.95
10	Nabinagar-Savar	25	Chattry Bazar -3.20	Only Day	3.10
11	Narsingdi-Nabinagar	41	Nabinagar -2.90	Only Day	2.80
12	Narayanganj-Mirkadim	12	Dohuri- 1.86	Open Day/ Night	1.75
13	Mirkadim-Taltola	8	Abdullahpur- 2.13	Open Day/ Night	2.00
14	Taltola-Dohuri	14	Kazirgaon- 2.28	Open Day/ Night	2.10
15	B.G. mouth-Syedpur	18	No Depth Limitation	Only Day	3.96
16	Syedpur-Nayarhat	36	Moshurigola -1.67	Only Day	1.55
17	Syedpur-Bandura	26	Bandura -2.28	Only Day	2.10
18	Syedpur-Manikganj	61	Gopalpur -2.15	Only Day	2.00
19	Syedpur-Srinagar	16	Srinagar -2.28	Only Day	2.10
20	Syedpur-Shahajani	116	Kaderpur -1.82	Only Day	1.70
21	Sadarghat-Mirpur	13	Charbarirtech -3.20	Only Day	3.00
22	Gabtolli-Karnapara	15	Savar Bank Town -2.00	Only Day	1.80
23	Mirpur-Birulia	15	Shanirbil -3.70	Only Day	3.60
24	Birulia-Kadda	22	Birulia -2.90	Only Day	2.80
25	Demra-Tongi	31	Baganbari -3.00	Only Day	2.85
26	Daudkandi-Sonamura	98	Depth Limitation	Closed	Closed
27	Bhairabbazar-Ashuganj	2	No Depth Limitation	Only Day	3.96
28	Ashuganj-Azmiriganj	120	Moddhonagar, Kadomchal & Kakaali -3.00	Only Day	2.84
29	Azmiriganj-Markuli	28	No Depth Limitation	Only Day	3.96
30	Markuli-Sherpur	42	Badorpur -3.00	Only Day	2.84
31	Sherpur-Fenchuganj	40	Monurmukh -3.50	Only Day	3.34
32	Fenchuganj-Jakiganj	80	Shawlaghat -3.00	Only Day	2.84
33	Bhairab-Chhatak (Via -Shingpur)	230	Hemnagar, Panchat & Fakirbari -2.59	Only Day	2.44
34	Gaglajor-Mohonganj	15	Jownopur -2.29	Only Day	2.14
35	Sunamganj-Dolura	6	Dolura -1.98	Only Day	1.83
36	Lalpur-Tekerhat (Legrin-Tekerhat)	55	Solamanpur-1.98	Only Day	1.83
38	Chandpur-Narayanganj	51	No Depth Limitation	Open Day/ Night	3.90

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Existing Classification of Inland Waterways

SL.	Name of the River Route	Distance (km)	Name of the Shoal and Depth (m)	Open for Navigation	Max Draft Limit (m)
39	Matlab – Satnal-Amirabad	55	Durgapur-Kalirbazar -2.60	Open Day/ Night	3.00
40	Chandpur-Mawa via Suroswar	52	Palerchar-Hasail-2.60	Only Day	3.50
41	Janatabazar-Chandpur	96	Nawarhat-Shewra -3.60	Open Day/ Night	3.96
42	Chandpur-Char Alexander	94	Chatolkhali-Char Alexander -2.25	Only Day	3.00
43	Chandpur-Ulania-Barishal	90	Ulania dredging Khari -3.00	Open Day/ Night	3.90
44	Hizla-Durgapasha-Showla	13	Hizla-Barojalia-Durgapur -2.35	Open Day/ Night	2.95
45	Chandpur-Barishal (Showla-Hizla)	90	Barojalia-Durgapur -2.30	Open Day/ Night	2.95
46	Chandpur-Barishal (Nandibazar)	107	Badorpur-Haturia Nala -1.60	Open Day/ Night	2.80
47	Abupur-Mridharhat	3	Mirdharhat Nala -1.35	Open Day/ Night	1.80
48	Chandpur-Damudya (Potti Nala)	47	Kodalpur-Potti nala -1.90	Open Day/ Night	2.10
49	Laxmipur-Bhola (Ilsha – Motirhat-Moju Chowdhurirhat)	26	Motirhat -0.90	Open Day/ Night	2.70
50	Laxmipur-Bhola (Ilsha-Char romali –Moju Chowdhurirhat)	21	Char Meghna -2.3	Open Day/ Night	2.70
51	Horina-Alubazar (via Laxmir char)	10	Bharachakky (1) & (2) -2.40	Open Day/ Night	2.95
52	Chandpur-Echali-Haziganj	55	Chandpur-Gachhtala Bridge -2.10	Open Day/ Night	2.50
53	Showla-Muladi	10	Showla-Muladi -1.82	Open Day/ Night	2.30
54	Chattogram-Char Gozaria via Bhasan Char	114	Bhanvhar & Buoyar char-3.00	Open Day/ Night	3.96
55	Kumira-Guptachhara (Shandwip)	17	No Depth Limitation	Only Day	3.96
	Chattogram-Cox's Bazar-St Martin via Kutubdia				
56	a. Chattogram-Cox's Bazar	120	a. Khurushkul, Bakkhali-2.80	Only Day	3.00
	b. Cox's Bazar-St Martin	116	b. Kutubdia Channel	Only Day	3.96
57	Chattogram-Cox's Bazar (Inner Channel)	200	Matarbari -1.50 Moheskhali -2.00	Only Day	2.50
58	Chattogram-Kaptai	64	Issapur -1.50	Only Day	1.80
59	Rangamati-Kaptai	30	Nurpur -2.40	Only Day	2.60
60	Kaptai-Bilaichhari	20	Bilaichhari -0.70	Only Day	1.00
61	Rangamati-Marisha	127	Shelerdak -1.00 Durchari -0.80 Marisha -0.90	Only Day	1.00
62	Rangamati-Chhoto Harina	64	Machicari -1.00, Bashuncara -0.80 & Marisha -0.80	Only Day	1.00
63	Rangamati-Mohalchhari	44	Burirghat -1.70 Naniarchar -0.80	Only Day	1.60
64	Teknaf -St Martin	37	2.6	Only Day	3.00
65	Barishal-Janata Bazar	145	Charbagroza -2.5	Open Day/ Night	3.96
66	Barishal-Chowkighat (Via Elisha)	140	Shadekpur -2.43	Open Day/ Night	3.96
67	Barishal-Borguna	101	Narwamoti -1.52	Open Day/ Night	3.96
68	Barishal- Patharghata	114	Borguna Nala -2.13	Open Day/ Night	3.96
69	Kaukhali-Nadir Bazar	65	Uzirpur -1.52	Only Day	3.96
70	Barishal-Patuakhali via char Sibly	80	Kabai -1.80	Only Day	3.00
71	Barishal – Patuakhali-Amtoli via Dopdopia	120	Mirzaganj -1.52	Only Day	2.13
72	Barishal-Laharhat	20	Laharhat -2.70	Only Day	3.00
73	Laharhat – Baloda-Bhola Launch Ghat	25	Tuagibania -1.82	Open Day/ Night	2.30
74	Barishal – Bhola-Lalmohan (via Durgapasa)	85	Lalmohan mouth-2.13	Open Day/ Night	2.80
75	Barishal-Patuakhali-Khepupara via Karkhna	120	Khepupara -0.60	Open Day/ Night	3.00
76	Barishal- Payra Port via Char Yunus	154	Rangabali -1.40	Open Day/ Night	3.96

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Existing Classification of Inland Waterways

SL.	Name of the River Route	Distance (km)	Name of the Shoal and Depth (m)	Open for Navigation	Max Draft Limit (m)
77	Khulna – Mongla-Kaukhali (MG Canal)	128	Machmana, Burirdanga -3.05	Open Day/ Night	3.70
78	Khulna – Mongla-Kaukhali (Joymonigol)	190	Joymonigol, Dudhmokhi & Sarankhola	Closed	Closed
79	Khulna – Mongla-Nawapara	76	Chalna, Chunkuri - 3.05	Open Day/ Night	3.70
80	Madaripur-Nondir Bazar	52	Gharhat, Mohisher Char -2.75	Open Day/ Night	2.95
81	Chalna-Angtithara-Raimongol	122	Chalna, Dacope -2.90	Open Day/ Night	3.70
82	Ghasiakhal-Bagerhat	26	Hamla, Mollikerber-2.60	Only Day	3.15
83	Khulna – Bordia-Mollarhat	130	Borpa, Panipara -2.25	Only Day	3.05
84	Kaukhali-Mollarhat	40	Matibhanga, Patgati -2.55	Only Day	3.33
85	Khulna-Gazirhat/Narail	30	Porali, Kharia -2.50	Only Day	3.05
86	Manikdah-Madaripur	50	Tentulia, Bawitoli -2.35	Only Day	2.90
87	Hularhat-Haridaspur	45	Banshbaria, Gilasnagar -2.45	Only Day	3.00
88	Khulna – Alaipur – Fakirhat-Jatrapur	27	Alipur	Closed	Closed
89	Mawa-Moinat	36	Madarerchar, Kalabagan -3.25	Only Day	3.05
90	Mawa-C & B Ghat	50	C & B Khal/Gopalpur, Goldangi -3.10	Only Day	2.90
91	Shemulia-Majhikandi	12	Hazra turning -2.80	Open Day/ Night	2.60
92	Shimulia-Elias Ahmed Chodhury Farry ghat	11	Hazra turning -2.95	Open Day/ Night	2.75
93	Moinat-Gopalpur	11	Gopalpur Approach -3.25	Open Day/ Night	3.05
94	Mawa-Sureswar	11	Palerchar-3.85	Only Day	3.65
95	Paturia-Moinat	30	Andarmanik & Bappartech -3.60	Only Day	3.30
96	Aricha-Daulatdia (Lanch ghat)	10	Aricha Launch ghat -3.25	Open Day/ Night	2.95
97	Paturia-Daulatdia (Farry ghat)	5	Paturia Approach Channel -3.70	Open Day/ Night	3.40
98	Paturia-Aricha	7	Daskandi -3.50	Open Day/ Night	3.20
99	Paturia- Kazirhat (Protappur)	21	Latifpur -3.22	Open Day/ Night	2.92
100	Kazirhat-Baghabari	29	Batteryerchar -3.10	Only Day	2.80
101	Paturia-Kawlia	50	Bhutermer -2.80	Only Day	2.50
102	Aricha-Kazirhat	15	Aricha Approach Channel -3.70	Only Day	3.20
103	Paturia-Ruppur/Pakshi	102	Barokapur & Udaipur -1.95	Only Day	1.65
104	Dhawapara-Nazirganj	7	Dhawapara -2.50	Only Day	2.20
105	Pakshi-Godagari	101	-		-
106	Chilmari-Daikhawa (Protocol Route)	45	Hokerchar -2.50	Only Day	2.35
107	Bahadurabad-Chilmari (Protocol Route)	62	Kachirchar -2.60	Only Day	2.45
108	Chandonbashisa-Bahadurabad (Protocol Route)	60	Pakuriarchar -2.65	Only Day	2.45
109	Balashi-Bahadurabad	25	Kholabari -2.20	Only Day	2.05
110	Sirajganj-Chandonbaisa (Protocol Route)	60	Shovogasa -3.00	Only Day	3.15
111	Kawlia-Sirajganj	55	Barochohali, Chanpur & Chaprirchar -2.50	Only Day	2.35
112	Chilmari-Rowmari	25	Hokerchar -2.50	Only Day	2.35

3. PROPOSED NEW CLASSIFICATION OF INLAND WATERWAYS

3.1 Proposed New Classification of Inland Waterways of Bangladesh

BIWTA has made a new proposal for reclassification of inland waterways of Bangladesh. According to the proposed new classification, the IWT routes are classified into following classes. This proposal is under active consideration by the Ministry of Shipping.

- Class I(Special)
- Class I
- Class II
- Class III
- Class IV
- Class V

Table 3: Proposed New Classification of IWT River Routes in Bangladesh.

Proposed New Classification of IWT River Routes in Bangladesh						
Class	Max Vessel Draft (& Min Advertised River Depths)	Minimum Channel Width (m)	Minimum Advertised River Depths (m)	River Length (km)	% of Total IWT (km)	Classification Criteria
IS		100	4.5	933.31	6%	
I		75	4.0	2,166.15	13%	
II		20	2.5	2,377.95	15%	
III		18	2.0	3,405.34	21%	
IV		10	1.5	4,696.46	29%	
V		10	< 1.5	2,778.77	17%	
Total				16,357.99	100%	

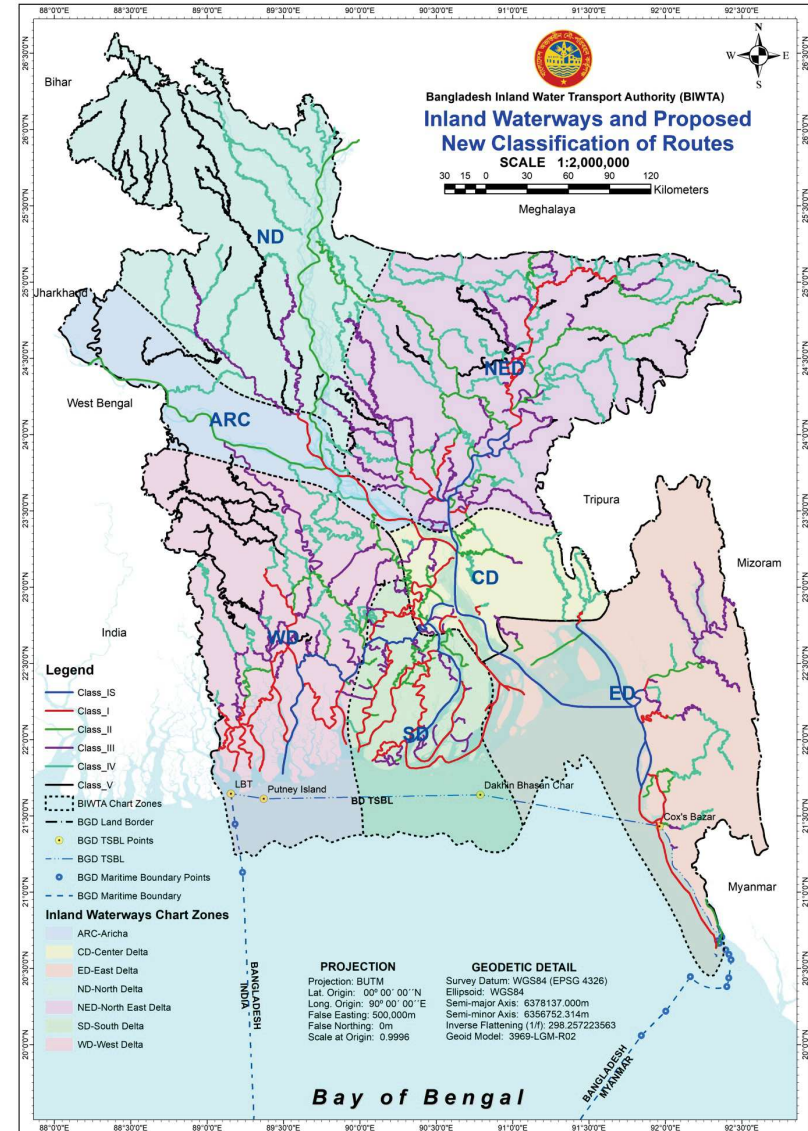


Figure 2: Proposed New Classification of IWT River Routes in Bangladesh.

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3.2 Inland Waterways: Class – S

Table 4: Approximate Length of Rivers as per Proposed New Classification of Inland Waterways.

Approximate Length of Rivers as per Proposed New Classification of Inland Waterways									
SI	River_Name	River_ID	Route- Length (km)	Bridge _Ht (m)	Exi_Dft _Rv (m)	Start and End Coordinate of the Route			
						X_Start (Long)	Y_Start (Lat)	X_End (Long)	Y_End (Lat)
Inland Waterways: Class - S									
1	Meghna (Lower)	SE-18	153.09	0	3.1	91.80406	22.22259	90.63786	22.83856
2	Sitalakhya R	NC-55	10.63	13.65	3.96	90.51759	23.70330	90.50722	23.61720
3	Meghna (Upper)	SE-17	84.01	13.5	3.96	90.99385	24.04465	90.57924	23.55580
4	Arial Khan	SW-2	27.49	0	3.96	90.43445	22.75630	90.60823	22.87261
5	Kutubdia Channel		63.85	0	3	91.84059	21.67551	91.80424	22.22265
6	Tentulia (Barishal) R.	SW-39	20.89	0	2.8	90.64877	22.45918	90.50763	22.58340
7	Tentulia (Barishal) R., Rabnabad Channel	SW-39	59.51	0	0	90.30759	21.98043	90.65719	22.38404
8	Passur River	SW-51	85.42	0	2.8	89.49347	21.77595	89.58559	22.48917
9	Mungla Nala	SW-72	13.25	13.555	2.8	89.58965	22.47134	89.64099	22.55624
10	Mungla Nala	SW-62	9.24	13.555	2.8	89.64099	22.55624	89.71049	22.55795
11	Ghasiakhali	SW-29	25.28	13.555	3.65	89.76460	22.52895	89.90065	22.38359
12	M-G Canal		6.46	13.555	2.8	89.71049	22.55795	89.76460	22.52895
13	Baleswar	SW-58	15.67	13.555	3.65	89.90065	22.38359	89.98458	22.49264
14	Kacha	SW-8	14.64	13.555	3.65	89.98458	22.49264	90.02719	22.59416
15	Passur	SW-91	7.42	13.555	3.65	90.02719	22.59416	90.07355	22.64321
16	Gabkhan Khal (Undefined)		6.43	13.555	3.96	90.07356	22.64321	90.12803	22.66917
17	Gabkhan Khal (Undefined)		8.09	13.555	3.69	90.12803	22.66917	90.18015	22.62798
18	Sandhya	SW-90	20.92	13.555	3.8	90.18015	22.62798	90.34438	22.64633
19	Kirtonkhola	SW-21	23.76	13.555	2.8	90.34438	22.64633	90.43445	22.75630
20	Tentulia (Barishal) R., Agunmukha	SW-39	13.37	0	2.8	90.50779	22.58365	90.50818	22.70013
21	Arial Khan R.,Kirtonkhola	SW-2	10.50	0	2.8	90.50818	22.70013	90.43474	22.75646
22	Karnafuli River	EH-3	18.97	10.036	2	91.85319	22.32476	91.80406	22.22259
23	Tentulia (Barishal)	SW-39	8.46	0	2.8	90.65767	22.38357	90.64878	22.45920
24	Sitalakhya R	NC-55	8.99	25.005	3.96	90.50722	23.61720	90.55785	23.56799
25	Meghna (Lower)	SE-18	43.73	0	3.96	90.63786	22.83856	90.63272	23.23157
26	Meghna (Upper)	SE-18	39.41	0	3.96	90.63272	23.23157	90.56241	23.56821
27	Meghna (Upper)		26.41	0	0	90.97316	24.01176	90.85734	23.87566
28	Sandwip Channel		72.79	0	0	91.41718	22.75377	91.78634	22.21760
29	Bay of Bengal		34.64	0	0	91.84332	21.68524	91.86807	21.98601
Sum			933						
Inland Waterways: Class - I									
30	Padma R.	NC-32	69.14	0	2.43	89.78295	23.77889	90.26968	23.44642
31	Naya Bhangani (Undefined)		47.76	0	1.22	90.33987	22.98725	90.61338	23.18862
32	Meghna (Upper), Gomti	SE-17	16.32	12.03	3.96	90.70649	23.53066	90.59269	23.49002
33	Karkhana	SW-84	50.16	0	3	90.38370	22.08863	90.35353	22.35735
34	Bishkhali R.	SW-60	103.18	0	3.8	89.98871	21.91932	90.18006	22.62796
35	Sandhya R.	SW-91	41.73	0	0	90.26364	22.82428	90.07379	22.64334
36	Andharmanik R.	SW-4	25.51	10.716	0	90.08133	21.86073	90.21518	21.98407
37	Burirshwar/Payra R.	SW-57	63.56	0	2.6	89.99661	21.95077	90.26287	22.35521
38	Bhola R.(Shoronkhola)	SW-71	24.83	0	0	89.80069	22.07252	89.84727	22.22157
39	Burirshwar/Payra R.	SW-57	31.30	17.638	0	90.42466	22.50606	90.26283	22.35518
40	Bhairab	SW-68	26.49	0	3.3	89.38775	23.05712	89.52034	22.88711
41	Arial Khan, Meghna (Branch)	SW-2	20.25	0	0	90.41921	22.74332	90.35346	22.88101
42	Sugandha R.	SW-90	15.61	0	0	90.24961	22.80855	90.34708	22.81284
43	Shahbazzpur Channel		62.60	0	0	90.97600	22.32278	90.64855	22.78149

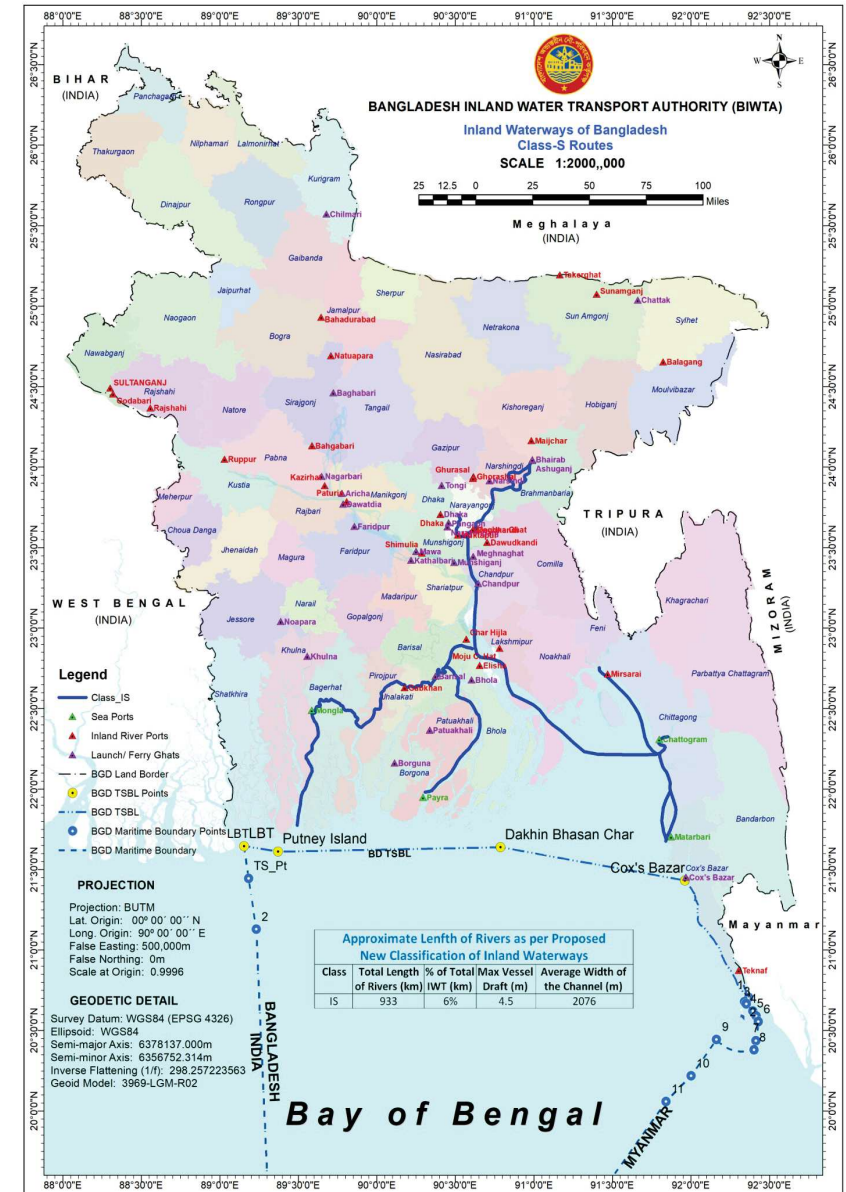


Figure 3: Approximate Length of Rivers as per Proposed New Classification of Inland Waterways_Class-S.

Bangladesh Inland Water Transport Authority (BIWTA)
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44	Buriganga R.	NC-76	3.53	14.185	3.96	90.40180	23.70870	90.42692	23.68716
45	Ghora Utra	NE-26	33.81	0	0	91.00927	24.37554	90.98483	24.15865
46	Karnafuli River	EH-3	8.96	5.541	2	91.88881	22.39602	91.85319	22.32476
47	Hurasagar R.	NW-115	13.43	16.34	2.13	89.58412	24.13336	89.65463	24.04519
48	Sitalakhya R	NC-55	36.35	11.595	3.96	90.61687	23.94118	90.50073	23.72213
49	Andharmanik R.	SW-4	3.37	13.226	3	90.21767	21.98362	90.24031	21.96368
50	Ujantia, Matamuhuri, Maheshkhali Channel, Bakkhali		40.87	0	3	91.97304	21.47936	91.87948	21.77542
51	Dhanu	NE-38	21.03	0	0	91.04125	24.49780	91.00945	24.37236
52	Buriganga R.	NC-76	15.27	11.81	2.59	90.33534	23.78420	90.40161	23.70901
53	Surma	NE-83	38.11	12.172	0	91.39227	25.07340	91.16080	24.96069
54	Surma	NE-83	46.87	23.13	0	91.67378	25.03851	91.39227	25.07340
55	Meghna (Upper)	SE-17	19.44	16.447	0	90.98484	24.15865	90.99386	24.04466
56	Dhanu R.	NE-38	20.67	0	0	91.00754	24.49551	91.00927	24.37554
57	Baulai R.	NE-55	19.47	0	0	91.16080	24.96069	91.11635	24.81259
58	Buriganga R	NC-76	4.89	0	3.96	90.45188	23.62634	90.45917	23.65453
59	Dhaleswari R.	NC-27	14.42	21.239	3.96	90.56241	23.56821	90.45188	23.62634
60	Bhairab	SW-68	11.11	0	3.65	89.52035	22.88711	89.57029	22.81818
61	Rupsha	SW-81	10.50	13.555	3.65	89.57029	22.81818	89.54495	22.75018
62	Rupsha	SW-17	18.38	13.555	2.8	89.54495	22.75018	89.53178	22.60127
63	Shela(Undefined), Passur		39.03	0	0	89.63417	22.35095	89.71164	22.12902
64	Dudmukhi Gang (Undefined)		13.35	0	0	89.71164	22.12902	89.80069	22.07252
65	Baleswar R., Bogi Khal	SW-58	19.14	0	0	89.84727	22.22157	89.90069	22.38359
66	Sandhya	SW-91	16.78	0	0	90.26366	22.82429	90.35335	22.88080
67	Arial Khan R.	SW-2	23.79	0	0	90.35335	22.88080	90.33987	22.98725
68	Chunkuri R.	SW-31	31.22	0	3.1	89.44021	22.40519	89.53132	22.60184
69	Shibsha R. (Undefined)		12.29	0	3.1	89.41319	22.25904	89.42256	22.34717
70	Shibsha R. (Undefined)		6.31	0	3.1	89.37082	22.26756	89.41319	22.25904
71	Dacope Nala		2.47	0	3.1	89.35087	22.26284	89.37082	22.26756
72	Dacope Nala	SW-85	11.06	0	3.1	89.32438	22.19677	89.35087	22.26284
73	Arpangasia Khal	SW-6	13.99	0	3.1	89.25252	22.09747	89.32438	22.19677
74	Arpangasia Khal		3.95	0	3.1	89.21959	22.09344	89.25252	22.09747
75	Jamuna (Sundarban) (Undefined)		6.11	0	3.1	89.17273	22.07229	89.21959	22.09344
76	Jamuna (Sundarban) (Undefined)		2.63	0	3.1	89.15024	22.07848	89.17273	22.07229
77	Malancha		1.92	0	3.1	89.13648	22.06696	89.15024	22.07848
78	Malancha		20.37	0	3.1	89.09526	21.93953	89.13648	22.06696
79	Sibsa R.	SW-88	7.04	0	3.1	89.42256	22.34717	89.44001	22.40583
80	Tiakhal R.	SW-37	2.59	13.226	3	90.24031	21.96368	90.25946	21.95445
81	Andharmanik	SW-37	7.96	0	3	90.25957	21.95444	90.30762	21.98043
82	Meghna(Upper), Padma R.	NC-32	48.42	0	2.82	90.26968	23.44642	90.63237	23.23050
83	Buriganga R	NC-76	4.90	17.257	3.96	90.45917	23.65453	90.42705	23.68703
84	Brahmaputra-Jamuna	NW-76	35.98	16.34	2.13	89.78295	23.77889	89.65453	24.04554
85	Bakkhali, Coastal Waterway		102.67	0	3	92.33121	20.63468	91.93645	21.46487
86	Sitalakhya R	NC-55	2.88	13.65	3.96	90.50073	23.72213	90.51748	23.70346
87	Dhanu R.	NE-38	49.10	0	0	91.11635	24.81259	91.00754	24.49551
88	Raimangal R.	SW-82	4.44	0	3.1	89.07516	21.92811	89.09526	21.93953
89	Sibsha R.		45.33	0	0	89.52839	21.98432	89.43131	22.34938
90	Lohalia R.	SW-84	27.54	0	3	90.35353	22.35735	90.42473	22.50612
91	Meghna (Branch), Tentulia R.	SW-39	22.34	0	3	90.55523	22.70425	90.62914	22.80339
92	Rabnabad R., Agunmukha, Tentulia	0	44.09	0	0	90.30782	21.98171	90.53221	21.88784
93	Shahbazpur Channel, Coastal Waterway	0	63.88	0	0	90.87926	22.24106	90.53735	21.88949
94	Shahbazpur Channel		23.20	0	0	90.82181	22.19011	90.91462	22.36717

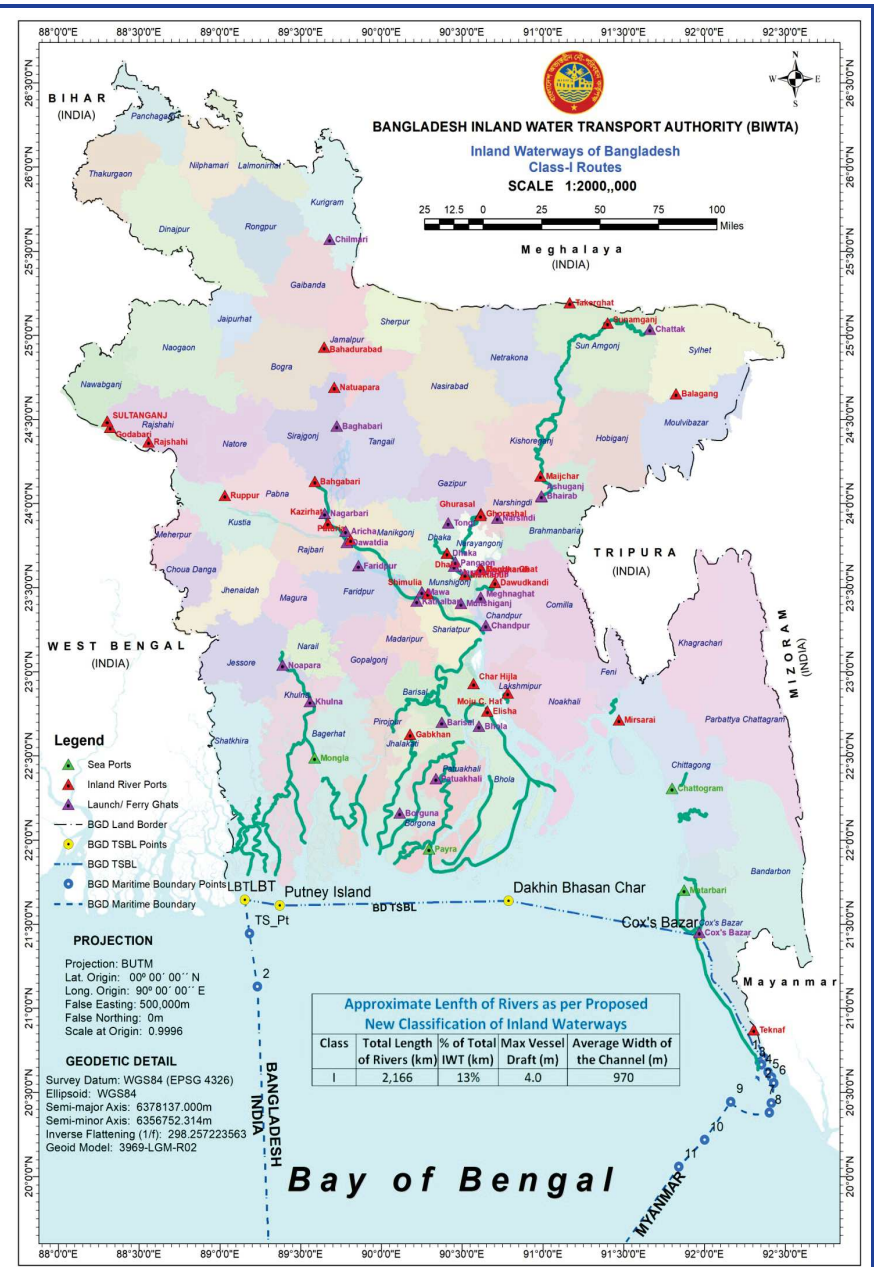


Figure 4: Approximate Length of Rivers as per Proposed New Classification of Inland Waterways, Class-I.

Bangladesh Inland Water Transport Authority (BIWTA)
Catalogue of Charts

95	Meghna (Lower)		15.27	0	0	91.07472	22.29507	90.94400	22.35033
96	Golachipa, Rabnabad	0	14.19	0	3	90.32093	21.98281	90.38395	22.08847
97	Sangu R.	EH-15	42.67	7.912	0	91.84538	22.11022	92.01388	22.15325
98	Feni R.		13.83	0	0	91.45398	22.83606	91.41842	22.75559
99	Karkhana, Pandob	SW-84	17.16	0	3	90.42473	22.50612	90.50786	22.58392
100	Kutubdia Channel		35.92	0	3	91.97275	21.47949	91.84059	21.67551
101	Baleswar R.	SW-58	29.93	0	0	89.91073	21.97140	89.84934	22.21981
102	Tentulia	0	73.08	0	0	90.37935	21.87733	90.66778	22.37874
103	Agunmukha	0	5.05	0	0	90.38490	22.09011	90.43026	22.07361
104	Hauder Bharani R.		17.47	0	0	90.23982	21.96178	90.11887	21.90080
105	Bakkhali R.	EH-9	3.27	0	0	91.97255	21.47956	91.97061	21.45137
106	Arpangashia R.(SW-6)		40.07	0	0	89.34345	21.79422	89.26440	22.08645
107	Madar Gang R. (SW-77)		62.80	0	0	89.07441	22.20045	89.17328	21.79434
108	Meghna (Branch), Rohmotpur Khal	SE-18	9.25	0	2.44	90.78356	22.87357	90.78019	22.81926
109	Kholpetua, Arpangashia, Malancha		68.46	0	0	89.24561	22.24812	89.28345	21.81297
110	Pasur R.	SW-51	13.92	0	2.8	89.58559	22.48917	89.53178	22.60127
111	Bhairab		8.15	0	0	89.38443	23.11667	89.38751	23.05741
Sum			2,166						
Inland Waterways: Class - II									
112	Meghna (Lower)	SE-18	15.88	0	2.74	90.54077	22.89143	90.46593	22.99926
113	Ganges (Padma) R	NW-27	89.83	27.108	1.67	89.02955	24.06526	89.78295	23.77889
114	Ganges (Padma) R	NW-27	117.82	27.108	1.67	88.22395	24.45674	89.02948	24.06530
115	Bhola Khal	SW-39	14.81	0	2.3	90.60619	22.67910	90.55896	22.70306
116	Tentulia (Branch)	SW-39	37.79	0	0	90.66145	22.48761	90.55523	22.70425
117	Dakatia River	SE-7	6.60	13.189	2.74	90.67483	23.20951	90.63893	23.23015
118	Kushiyara	NE-17	113.55	17.27	0	91.68045	24.63011	91.16091	24.26502
119	Dhaleswari	NC-27	16.41	12.714	1.3	90.30972	23.66163	90.45226	23.62508
120	Arial Khan R.	SW-2	63.82	13.604	2.65	90.20086	23.23813	90.33985	22.98710
121	Daratana, Poylahara R.	SW-41	18.47	13.19	0	89.79017	22.66999	89.76414	22.52960
122	Jamuna (Brahmaputra)	NW-76	250.28	0	2.13	89.99283	25.93049	89.68061	24.09145
123	Kushiyara	NE-17	39.42	23.5	0	91.93110	24.69703	91.68042	24.63003
124	Kushiyara	NE-17	94.54	20.725	0	92.47593	24.86778	91.93110	24.69703
125	Meghna (Branch)/Haridhoya Khal	SE-17	9.28	0	0	90.77267	23.87143	90.72096	23.91383
126	Madhumati		26.22	0	2.15	89.79395	22.99662	89.68545	23.09164
127	Baulai R.	NE-55	36.05	14.62	0	91.16070	24.96052	91.11897	25.09265
128	Kaliganga (Pirojpur), Madhumati	SW-20	68.88	0	2.15	89.79385	22.99652	90.02713	22.59452
129	Karnafuli River	EH-3	52.41	5.541	2	92.23262	22.49379	91.88881	22.39603
130	Sitalakhya R	NC-55	61.79	11.595	0	90.64186	24.26335	90.61687	23.94129
131	Naya Bhangani (Undefined)		35.56	0	1.98	90.44702	22.77428	90.45965	22.98074
132	Kapotaksha R.	SW-9	35.74	7.93	0	89.24561	22.24812	89.26041	22.45229
133	Amua Nala		8.47	6.806	0	90.05143	22.39341	90.09314	22.34294
134	Khagdon R. (Undefined)		5.86	5.07	0	90.11980	22.16152	90.06418	22.15957
135	Balu R.	NC-46	22.58	8.23	2	90.50073	23.72206	90.45874	23.88498
136	Meghna (Branch)	SE-18	14.16	0	0	90.46318	23.00000	90.48912	23.07279
137	Turag R.	NC-25	12.38	13.43	2.9	90.35259	23.87764	90.33542	23.78436
138	Surma	NE-83	25.13	15.342	0	91.70165	24.94197	91.67378	25.03851
139	Patnai Paikartala, Dhanu (Surma)	NE-47	25.36	14.62	0	91.11897	25.09265	91.16979	25.18884
140	Kalni	SE-17	26.95	0	0	91.16091	24.26502	90.98488	24.15896
141	Tongi Khal	NC-22	7.20	7.534	2	90.45874	23.88498	90.40647	23.88197
142	Tongi Khal, Shitalakshya	NC-22	8.36	6.575	0	90.40635	23.88196	90.35259	23.87764
143	Bangshi R. (Savar)	NC-40	12.13	9.047	0	90.24884	23.82528	90.33582	23.78531
144	Atai	SW-3	17.40	0	2.15	89.56119	22.98592	89.55824	22.84593
145	Arial Khan R.	SW-2	47.52	13.463	0	90.10757	23.47174	90.20086	23.23813
146	Kholpetua	SW-14	20.43	7.93	0	89.26041	22.45229	89.42541	22.45866

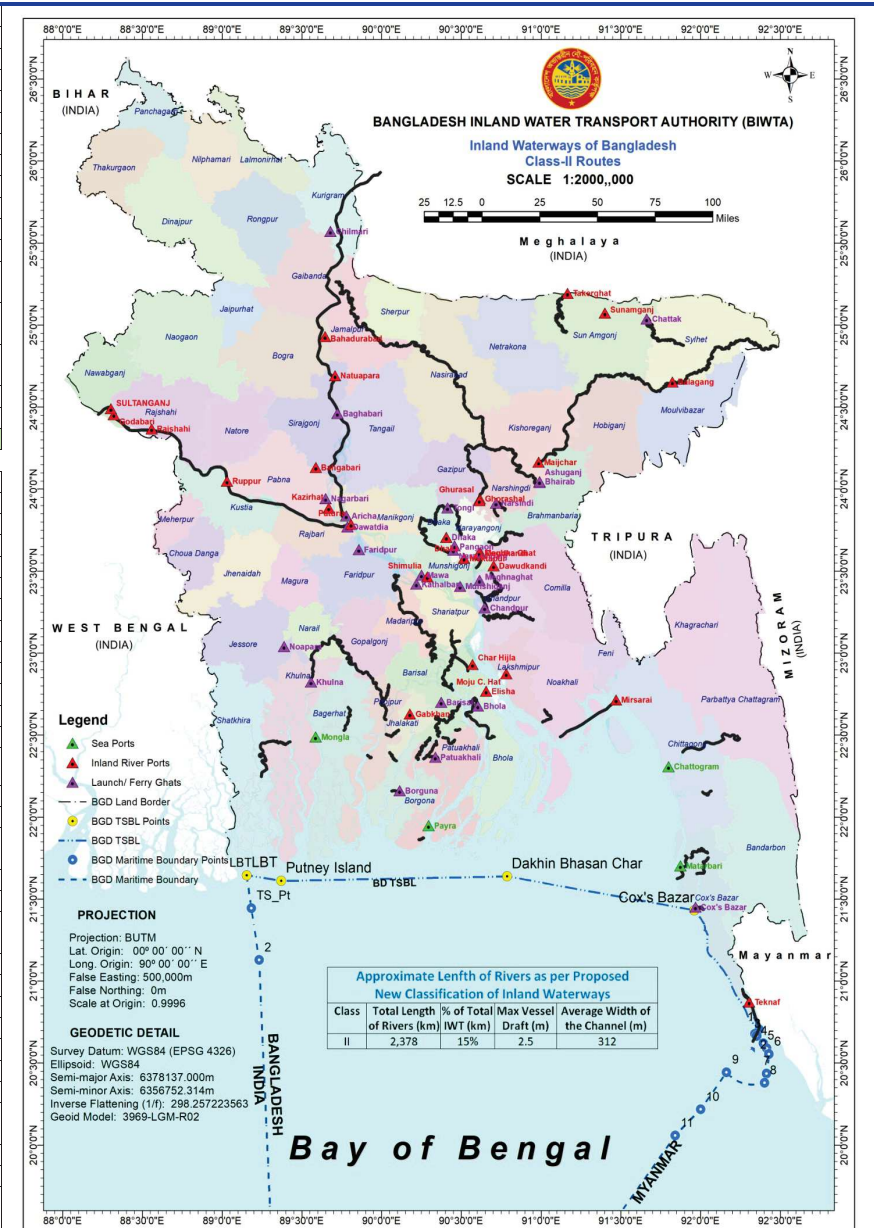


Figure 5: Approximate Length of Rivers as per Proposed New Classification of Inland Waterways Class-II.

Bangladesh Inland Water Transport Authority (BIWTA)

Catalogue of Charts

147	Pandab R.	NC-32	8.97	0	0	90.38415	22.48582	90.44380	22.45269
148	Patuakhali R.	SW-48	7.63	9.629	2.6	90.32117	22.36899	90.26331	22.35578
149	Jamuna (Brahmaputra)	NW-76	31.73	0	2.82	89.75291	23.83509	89.68061	24.09145
150	Tentulia (Branch)	SW-39	5.84	0	0	90.70732	22.48900	90.66274	22.48522
151	Old Brahmaputra R.	NC-37	225.46	8.348	0	90.64201	24.26336	89.71404	25.26383
152	Dhonagoda R.	SE-11	49.13	11.89	2.44	90.66128	23.27226	90.68701	23.48678
153	Old Brahmaputra R.	NC-37	63.44	8.348	0	90.64231	24.26321	90.98393	24.03840
154	Meghna (Branch)/Haridhoya Khal	SE-17	9.61	0	0	90.71859	23.91390	90.73044	23.83721
155	Belua		15.29	0	0	89.99950	22.69964	90.04431	22.80629
156	Bakkhali R.	EH-9	7.41	0	0	91.97061	21.45137	92.01811	21.43681
157	Rangmathia		52.05	0	0	90.35757	22.49390	90.49092	22.68903
158	Joyonti	Undefined	7.73	5.616	0	90.44026	23.07142	90.44398	23.13712
159	Fuldi	0	10.63	0	0	90.58845	23.57778	90.59379	23.52145
160	Srimanta R.	0	26.04	6.21	0	90.30169	22.47016	90.22958	22.35065
161	Dhulia Khal	0	2.99	0	0	90.49111	22.53496	90.46356	22.53103
162	Naya Bhangni (Undefined)	0	3.24	0	1.98	90.43184	22.95112	90.44796	22.97588
163	Naya Bhangni (Undefined)	0	4.11	0	1.98	90.45922	22.98171	90.44795	22.97585
164	Lohalia R.	0	3.21	0	0	90.45835	22.47038	90.44477	22.45876
165	Dakatia R.	SE-7	41.43	10.066	2.74	90.67472	23.20916	90.85718	23.25093
166	Titas	0	35.18	0	2.28	90.88036	23.71897	90.67222	23.67853
167	Arial Khan	0	3.31	0	0	90.43964	22.81167	90.43976	22.78354
168	Shiakathi	0	11.73	0	0	90.10708	22.53065	90.02863	22.50470
169	Tarki nala	0	5.75	0	0	90.31580	22.94967	90.34155	22.97099
170	Dhonagoda R.	0	6.55	0	0	90.63793	23.33673	90.59481	23.37494
171	Naf (Coastal Waterway)	EH-7	24.91	0	0	92.36172	20.74956	92.26456	20.94955
172	Naf (Coastal Waterway)	EH-7	14.01	0	3	92.32949	20.63236	92.36172	20.74956
173	Surma	NE-83	27.95	15.342	0	91.89364	24.87657	91.70165	24.94197
174	Dhaleshwari	NC-39	15.95	9.047	0	90.24991	23.73430	90.24829	23.82517
175	Dhaleshwari	NC-27	11.82	11.25	1.3	90.25001	23.73390	90.30868	23.66136
176	Matamuhuri R.	EH-13	17.75	5.33	0	91.97740	21.65432	92.04854	21.75192
177	Pangashia	SW-27	12.25	0	0	90.34253	22.46349	90.29412	22.37740
178	Patuakhali R.	SW-48	4.19	9.629	2.6	90.35405	22.35683	90.32117	22.36899
179	Sangu R.	EH-15	8.30	7.912	0	92.01388	22.15325	92.06781	22.15919
180	Kumar	SW-45	22.94	0	2.15	89.68545	23.09164	89.56119	22.98592
181	Rabnabad R.	0	3.56	0	0	90.26360	21.87304	90.23504	21.86325
182	Meghna (Lower) Branch		41.90	0	0	91.12122	22.48919	91.45732	22.69799
183	Bagordona River		14.71	0	0	91.02219	22.65384	91.01039	22.57964
184	Matamuhuri R.		19.79	0	0	92.04465	21.78161	91.93907	21.75281
185	Kohelia R.		20.97	0	0	91.85496	21.62478	91.90561	21.76365
186	Dakatia R.		16.14	0	0	90.95232	23.20549	90.85730	23.25077
187	Ponadon	0	3.28	0	0	89.93449	22.36409	89.91149	22.37711
Sum			2,377						
Inland Waterways: Class - III									
188	Tentulia (Branch)	SW-39	7.07	0	2.8	90.72808	22.33646	90.68421	22.32983
189	Palong, Arial Khan	SW-46	32.67	5.928	0	90.25023	23.14221	90.41991	23.31599
190	Bangshi R.	NC-39	66.36	9.047	0	90.24829	23.82517	89.96049	24.02660
191	Gorai, Modhumoti	SW-24	197.19	12.4	0	89.68515	23.09137	89.11346	23.95725
192	Tarki nala	SW-36	25.88	5.466	0	90.24292	23.07279	90.31589	22.94856
193	Kaptai Lake		18.32	0	1.4	92.33229	22.50034	92.23466	22.51045
194	Karnafuli River	EH-3	64.85	0	1.3	92.39236	22.87464	92.18747	22.63952
195	Kaptai Lake	EH-5	46.68	36.471	0	92.03444	22.93423	92.20851	22.65411
196	Kasalang River	EH-4	68.43	37.277	1.4	92.26865	22.71251	92.18995	23.16204
197	Khirabad R.	SW-22	16.58	9.462	3	90.38009	22.59057	90.34427	22.64653
198	Satla, Harta	SW-86	13.34	0	0	90.04770	22.86352	90.16310	22.83739
199	Boromachua Khal		22.18	3.436	0	90.08064	22.25830	89.88326	22.30995

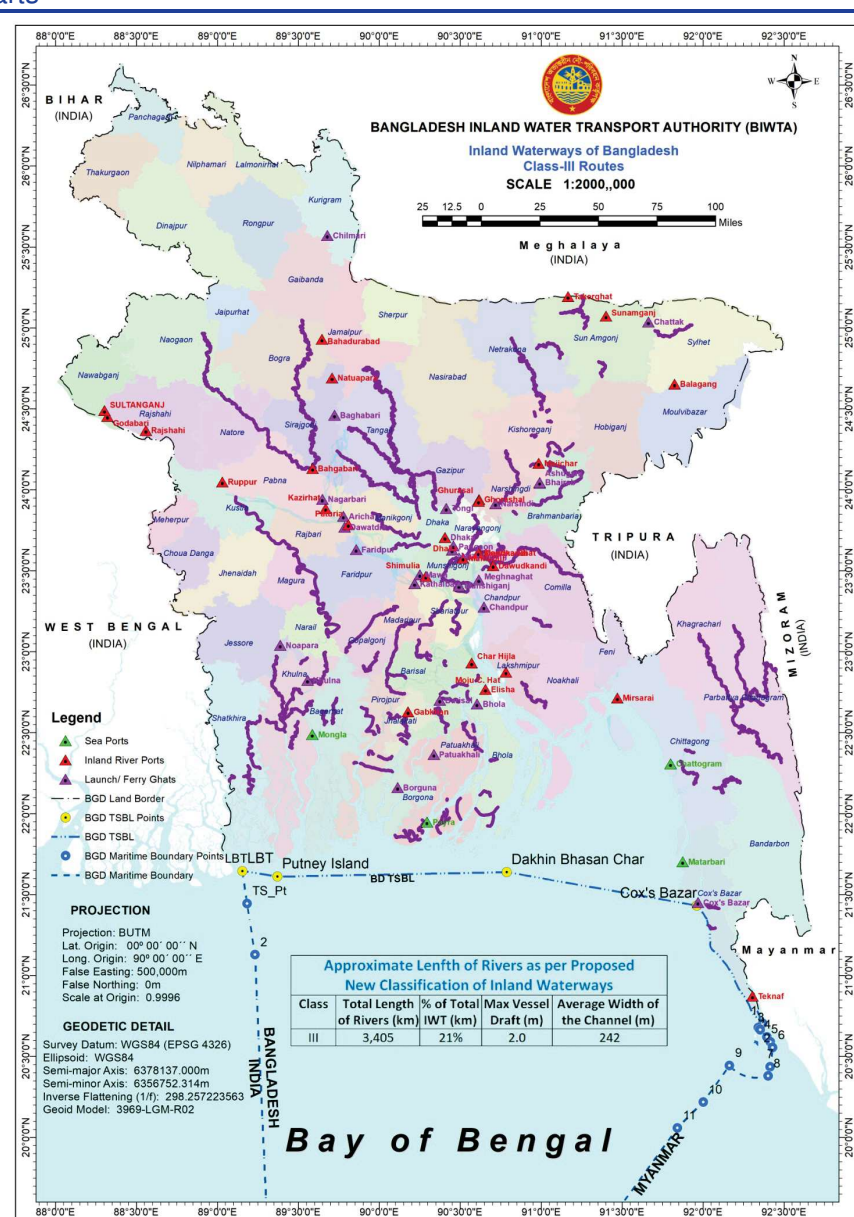


Figure 6: Approximate Length of Rivers as per Proposed New Classification of Inland Waterways_Class - III.

Bangladesh Inland Water Transport Authority (BIWTA)
Catalogue of Charts

200	Rayenda Nala		1.91	5.39	0	89.84356	22.31184	89.85977	22.31488
201	Baleswar R.	SW-58	32.37	0	0	89.88918	22.65653	89.97602	22.49138
202	Bukhainagar		12.53	9.086	3	90.48973	22.68863	90.39061	22.71363
203	Gomani, Atrai	NW-4	57.81	13.27	0	88.97944	24.61240	89.31142	24.33788
204	Hurasagar R.	NW-115	32.38	11.77	0	89.57329	24.32552	89.59138	24.12815
205	Joyontika		41.59	5.099	1.83	90.44363	23.13719	90.47487	23.31568
206	Arial Khan (Narsingdi)	NC-3	51.86	7.15	0	90.78390	24.24102	90.73944	23.91588
207	Kangsha	NE-64	35.73	8.59	0	90.97257	24.87343	91.11635	24.81259
208	Kamarkhali (Undefined)		17.26	13.24	0	91.37541	24.70033	91.35600	24.79174
209	Mogra	NE-65	83.74	7.53	0	90.81780	24.93778	91.01999	24.57545
210	Narasundar River	NE-42	3.17	0	0	90.96491	24.45502	90.95727	24.48146
211	Kholpetua R.	SW-23	43.35	6.873	0	89.19270	22.56668	89.26365	22.27955
212	Kaliganga (Manikganj)	NC-9	56.54	11.25	1.3	89.95810	23.85825	90.25001	23.73390
213	Mogra	NE-38	14.48	7.53	0	91.01998	24.57551	91.00779	24.49793
214	Dhaleswari R.	NC-27	48.35	9.047	0	89.73930	24.23939	89.96049	24.02660
215	Choto Jamuna	NW-46	59.78	12.649	0	88.90695	24.96641	88.93629	24.64123
216	Atrai (Pabna) R.	NW-5	50.58	12.87	0	89.31142	24.33788	89.58391	24.13341
217	Sutarkhali		18.73	0	3.1	89.44534	22.41154	89.49149	22.49838
218	Morichap	SW-75	5.21	6.873	0	89.19261	22.56689	89.23450	22.55574
219	Kapotaksha	SW-23	17.40	6.873	0	89.40614	22.52010	89.30264	22.58133
220	Pandab R.	NC-32	13.23	0	2.74	90.41073	22.50113	90.38529	22.58760
221	Bisharkandi, Bagda Khal	SW-61	13.07	0	0	90.08300	22.97173	90.04771	22.86352
222	Sutarkhali	SW-66	9.02	0	3.1	89.49149	22.49838	89.49835	22.56956
223	Atrai (Naogaon-Nator) R.	NW-4	6.38	14.11	0	88.93629	24.64123	88.97944	24.61240
224	Rainkhain	EH-14	12.60	0	0	92.37191	22.67168	92.28749	22.70318
225	Algi	Undefined	27.75	7.375	0	90.60842	22.40554	90.53916	22.56516
226	Bangshi River	NC-39	205.56	16.091	0	89.90046	24.74241	90.21248	24.08318
227	Bangali R.	NW-79	155.89	16.78	0	89.52240	25.04934	89.58448	24.30470
228	Gomti R.	SE-4	91.74	12.32	0	90.70650	23.53061	91.25355	23.46109
229	Bangshi River	NC-39	1.52	0	0	90.10154	24.12677	90.08951	24.12283
230	Bangshi River	NC-39	6.91	0	0	90.08893	24.12202	90.14010	24.10444
231	Bangshi River	NC-39	11.59	0	0	90.21170	24.01633	90.20705	24.08228
232	Bangshi River	NC-39	22.62	0	0	90.22597	23.92240	90.21171	24.08305
233	Nagda Khal, Balu	NC-46	11.82	0	0	90.49723	24.00604	90.49053	23.92475
234	Nagda Khal, Balu	NC-46	6.38	0	0	90.46159	23.88367	90.49090	23.92441
235	Kaptai Lake	Undefined	3.41	0	0	92.17309	22.66053	92.20163	22.66171
236	Kaptai Lake	EH-3	23.40	0	0	92.39198	22.87471	92.44910	22.87750
237	Bisharkandi, Bagda Khal	SW-61	35.32	3.767	0	90.08355	22.97195	90.20654	23.18317
238	Chunar		3.03	0	0	89.18820	22.29625	89.20101	22.27256
239	Malancha		0.23	0	0	89.20101	22.27256	89.19911	22.27161
240	Kadamtali Khal		6.82	0	0	89.18252	22.22936	89.19911	22.27161
241	Dumkoli Khal		2.68	0	0	89.16201	22.22947	89.18180	22.22893
242	Ichamoti Khal		18.53	0	0	89.20208	22.12510	89.18252	22.22938
243	Bagidonia Khal		4.22	0	0	89.19948	22.20710	89.22377	22.20032
244	Kalagachi		0.86	0	0	89.19796	22.19486	89.19632	22.20237
245	Ichhamati Khal		0.55	0	0	89.19480	22.19087	89.19796	22.19486
246	Ichhamati Khal		0.98	0	0	89.19619	22.18263	89.19480	22.19087
247	Bisharkandi Khal		6.67	0	0	90.04436	22.80632	90.04845	22.86173
248	Titas R.	SE-9	91.19	7.59	2.28	91.05105	24.11343	90.94596	23.91225
249	Jadukata, Rakti		23.58	9.71	0	91.26425	24.99743	91.23845	25.11353
250	Patlai, Jadukata, Rakti		11.01	10.92	0	91.25193	25.19889	91.23845	25.11353
251	Baulai River		16.26	8.45	0	91.23845	25.11353	91.11954	25.09191
252	Gomti	SE-4	7.36	0	0	90.69301	23.50882	90.63793	23.50726
253	Kachari Khal	0	18.54	0	0	90.73301	22.04081	90.59577	22.03182
254	Shahbazzpur Channel (Branch)	0	10.97	0	0	90.66905	21.92397	90.70091	22.00192
255	Ponadon	0	6.46	0	0	89.96387	22.36894	89.93449	22.36409
256	Bisharkandi Khal, Sohagdal Khal,	0	7.00	0	0	90.15563	22.74280	90.09507	22.74982

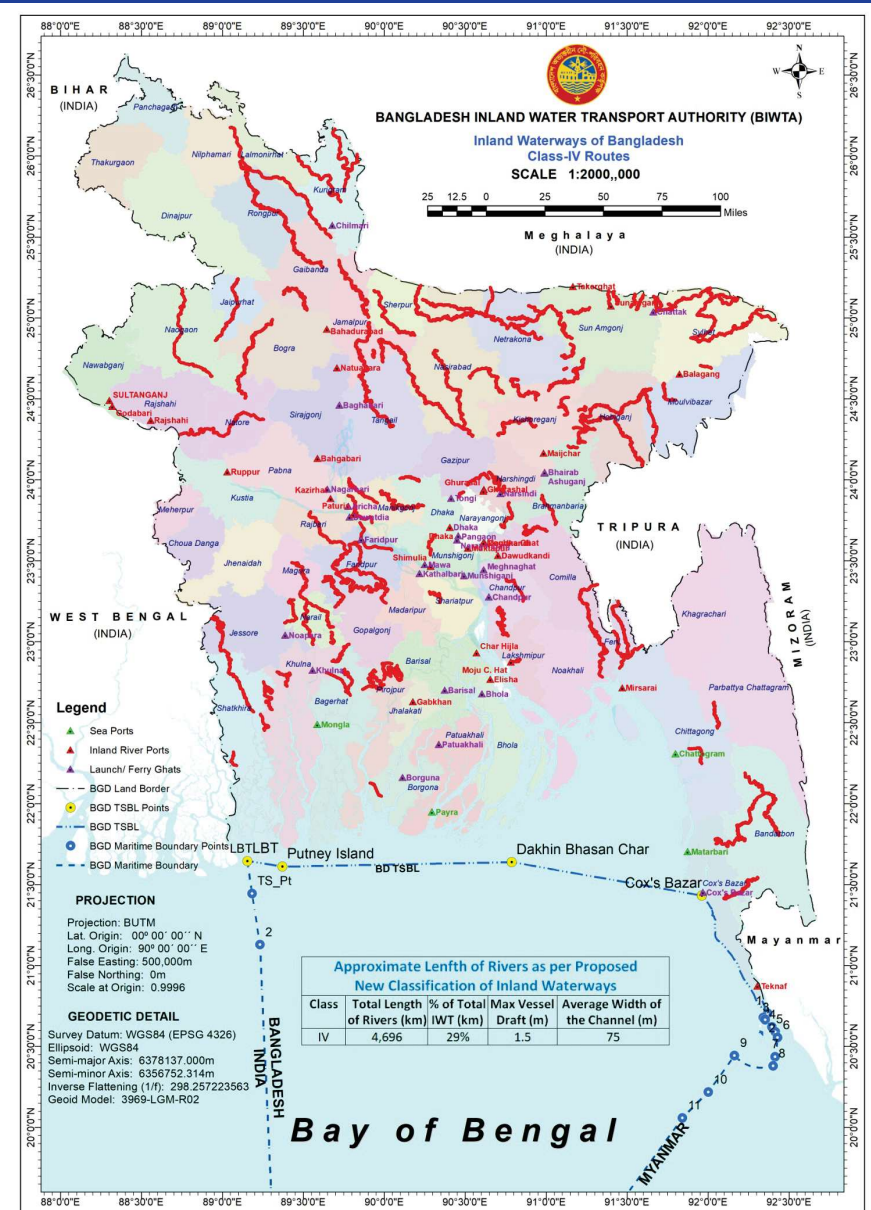


Figure 7: Approximate Length of Rivers as per Proposed New Classification of Inland Waterways Class - IV.

Bangladesh Inland Water Transport Authority (BIWTA)

Catalogue of Charts

	Jhalokathi								
257	Sandhya, Kacha	0	4.74	0	0	89.98737	22.54299	89.99679	22.50302
258	Bura Gauranga	0	15.59	0	0	90.50157	22.09456	90.50260	21.96481
259	Agunmukha	0	0.81	0	0	90.41953	22.09065	90.41816	22.08345
260	Gonikhal Khal	0	2.92	0	0	90.43337	21.97360	90.41057	21.96076
261	Kaptai Lake	0	20.66	0	0	91.97558	23.10953	92.02642	23.01251
262	Kaptai Lake, Rainkhain Khal	0	54.68	0	0	92.33225	22.50033	92.48405	22.31480
263	Meghna(Branch)/Solim pur Khal	0	2.94	0	0	90.84725	23.85008	90.82771	23.86737
264	Dhanu(Branch)	0	2.63	0	0	91.06365	24.41909	91.04306	24.42317
265	Dhanu (Branch)	0	3.13	0	0	91.03673	24.48062	91.05040	24.49576
266	Kushiyara (Branch)	0	3.70	0	0	91.11355	24.24152	91.10126	24.26572
267	Kushiyara (Branch)	0	7.02	0	0	91.14679	24.24531	91.19829	24.28617
268	Showajani Khal	0	5.17	0	0	90.96065	24.32535	90.93804	24.33552
269	Tentulia (Branch)	0	4.98	0	0	90.57808	22.55020	90.58741	22.50789
270	Kalatoya Khal	0	5.69	0	0	90.59185	22.39491	90.63620	22.38529
271	Inderhat Nulla	0	8.23	0	0	90.04748	22.78997	90.09439	22.75076
272	Machkata Channel	0	10.20	0	0	90.54377	22.79188	90.45318	22.78225
273	Arial Khan	0	4.83	0	0	90.41710	22.74549	90.37686	22.73955
274	Kalabodor	SW-39	6.53	0	0	90.54699	22.75642	90.55676	22.70362
275	Arial Khan (Branch)	0	5.35	0	0	90.31813	22.97321	90.29381	22.99511
276	Arial Khan	0	5.91	0	0	90.41202	22.91538	90.39905	22.93453
277	Ichhamati	0	8.27	0	1.2	90.43570	23.55781	90.49975	23.57718
278	Ichhamati	0	6.62	0	1.2	90.48809	23.57469	90.43885	23.55707
279	Meghna (Branch)	0	3.42	0	0	90.65980	23.62170	90.62916	23.61591
280	Kuliarchar Nala	0	6.30	0	0	90.98488	24.15896	90.93476	24.14774
281	Kushiyara (Branch)	0	16.55	0	0	91.10355	24.27076	91.04051	24.21008
282	Kaptai Lake, Chengi	0	27.54	0	1.9	92.22111	22.49917	92.20732	22.64731
283	Kaptai Lake	0	16.34	0	0	92.03456	22.93457	92.02614	23.01242
284	Danr Chhira Khal	0	9.17	0	0	90.40485	21.94827	90.41449	22.02714
285	Menikhal	0	7.45	0	0	90.62576	23.64867	90.55971	23.62903
286	Danr Chhira Khal	0	4.07	0	0	90.40486	21.94830	90.36939	21.93416
287	Ichhamati, Joypara Khal		31.10	0	0	90.07774	23.63182	90.30935	23.66050
288	Maudkhali R.		6.09	0	0	89.55541	22.96148	89.51487	22.92762
289	Ulania		4.93	0	0	90.60999	22.85559	90.59754	22.82010
290	Bakkhali R.	EH-9	14.19	0	0	92.01811	21.43681	92.09724	21.41464
291	Reju Khal		5.04	0	0	90.27536	21.29320	92.03751	21.30823
292	Tentulia(Branch)	0	6.59	0	0	91.08289	24.23431	91.13545	24.20900
293	Bangshi		20.37	0	0	90.34714	23.99604	90.35064	23.87785
294	Kumar		18.87	0	2.15	90.11313	23.27729	90.02144	23.23090
295	Madaripur Bil Route	SW-45	39.43	0	2.15	90.02144	23.23090	89.79395	22.99662
296	Saidaha		7.62	0	0	89.90122	22.91245	89.91398	22.87922
297	Shialdaho		19.18	0	0	89.99227	22.99631	89.92673	22.89037
298	Atharobeki		14.33	0	0	89.63998	22.81023	89.57192	22.81957
299	Meghna (Branch)		16.12	0	0	90.65723	23.61890	90.70034	23.52896
300	Brahmaputra /Langolbondo	NC-41	7.34	0	0	90.55879	23.63006	90.55665	23.57736
301	Rabnabad R-Tentulia Ri	0	16.88	0	3	90.37741	21.87862	90.39881	22.01040
302	Tentulia	0	10.68	0	0	90.68546	22.10755	90.62177	22.11453
303	Murari R.		29.93	0	0	91.94421	22.18172	91.85999	22.32366
304	Boalkhali Khal		7.21	0	0	91.94400	22.37842	91.89090	22.39389
305	Brahmaputra /Langolbondo	NC-41	43.62	0	0	90.57836	23.84402	90.55898	23.63051
306	Baliatali		16.59	0	0	90.23420	21.86337	90.15085	21.89479
307	Chadu Khal		20.83	0	0	90.25253	21.84220	90.09805	21.86659
308	Tiakhali R.		13.11	0	0	90.26528	21.96049	90.26488	21.88049
309	Titas		20.27	0	0	90.73653	23.66520	90.68704	23.56074
310	Bagordona River		36.30	0	0	90.88050	22.81075	91.02219	22.65384
311	Sangu R.	EH-15	43.19	7.912	0	92.06781	22.15919	92.22868	22.18962

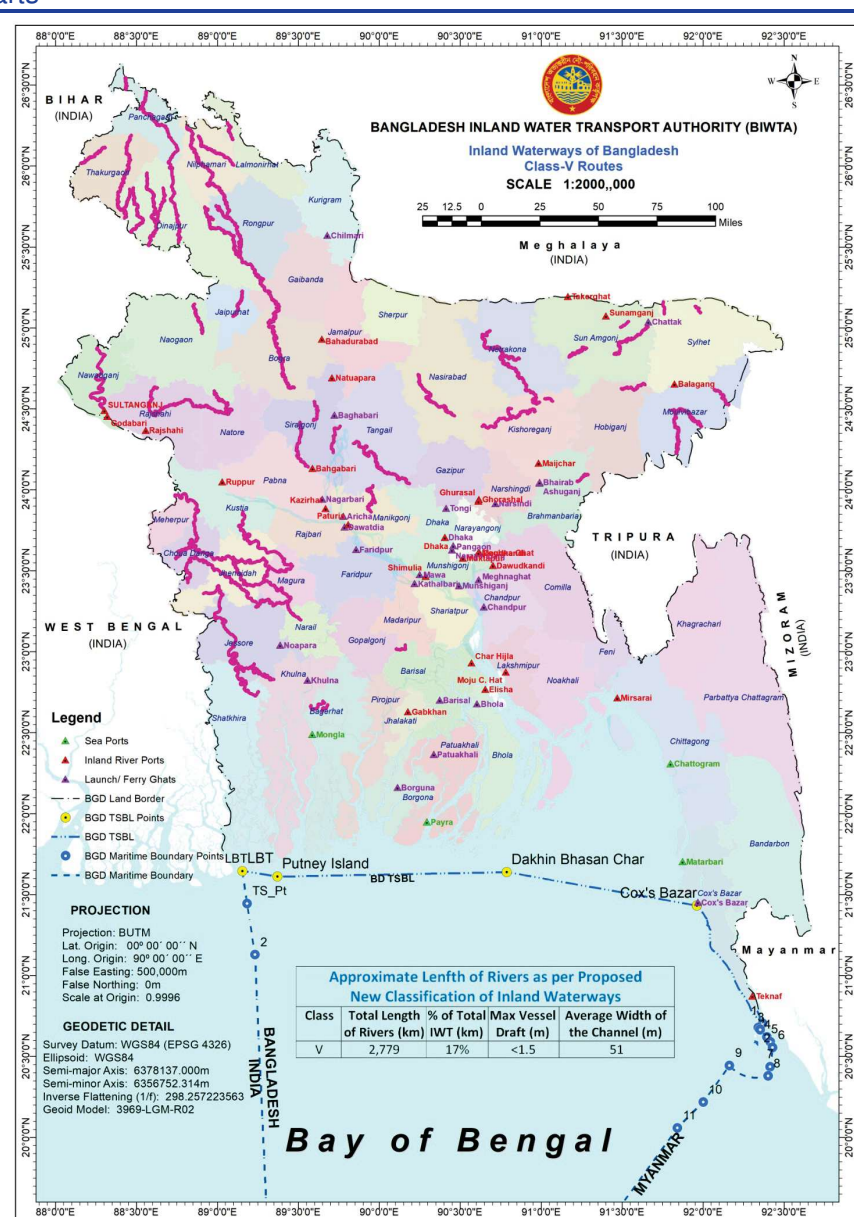


Figure 8: Approximate Length of Rivers as per Proposed New Classification of Inland Waterways_Class - V.

Bangladesh Inland Water Transport Authority (BIWTA)

Catalogue of Charts

312	Bishkhali		10.37	0	0	89.99583	22.35497	90.07759	22.35352
313	Bishkhali(Branch)		6.89	0	0	90.13035	22.45852	90.16895	22.43091
314	Jangalia R.		26.03	0	0	90.17625	22.63514	90.18619	22.48062
315	Kaukhali Khal		13.44	0	0	90.12876	22.59785	90.05304	22.62011
316	Atharobeki		28.11	0	0	89.66820	22.99646	89.64010	22.81047
317	Passur (Banch)		17.31	0	0	89.58740	22.69551	89.52919	22.61249
318	Daudkhali Khal		16.80	0	0	89.67183	22.63321	89.66073	22.54836
319	Daudkhali khal		23.32	0	0	89.73715	22.71311	89.71103	22.55746
320	Badurgachha		17.87	0	0	89.51836	22.62829	89.40239	22.57698
321	Habarkhali		34.48	0	0	89.52058	22.74321	89.40148	22.57929
322	Ghengrail		67.04	0	0	89.41856	22.50439	89.36434	22.97251
323	Bishkhali		7.81	0	0	90.11819	22.48519	90.17693	22.46825
324	Madar Gang		7.26	0	0	89.08757	22.23591	89.07441	22.20045
325	Padma Branch		30.77	0	0	90.38489	23.43699	90.57590	23.40940
326	Padma Branch		11.26	0	0	90.46780	23.42886	90.56718	23.41960
327	Taitola Khal		13.31	0	0	90.38919	23.45520	90.43960	23.55532
328	Bangshi		32.29	0	0	90.34795	23.99655	90.21240	24.08366
329	Dakatia R.		19.57	0	0	91.05689	23.16247	90.95232	23.20549
330	Shari-Goyain R.		36.16	0	0	91.93255	25.01907	91.70347	24.98323
331	Kapotaksha	SW-23	7.12	6.873	0	89.26222	22.60258	89.23450	22.55574
332	Bangshi R.		67.37	0	0	89.80935	24.37447	90.08892	24.12277
Sum			3.405						
Inland Waterways: Class - IV									
333	Surma	NE-83	74.25	15.342	0	92.33840	25.05219	91.89364	24.87657
334	Dhaki Nala		6.97	15.452	0	91.12512	24.42589	91.07704	24.44929
335	Dakatia	SE-7	55.60	3.94	0	90.76464	23.03692	90.70200	23.20561
336	Kangsha	NE-64	28.94	8.23	0	90.82993	24.95310	90.97257	24.87343
337	Nabaganga	SW-45	81.30	4.721	0	89.42918	23.48913	89.68515	23.09137
338	Bhairab (Bagerhat)	SW-69	28.12	4.04	0	89.64077	22.81012	89.79014	22.66959
339	Manu	NE-66	22.13	13.03	0	91.80125	24.49217	91.72818	24.59611
340	Kapotaksha	SW-9	42.25	8.7	0	89.25427	22.75276	89.30708	22.58077
341	Dhorla	NW-59	62.93	0	0	89.46607	26.00122	89.73043	25.71734
342	Teesta	NW-52	124.45	0	0	89.04847	26.17616	89.66944	25.49747
343	Banar (Upper)	NC-44	134.29	9.44	0	90.54455	24.26914	89.98425	24.86635
344	Sangu R.	EH-15	90.75	7.912	0	92.22868	22.18962	92.43861	21.80384
345	Atrai	NW-2	86.63	20	0	88.93598	24.64101	88.75138	25.17695
346	Phulkumar	NW-75	47.92	34.77	0	89.76655	25.88273	89.69413	26.16681
347	Dudhkumar	NW-57	31.34	0	0	89.75181	25.78554	89.83341	26.01140
348	Nagda Khal	NC-28	23.04	0	0	90.64557	24.00733	90.51411	23.96912
349	Sangu	NC-21	139.34	0	0	90.05639	24.33426	89.90866	24.97049
350	Bangshi	NC-39	16.59	0	0	90.21567	23.99222	90.09846	24.00906
351	Bangshi	NC-39	10.09	0	0	89.93522	24.75669	89.93045	24.80081
352	Bangshi	NC-39	25.07	16.553	0	89.99079	24.72825	89.98417	24.86637
353	Balu	NC-46	5.65	0	0	90.45716	23.89487	90.49086	23.92476
354	Arpangashia	SW-9	16.06	10.219	0	89.26033	22.45262	89.23551	22.55244
355	Nandakunja(Baral Upper)	NW-77	87.82	12.248	0	88.73961	24.28065	89.25351	24.37338
356	Ramu Khal	Undefined	58.73	0	0	92.34420	22.05970	92.19111	21.79122
357	Surma (Branch)		23.11	0	0	91.14931	24.83853	91.09588	24.76602
358	Dhanur (Branch)		23.93	0	0	91.12291	24.60743	91.01531	24.55165
359	Shari Goyain		64.73	11.81	0	92.02812	25.12243	91.89381	24.87679
360	Goyain		10.85	16.45	0	92.02831	25.12270	92.01511	25.18374
361	Shari Goyain		19.07	14.085	0	92.02819	25.12244	92.16490	25.12509
362	Piyain		52.73	13.328	0	92.01333	25.18606	91.67075	25.04141
363	Chela		14.08	0	0	91.66994	25.12796	91.68790	25.04731
364	Baulai		16.26	0	0	91.11101	24.96739	91.16168	24.87448
365	Abuia		21.84	12.181	0	91.13351	25.04170	91.26884	25.06460
366	Surma (Branch)	NE-83	15.91	0	0	92.41682	24.99139	92.29679	25.02969
367	Lakshipur Khal	SE-18	8.85	0	0	90.78632	22.87320	90.83986	22.88989
368	Ghagat R.	NW-35	191.12	22.592	0	89.12062	25.96738	89.62002	25.31037
369	Kumar (Faridpur-Gopalganj)		13.28	0	1.35	89.85915	23.63062	89.84991	23.73522

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370	Belua		3.54	0	0	90.01861	22.80173	90.04394	22.80634
371	Haridhoa Khal		42.11	0	0	90.64476	24.04550	90.72902	23.92014
372	Belua, Shohagdal Khal, Jhanjhaniala Khal	0	6.74	0	0	89.98679	22.86303	90.04710	22.86370
373	Sohagdal Khal, Belua Khal, Kumarkhali Khal	0	4.58	0	0	90.00664	22.80145	90.04076	22.78688
374	Kumarkhali	0	9.02	0	0	90.00655	22.80083	89.98683	22.86261
375	Dhanur (Branch)	0	2.47	0	0	91.12801	24.69150	91.10921	24.68269
376	Dhanur (Branch)	0	41.74	0	0	91.12252	24.59969	91.23464	24.74870
377	Surma (Branch)	0	4.48	0	0	91.11253	24.40155	91.12468	24.42588
378	Narasunda-Surma	0	13.00	0	0	91.13754	24.50973	91.11874	24.43767
379	Kushiyara (Branch)	0	13.74	0	0	91.21256	24.36206	91.16833	24.32063
380	Meghna(Upper) (Branch)	0	6.59	0	0	91.19252	24.19972	91.13545	24.20900
381	Balbhadra	0	27.01	0	0	91.24184	24.23278	91.23353	24.31350
382	Sata, Bhatal, Narsunda	0	50.31	0	0	90.93756	24.49508	90.82714	24.61713
383	Baulai	0	10.47	0	0	91.30123	24.31078	91.23908	24.33096
384	Sumeshwari	0	34.11	0	0	91.09183	25.02956	90.89173	25.07544
385	Swarupkati	0	10.76	0	0	90.07929	22.85449	90.10607	22.76739
386	Boithakata Khal	0	5.62	0	0	90.07710	22.84446	90.04657	22.80824
387	Shandhya (Branch) Khal	0	4.07	0	0	90.09458	22.81178	90.05931	22.81481
388	Shandhya (Branch) Khal	0	6.61	0	0	90.10744	22.78977	90.05058	22.80928
389	Shandhya (Branch) Khal	0	6.03	0	0	90.09780	22.76217	90.06794	22.79931
390	Kumarkhali	0	3.30	0	0	90.03332	22.84293	90.04464	22.82407
391	Kumarkhali	0	3.06	0	0	90.03338	22.84305	90.04782	22.82585
392	Kumarkhali	0	5.22	0	0	90.02763	22.80912	90.03336	22.84309
393	Dobra	0	4.71	0	0	89.99625	22.76665	90.00659	22.80129
394	Kushiyara (Branch)	0	7.73	0	0	91.23867	24.45274	91.20074	24.42920
395	Kata Gang	0	5.40	0	0	91.79047	25.07146	91.75429	25.08519
396	Dakatia	SE-7	1.92	0	0	90.70200	23.20561	90.70990	23.21373
397	Sutia		20.73	0	0	90.46568	24.45549	90.49634	24.31531
398	Ichhamati		35.04	0	0	89.77692	23.90330	89.92440	23.73625
399	Surma		20.64	0	0	92.18458	25.12110	92.06427	25.13675
400	Dholbhanga		26.67	0	0	90.72005	23.72424	90.77111	23.85986
401	Oha Umangi		12.24	0	0	91.38632	25.16993	91.39209	25.07442
402	Surma		15.19	0	0	91.42089	25.16418	91.43756	25.09213
403	Surma (Branch)		12.91	0	0	91.54816	25.14823	91.52146	25.06917
404	Surma (Branch)		16.62	0	0	91.60179	25.14375	91.55660	25.05224
405	Chela (Branch)		10.23	0	0	91.66450	25.13427	91.68511	25.05980
406	Dhaleswari		42.39	0	0	89.78293	24.00769	89.95757	23.85835
407	Dhaleswari	NC-27	63.07	0	0	89.97630	23.92668	90.24225	23.84058
408	Jinjiram		79.45	0	0	89.72078	25.35594	89.90164	25.00416
409	Feni	SE-12	32.14	0	0	91.59702	22.97550	91.45419	22.83699
410	Little Feni	SE-6	74.54	0	0	91.27791	23.10135	91.34670	22.78261
411	Khowai		88.30	0	0	91.21258	24.36216	91.59750	24.08804
412	Matamuhuri	EH-13	44.62	5.33	0	92.22366	21.77029	92.04854	21.75192
413	Pathorghata/Chardowa ni Khal		12.91	0	0	89.91222	22.12779	89.98186	22.04591
414	Selonia		26.68	0	0	91.41665	23.06517	91.47757	22.90459
415	Muhuri	SE-16	59.10	0	0	91.44638	23.24988	91.50092	22.91073
416	Ichhamati	EH-1	27.54	0	0	92.03870	22.62631	92.05832	22.46698
417	Chitra		42.66	0	0	89.56000	22.98304	89.53052	23.24039
418	Bhairab		38.59	0	0	89.44174	23.25917	89.38443	23.11667
419	Kumar (Faridpur)	SW-11	23.39	0	0	90.01106	23.23897	89.97812	23.38652
420	Kumar (Faridpur)	SW-11	23.83	0	0	89.81710	23.45120	89.97812	23.38652
421	Kumar (Faridpur)	SW-11	22.78	0	0	89.81710	23.45120	89.81580	23.60414
422	Kumar (Faridpur)	SW-11	6.95	0	0	89.86469	23.62748	89.81580	23.60414
423	Kumar (Faridpur)	SW-11	24.91	0	0	89.79890	23.37772	89.71174	23.43047

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424	Kumar (Faridpur)	SW-11	58.04	0	0	89.97812	23.38652	89.79889	23.37772
425	Kumar (Faridpur)	SW-11	37.64	0	0	89.79131	23.60336	89.71174	23.43047
426	Kumar (Faridpur-Gopalganj)	SW-11	2.58	0	0	89.81580	23.60414	89.79131	23.60336
427	Kumar (Faridpur)	SW-11	13.32	0	0	89.81710	23.45120	89.71174	23.43047
428	Kangsa	Undefined	32.47	5.06	0	90.68464	24.98390	90.65582	25.18921
429	Karnafuli (Branch) Khal		21.00	0	0	91.96117	22.24765	91.88116	22.34014
430	Little Feni	SE-6	49.64	0	0	91.31830	23.35354	91.27791	23.10135
431	Bakkhali	EH-9	53.98	0	0	92.30517	21.54497	92.09724	21.41464
432	Atharobanki		27.94	0	0	89.78302	22.98469	89.67796	22.87985
433	Baleshwar		19.31	0	0	89.86611	22.70634	89.99828	22.73423
434	Bhairab		24.73	0	0	89.75464	22.83161	89.76282	22.71506
435	Dighijan Khal		25.78	0	0	89.97688	22.71639	89.92733	22.72166
436	Baleswar		10.25	0	0	89.94765	22.81602	89.93950	22.78041
437	Madhumati Bill Route		47.16	0	0	89.62041	23.37178	89.69587	23.21492
438	Madhumati Bill Route (Branch)		3.35	0	0	89.67020	23.38513	89.63957	23.37632
439	Padma (Branch)		22.69	0	0	89.86466	23.62723	90.04666	23.56600
440	Joykhali Khal		21.99	0	0	89.33758	22.81482	89.39879	22.72517
441	Chandona		48.53	0	0	89.76902	23.55416	89.54473	23.80236
442	Palong		20.11	0	0	90.27848	23.30897	90.34380	23.24192
443	Betna (SW-64)		121.69	0	0	88.93070	23.14317	89.19232	22.56708
444	Atharobanki		12.05	0	0	89.67185	23.05959	89.66820	22.99646
445	Madar Gang		12.64	0	0	89.06848	22.31835	89.08757	22.23591
446	Arshi Nala		45.54	0	0	90.87969	23.71866	91.00542	23.68403
447	Buri		27.98	0	0	91.05589	23.72488	90.97549	23.90471
448	Bijni		98.46	0	0	91.21070	24.36327	91.64878	24.56236
449	Longla, Bilash		51.92	0	0	91.66590	24.23349	91.60253	24.55417
450	Juri		7.60	0	0	92.01967	24.68999	91.95282	24.70621
451	Baral		15.21	0	0	91.08473	25.01746	91.10990	24.91777
452	Gumani		41.81	0	0	90.98755	25.04109	90.76311	24.99887
453	Kangsa		38.06	0	0	90.89564	24.98845	90.68595	24.98460
454	Kangsa		118.34	0	0	90.22585	25.20116	90.63833	25.01159
455	Ghatia		47.72	0	0	90.23573	25.11417	90.55292	25.04192
456	Mrigi		63.00	0	0	90.18768	24.89343	89.93624	25.16889
457	Sutia		67.27	0	0	90.46561	24.45554	90.32838	24.79693
458	Shingua		48.79	0	0	90.70646	24.27465	90.93792	24.33531
459	Nagar		115.09	0	0	89.14024	24.50477	89.30923	24.99100
460	Tulshi Ganga River	NW-56	67.63	0	0	88.95692	24.86170	89.09689	25.24257
461	Machua Khal	SE-7	24.16	10.066	2.74	90.85718	23.25093	90.75246	23.38639
462	Ichhamati (Munshiganj)	NC-4	18.72	6.51	1.4	90.28576	23.53650	90.31572	23.65986
463	Narsundar-Surma		1.45	0	0	91.24728	24.44726	91.23956	24.44089
464	Belua		1.04	0	0	90.01039	22.81107	90.00861	22.80240
465	Bangali R		46.77	0	0	89.37792	25.14570	89.52202	25.04950
466	Kachamatia R		48.57	0	0	90.53013	24.62905	90.73587	24.53500
	Sum		4,696						
Inland Waterways: Class - V									
467	Someshwari	Undefined	36.80	5.06	0	90.72063	24.87725	90.68464	24.98390
468	Jamuneswari / Karatoya (Nilphamari)	NW-14	337.40	14.12	0	89.47475	24.63123	88.81071	26.24247
469	Narsundar	NE-42	55.09	9.56	0	90.63518	24.39167	90.95879	24.48155
470	Atrai Branch	Undefined	33.55	10.22	0	89.08988	24.49361	88.98031	24.61223
471	Rakhasini, Tentulia (Tulai)	NW-103	69.93	30.4	0	88.48139	25.86579	88.46581	25.59191
472	Shoa	Undefined	20.52	37.08	0	88.45758	25.85746	88.42287	25.73363
473	Punarbhaba	NW-72	21.27	33.793	0	88.61971	25.64560	88.57548	25.50939
474	Punarbhaba	NW-72	56.81	33.793	0	88.62044	25.64590	88.56576	25.95805
475	Shib	NW-106	60.32	10.22	0	88.62937	24.63192	88.80754	24.55759
476	Karatoya	NW-13	135.63	33.12	0	88.51925	26.35187	88.75984	25.52909
477	Gadai	NW-25	25.91	10.22	0	88.91020	24.51504	89.08982	24.49356
478	Barnai	NW-81	15.63	10.22	0	88.90978	24.51538	88.80801	24.55804
479	Mahananda	NW-95	77.35	25.26	0	88.25894	24.87798	88.29805	24.50007

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480	Saiduli		57.09	0	0	90.96423	24.58656	90.76479	24.82974
481	Baruni		16.79	0	0	90.96816	24.58626	90.99073	24.54088
482	Muladi Nala	0	10.17	0	0	90.10566	23.01898	90.15960	23.04248
483	Piyain		25.35	0	0	91.17198	24.82075	91.28113	24.87533
484	Mahasingh		9.73	0	0	91.45006	24.83866	91.48776	24.87723
485	Dhanur(Branch)		7.13	0	0	91.02263	24.56305	91.07054	24.54705
486	Surma (Branch)		37.04	0	0	91.48779	24.87723	91.66092	25.00593
487	Gowain, Piyain		7.87	0	0	91.95169	25.13480	91.98438	25.09233
488	Louhajang		31.00	0	0	90.18593	24.03910	90.00800	24.13977
489	Gohala		40.82	0	0	89.56019	24.14276	89.51043	24.41852
490	Sonai		11.60	0	0	91.22233	24.05346	91.28987	24.09430
491	Dhola	NE-35	8.88	0	0	91.75500	25.16236	91.76135	25.08707
492	Kaliganga		34.08	0	0	89.96055	24.02676	89.94993	23.86367
493	Manu	NE-66	43.51	0	0	91.99040	24.38944	91.80233	24.49201
494	Tangon		92.49	0	0	88.46741	26.19167	88.42628	25.67913
495	Choto Jamuna		31.87	0	0	88.85916	25.14746	88.90690	24.96645
496	Jamuna (Branch)		23.00	0	0	89.75858	24.39327	89.71489	24.23131
497	Dahuk		11.73	0	0	88.43449	26.54684	88.43397	26.47243
498	Chauli		19.56	0	0	88.56036	26.45885	88.54451	26.35023
499	Buri Teesta		17.84	0	0	88.98999	26.08134	89.10170	26.00543
500	Chhati		15.72	0	0	89.06137	26.26858	89.09501	26.16418
501	Ichhamati		18.09	0	0	89.59834	24.54577	89.59391	24.42874
502	Kapatakshi	SW-9	160.74	0	0	88.91441	23.35990	89.25424	22.75276
503	Nabaganga	SW-45	169.80	0	0	88.73721	23.96887	89.42350	23.49477
504	Chitra (Chuadanga)	SW-34	157.08	0	0	88.80902	23.48933	88.80902	23.48933
505	Kumar (Chuadanga)	SW-10	68.72	0	0	89.17051	23.73558	89.42350	23.49477
506	Kaliganga	Undefined	23.04	0	0	89.15862	23.86652	89.17051	23.73558
507	Passur (Branch)		15.14	0	0	89.65135	22.69539	89.57766	22.66724
508	Bhola Khal (Bagerhat)		7.52	0	0	89.68191	22.67201	89.64852	22.63334
509	Harihar		8.70	0	0	89.22587	22.92585	89.25723	22.87290
510	Fatki		48.83	0	0	89.43363	23.30641	89.32304	23.52164
511	Begotia		42.05	0	0	89.28155	23.42885	89.10236	23.56536
512	Haparkhali		43.91	0	0	89.34821	22.83001	89.14395	22.90729
513	Mathabangha		25.17	0	0	88.74416	23.57449	88.85006	23.65525
514	Dholai		52.27	0	0	91.83680	24.22531	91.82554	24.48445
515	Juri		21.49	0	0	92.15934	24.52477	92.06865	24.61723
516	Bibiana		24.41	0	0	91.64209	24.65022	91.49532	24.62550
517	Chamti		6.67	0	0	91.49032	25.00521	91.53975	25.04038
518	Narsunda		9.51	0	0	90.81670	24.50199	90.80644	24.44241
519	Aiman, Akhila		60.59	0	0	90.24019	24.71209	90.46432	24.45851
520	Louhajang		49.90	0	0	90.00785	24.13976	89.84096	24.28674
521	Haraboti		38.49	0	0	89.15392	25.22855	89.09585	25.07219
522	Ghirnai		62.32	0	0	89.13186	25.44346	88.94647	25.66843
523	Akhira Maccha		15.59	0	0	89.05914	25.68248	88.99135	25.75575
524	Ghirnai		21.61	0	0	88.97230	25.66905	88.92113	25.74838
525	Buri Teesta		28.79	0	0	88.98946	26.08129	88.88170	26.18505
526	Dhepa		31.32	0	0	88.62132	25.64659	88.66512	25.86561
527	Tirnia		32.51	0	0	88.30550	26.11614	88.15530	26.01996
528	Mogra	NE-65	35.04	7.53	0	90.86575	24.81023	90.72078	24.87710
			2,778	270.60					

4. EXISTING CHART ZONES

Hydrographic survey plays an important role in the proper planning and execution of various development programmes in respect of waterways and waterfronts of the country by keeping a continuous track of changes in the river regime. The Department of Hydrography of BIWTA has the chartered responsibility for carrying out hydrographic survey of the inland and coastal waterways of Bangladesh for providing navigational facilities to the mariners. In response to the above, this department is carrying out hydrographic survey and related hydraulic investigation works of about 3,500 km of inland and about 1,000 sq. km of coastal waterways annually and publishes Charts, Tide Tables etc. to facilitate dredging, conservancy and channel marking system for promoting maritime activities of the country.

Hydrographic chart provides information of the waterways and helps the users in smooth navigation and other relevant development works. It is noticed that the users face some difficulties in selecting and purchasing charts of their interest. In order to improve the situation, this department has compiled a list of chart in the form of a catalogue showing locations, length and period of survey which will enable users to select charts of their interest avoiding misuse of time, conveyance and complexities.

For the convenience of the management of large number of charts, surveying and users this Catalogue, BIWTA has divided the charts as well as the inland waterways in to 7 chart zones, which are:

- ARC – Aricha Section
- CD – Central Delta Section
- ED – East Delta Section
- ND – North Delta Section
- NED – North East Delta Section
- SD – South Delta Section
- WD – West Delta Section

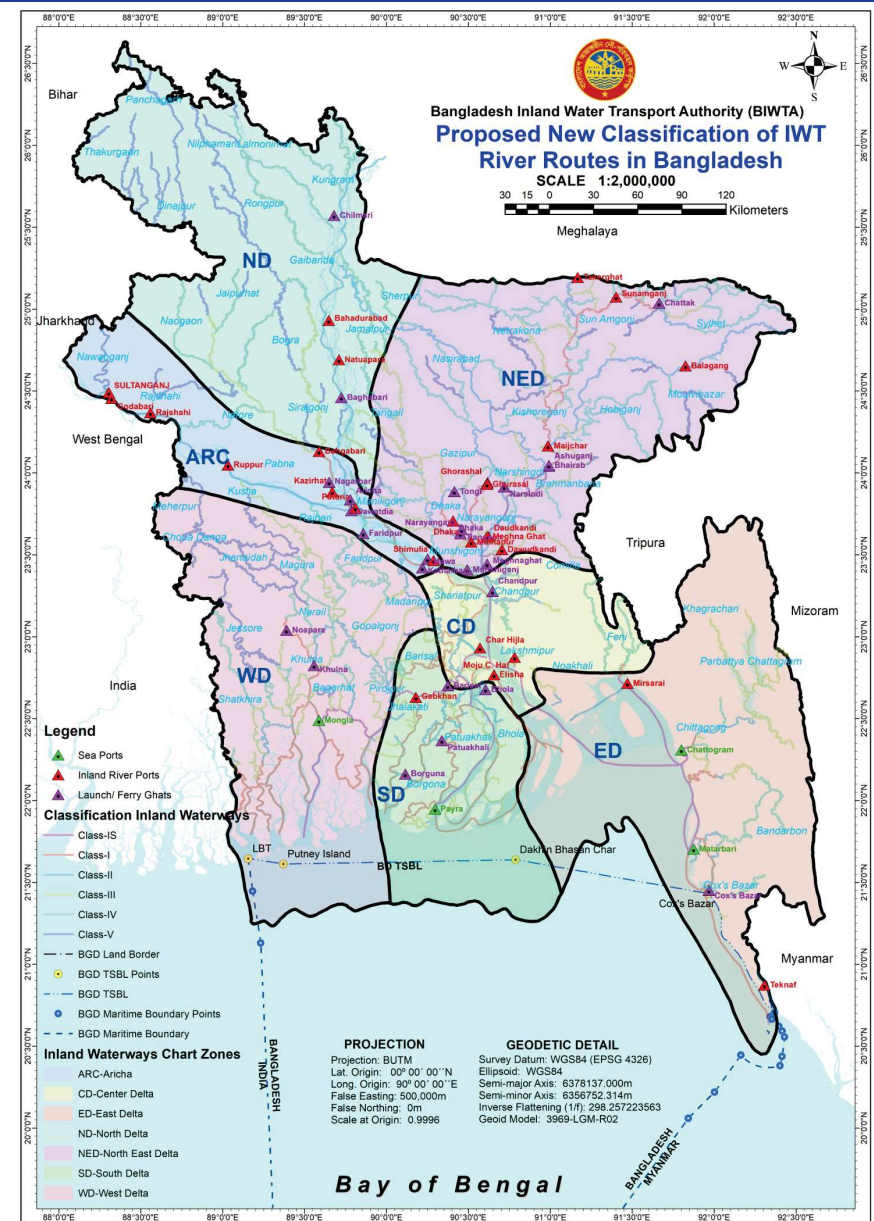


Figure 9: BIWTA Chart Zones.

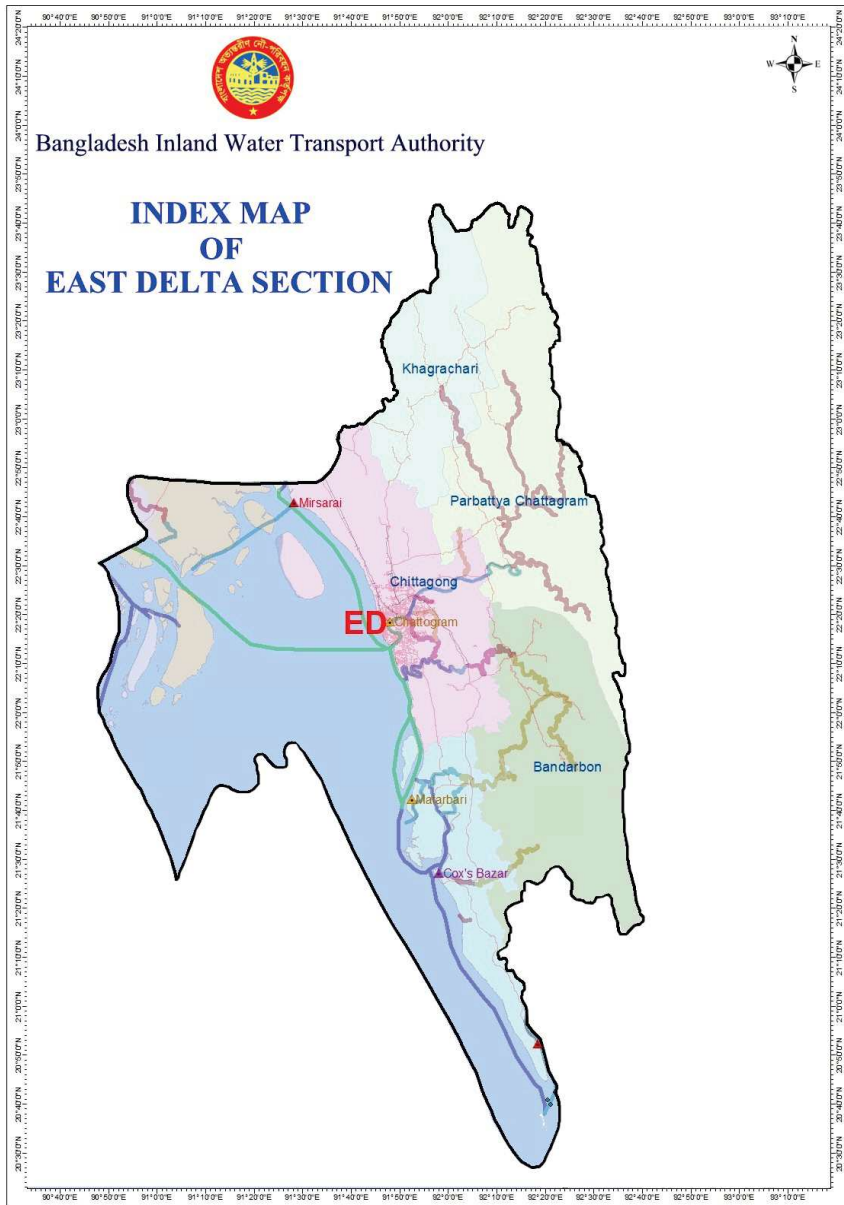


Figure 10: Index map of East Delta Section.

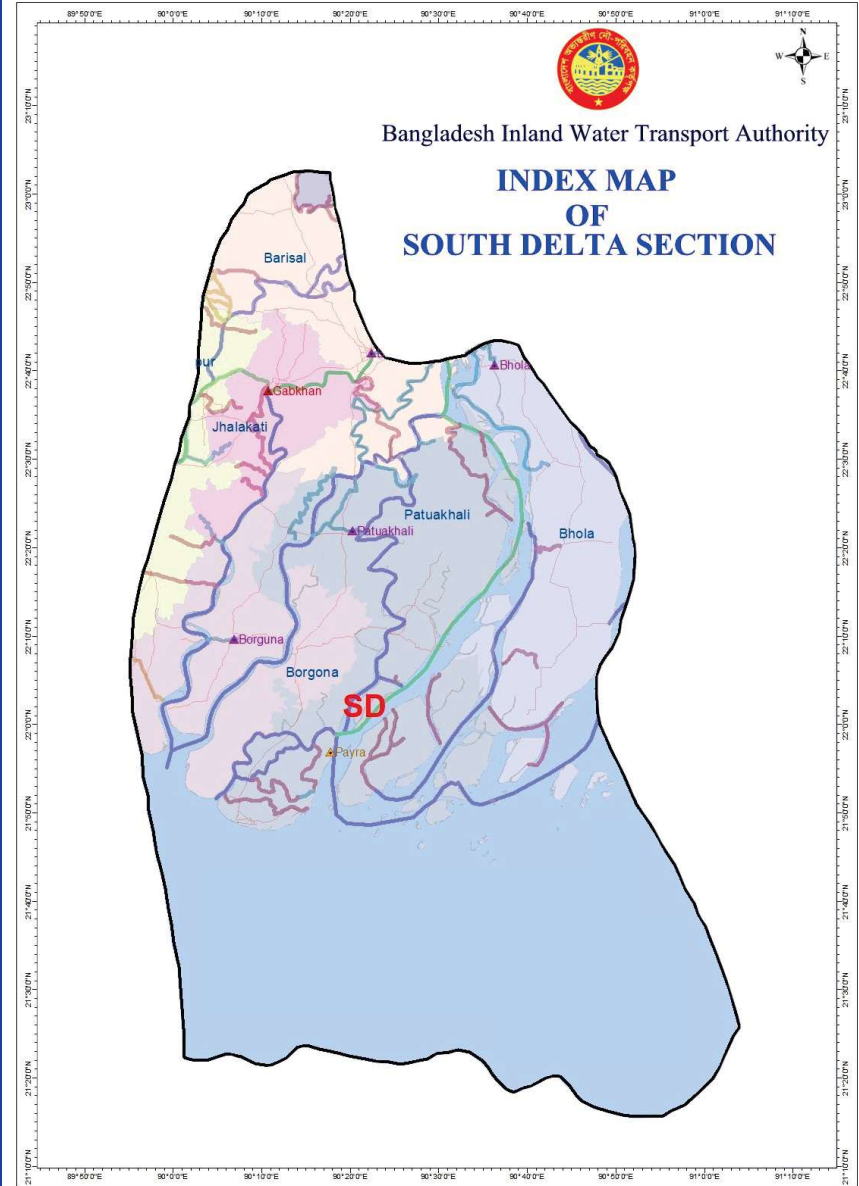


Figure 11: Index map of South Delta Section.

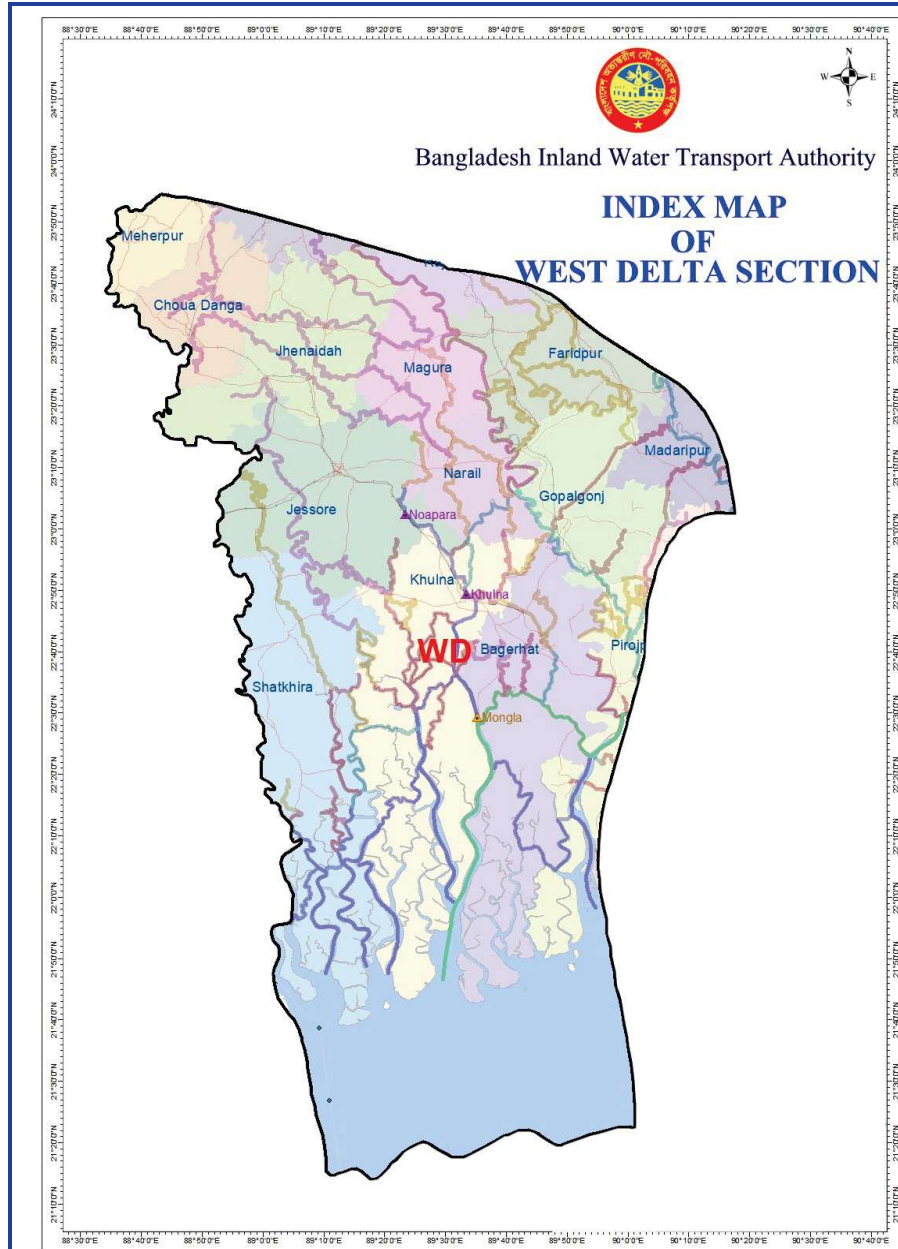


Figure 12: Index map of West Delta Section.

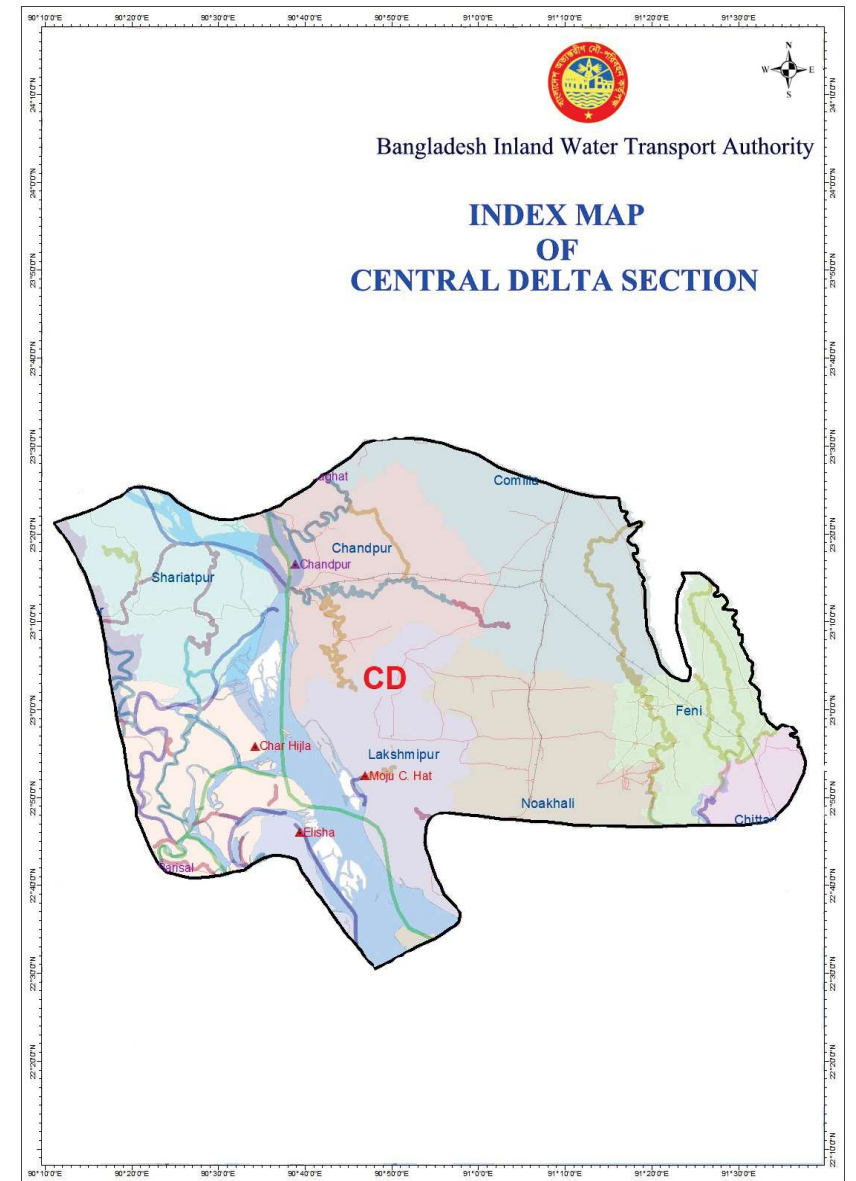


Figure 13: Index map of Central Delta Section.

Bangladesh Inland Water Transport Authority (BIWTA)
Catalogue of Charts

Bangladesh Inland Water Transport Authority
**INDEX MAP
OF
NORTH EAST DELTA SECTION**



Figure 14: Index map of North East Delta Section.

Bangladesh Inland Water Transport Authority
**INDEX MAP
OF
ARICHA SECTION**

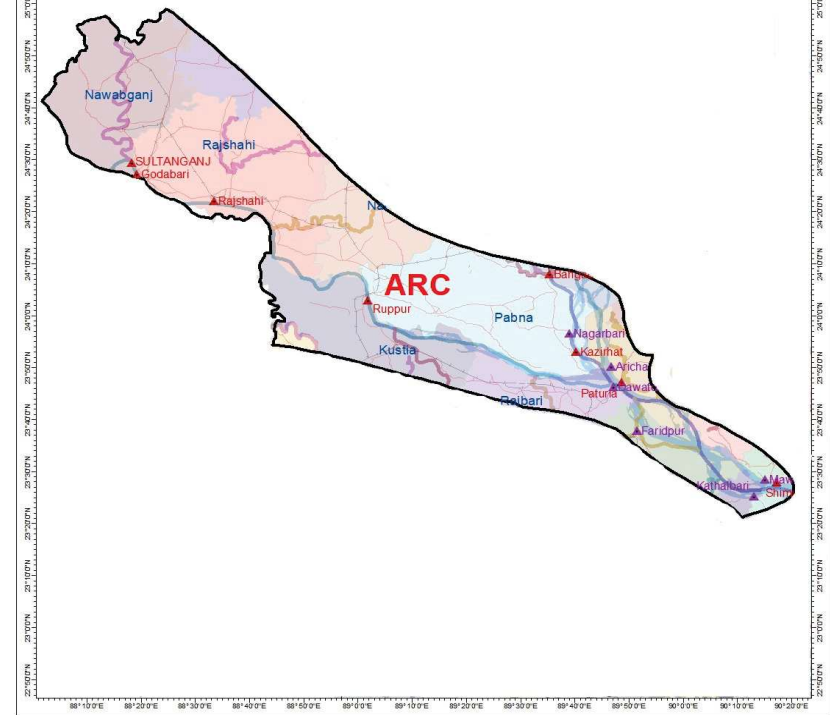


Figure 15: Index map of Aricha Section.

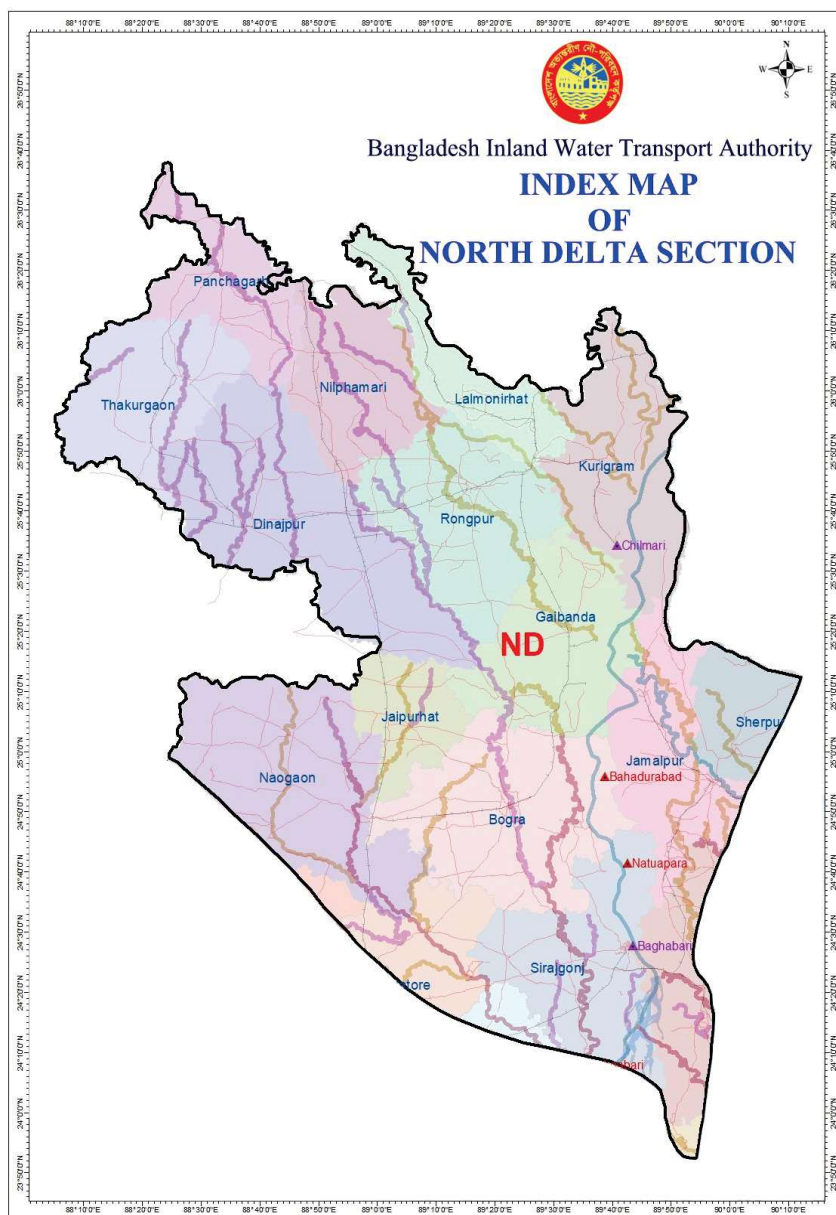


Figure 16: Index map of North Delta Section.

5. INLAND WATERWAYS OF BANGLADESH – MAIN INLAND ROUTES

In order to maintain the charts of IWT routes as per chart folio it is found suitable to arrange the charts as per different routes. The detail of the charts of IWT main routes of Bangladesh is given in the following tables and figures:

Table 5: Inland Water Ways of Bangladesh – Main Inland Routes

IWT Route Code	Name of the Inland Water Route	Remarks
IWTRoute of Bangladesh (National)		
010	Chattogram-Dhaka	
020	Kalapara - Dhaka	
030	Haringhata- Hogla	
040	Patharghata-Barishal	
050	Barishal - Dhaka	
060	Khulna-Dhaka	
070	Khulna to Chanpatala (Nowapara)	
080	Garuikhali - Kotchandpur	
090	Sunamganj - Dhaka	
100	Tongi Port - Munshiganj	
110	Tongi - Dhaka	
120	Demra - Sutia Khali	
130	Sutia Khali- Nandina	
140	Kalaikandi -Salimganj	
150	Aricha to Beola	
160	Aricha-Dhaka	
170	Munshiganj to Bibirbazar	
180	Gopalpur-Kandipara	
190	KulirBhita-Laimpasa	
200	Kolma-Koirail	
210	Gagoria-Paschim Char Kali	
220	Lengutia- Char Bholanath	
230	Madaripur to Jhikarhati	
240	Bolibari-Kaliganj	
250	Char Shibpur	
260	Narayanpur-Kalamuria	
270	Gopalpur-Dantbhanga Bill	
280	Daulatpur-Gitwar	
290	Atpara-Raipur	
300	Purba Charpara-Mohanganj	
310	Mallikpur-Nazirganj	
320	Gaziria-Bazra	
330	Durlabhpur-Barek Tila	
340	Goalnagar-Sutang Bazar	
350	Aynar Gop-Bangalpara	

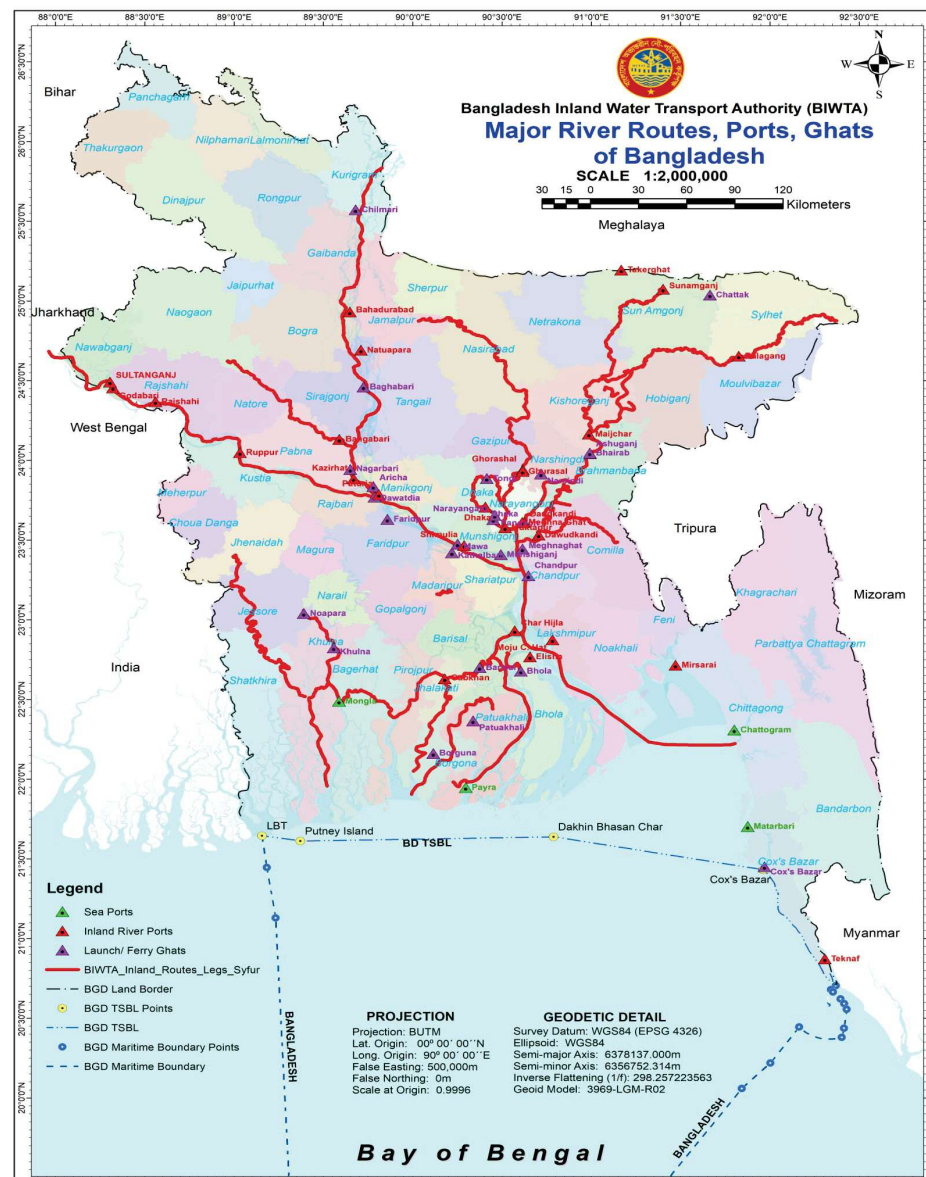


Figure 17: Inland Water Ways of Bangladesh – Main Inland Routes.

Bangladesh Inland Water Transport Authority (BIWTA)
Catalogue of Charts

360	Kalma-Saistaganj	
370	Madhyakhola-Bahadurpur	
380	Gopalpur-Kayajor	
390	Bobahala-Barayudi	
400	Kayathkanda-Basaura	
410	Sngachuri-Dhitpur	
420	Gopalpur-Kayjor	
430	Char Chashi-Gouripur	
440	Hazratpur-Islampur	
450	Paschim Teghoria-Monipur	
460	Shombhupara-Char Bausia	
470	Shahpuri Island-Moulavipara	
480	Kalurghat-Maischhari	
490	Shantinagar-Mahuri Project	
500	Khankhanabad-Dohazari	
510	Forer Mukh-Amtoli	
520	Donobag-Juraichhari	
530	Rasulpur-Fatehpur	
540	Kadachhara-Baghaichhari	
550	Gowalgaon-BGB Station	
560	Charergaon-Ramchandrapur	
570	Ramkrishnapur-Nagerkandi	
580	Guchchhagram-Senda	
590	Bakter Char-Tulshikhali	
600	Ganpara-Muniganj	
610	Dhatrar Char-Kajlakati	
620	Char Jatrapur-Dakshin Tilai	
630	Mahammadpur-Faterpur	
640	Moulovir Ghat-Mohammadpur	
650	Faterpur-Ranachandi Sheikhpara	
660	Dephlapara-Tintopar Char	
670	Tinerchar-Aidasbari	
680	Mohanpur-Kherkati	
690	Khasherhat-Asmat Ali Khan Bridge	
700	Laxmipur-Shuvagram	
710	Char Jatrapur-Dakshin Tilai	
720	Nunkhawa-Dhaner Kuti	
730	Saheber Char-Char Fasiatala	
740	Mohammadpur-Satpururia	
750	Ekhlaspur-Sreerayer Char	
760	Hasanpur-Patar Char	
770	Phuluar Char-Montola	
780	Tiner Char-Keskirhat	
Indo - Bangladesh Protocol Routes		
P010	Angtihar - Mongla	

P020	Zakiganj - Dhaka	
P030	Godagari - Chandpur	
P040	Daikhawa- Aricha	

5.1 IWT Routes and Legs

"Leg or Route Leg" A collection of legs (path segments between waypoints) that make-up the route. Each leg corresponds to the trip between two waypoints. In this catalogue a "Leg or Route Leg" refers to a segment of a navigational journey between two points, typically defined by start from one river Port/ Ghat to another Port/ Ghat. A voyage through inland waterways may be combination of more than one Legs.

5.2 Different IWT Routes (Nation and Protocol) and their Legs are given in the following table:

Table 6: Different IWT routes (nation and protocol) and their Legs.

IWT Routes of Bangladesh											
Route Code	Route name	1st Leg of the Route		2nd Leg of the Route		3rd Leg of the Route		4th Leg of the Route		5th Leg of the Route	
		Leg	Route	Leg	Route	Leg	Route	Leg	Route	Leg	Route
IWT Routes (National)											
010	Chattogram-Dhaka	Leg-011	Chattogram-Chandpur	Leg-012	Chandpur-Sadarghat						
020	Kalapara - Dhaka	Leg-021	Kalapara-Barishal	Leg-022 = Leg-051	Barishal-Chandpur	Leg-023 = Leg-012	Chandpur-Sadarghat				
030	Haringhata- Hogla	Leg-030	Haringhata- Hogla								
040	Patharghata_ Barishal	Leg-041	Patharghata-Jhalakati	Leg-042	Jhalakati-Barishal						
050	Barishal-Dhaka	Leg-051	Barishal-Chandpur	Leg-052 = Leg-012	Chandpur-Sadarghat						
060	Khulna-Dhaka	Leg-061	Khulna - Mongla	Leg-062	Mongla - Awlia	Leg-063	Awlia- Barishal	Leg-064=Leg-011	Barishal-Chandpur	Leg-065=Leg-012	Chandpur-Sadarghat
070	Khulna to Chanpatala	Leg-070	Khulna - Chanpatala								
080	Garuikhali - Kotchandpur	Leg-081	Garuikhali - Tala	Leg-082	Tala - Trimohini	Leg-083	Trimohini - Jhikargachha	Leg-084	Jhikargachha-Kotchandpur		
090	Sunamganj - Dhaka	Leg-091	Sunamganj-Ashuganj	Leg-092	Ashuganj- Munshiganj	Leg-093 = Leg-010	Munshiganj-Sadarghat				
100	Tongi Port - Munshiganj - Sadarghat	Leg-101	Tongi - Demra (North Part)	Leg-102	Tongi - Demra (South Part)	Leg-103	Demra - Munshiganj	Leg-104 = Leg-093	Munshiganj-Sadarghat		
110	Tongi - Dhaka	Leg-111	Tongi - Sadarghat (North Part)	Leg-112	Tongi - Sadarghat (South Part)						
120	Demra - Sutia Khali	Leg-121	Demra - Toke	Leg-122	Toke - Mazhati	Leg-123	Mazhati - Sutia Khali				
130	Sutia Khali- Nandina	Leg-131	Sutia Khali - Mirdhapara	Leg-132	Mirdhapara-Nandina						
140	Kalaikandi -Salimganj	Leg-141	Kalaikandi - Ramchandrapur	Leg-142	Ramchandrapur - Salimganj						
150	Baghabari - Beola	Leg-151	Baghabari - Naokhada	Leg-152	Naokhada - Beola						
150_A	Aricha-Baghabari	Leg-150_A	Aricha-Baghabari								
160	Aricha-Dhaka	Leg-161	Aricha - Kathalbaria	Leg-162	Kathalbaria - Chandpur	Leg-163 = Leg-012	Chandpur-Sadarghat				
170	Munshiganj to Bibirbazar	Leg-171	Munshiganj-Khanebari	Leg-172	Khanebari-Bibibazar						
180	Gopalpur-Kandipara	Leg-180	Gopalpur-Kandipara								
190	KulirBhita-Laimpasa	Leg-190	KulirBhita-Laimpasa								
200	Kolma-Koirail	Leg-200	Kolma-Koirail								

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210	Gagoria-Pashim Char Kali	Leg-210	Gagoria-Paschim Char Kali								
220	Lengutia- Char Bholanath	Leg-220	Lengutia- Char Bholanath								
230	Madaripur to Jhikarhati	Leg-230	Madaripur to Jhikarhati								
240	Bolibari-Kaliganj										
250	Char Shibpur										
260	Narayanpur-Kalamuria	Leg-261	Narayanpur-Kaliganj	Leg-262	Kaliganj-Kalamuria						
270	Gopalpur-Dantbhanga Bill										
280	Daulatpur-Gitwar	Leg-281	Daulatpur-Maheswarkhali	Leg -282	Maheswarkhali-Gitwar						
290	Atpara-Raipur	Leg-291	Atpara-Baluakandi	Leg-292	Baluakandi-Raipur						
300	Purba Charpara-Mohanganj										
310	Mallikpur-Nazirganj										
320	Gaziria-Bazra	Leg-321	Gaziria-Laipur	Leg-322	Horipur-Bazra						
330	Durlabhpur-Barek Tila	Leg-331	Durlabhpur-Nawahat	Leg-332	Nawahat-Barek Tila						
340	Goalnagar-Sutang Bazar										
350	Aynar Gop-Bangalpara										
360	Kalma-Saistaganj										
370	Madhyakhola-Bahadurpur										
380	Gopalpur-Kayajor										
390	Bobahala-Barayudi										
400	Kayathkanda-Basaura										
410	Sngachuri-Dhitpur										
420	Gopalpur-Kayjor										
430	Char Chashi-Gouripur										
440	Hazratpur-Islampur										
450	Paschim Teghoria-Monipur	Leg-451	Paschim Teghoria-Miragaon	Leg-452	Miragaon-Monipur						
460	Shombhupara-Char Bausia										
470	Shahpuri Island-Moulavipara										
480	Kalurghat-Maischhari										
490	Shantinagar-Mahuri Project										
500	Khankhanabad-Dohazari										
510	Forer Mukh-Amtoli										
520	Donobag-Juraichhari										
530	Rasulpur-Fatehpur										
540	Kadachhara-Baghaichhari										
550	Gowalgaon-BGB Station										
560	Charergaon-Ramchandrapur										
570	Ramkrishnapur-Nagerkandi										
580	Guchchhagram-Senda										
590	Bakter Char-Tulshikhali										

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600	Ganpara-Muniganj										
610	Dhatrar Char-Kajlakati										
620	Char Jatrapur-Dakshin Tilai	Leg-621	Char Jatrapur-Ansarer Hat	Leg-622	Ansarer Hat-Dakshin Tilai						
630	Mahammadpur-Faterpur	Leg-631	Mahammadpur-Shrifpur	Leg-632	Shrifpur-Faterpur						
640	Moulovir Ghat-Mohammadpur										
650	Faterpur-Ranachandi Sheikhpara										
660	Dephlapara-Tintopar Char										
670	Tinerchar-Aidasbari										
680	Mohanpur-Kherkati										
690	Khasherhat-Asmat Ali Khan Bridge										
700	Laxmipur-Shuvagram										
710	Char Jatrapur-Dakshin Tilai	Leg-701	Laxmipur-Konapara	Leg-702	Konapara-Shuvagram						
720	Nunkhawa-Dhaner Kuti										
730	Saheber Char-Char Fasiatala	Leg-731	Saheber Char-Tarki	Leg-732	Tarki-Char Fasiatala						
740	Mohammadpur-Satpururia										
750	Ekhlaspur-Sreerayer Char										
760	Hasanpur-Patar Char										
770	Phuluar Char-Montola										
780	Tiner Char-Keskirhat										
IWT Route (Protocol Route)											
P010	Angtihara - Mongla	Leg-P010	Angtihara-Mongla								
P020	Zakiganj - Dhaka	Leg-P021	Zakiganj - Ashuganj (East Part)	Leg-P021	Zakiganj - Ashuganj (West Part)	Leg-P022 = leg-092	Ashuganj-Munshiganj	Leg-093 = Leg-010	Munshiganj-Sadarghat		
P030	Godagari - Chandpur	Leg-P031	Godagari-Aricha	Leg-P032 = leg-161	Aricha - Kathalbaria	Leg-P033 = leg-162	Kathalbaria - Chandpur				
P040	Daikhawa - Aricha	Leg-P041	Daikhawa - Aricha								
	Kept blank for future Route Legs										

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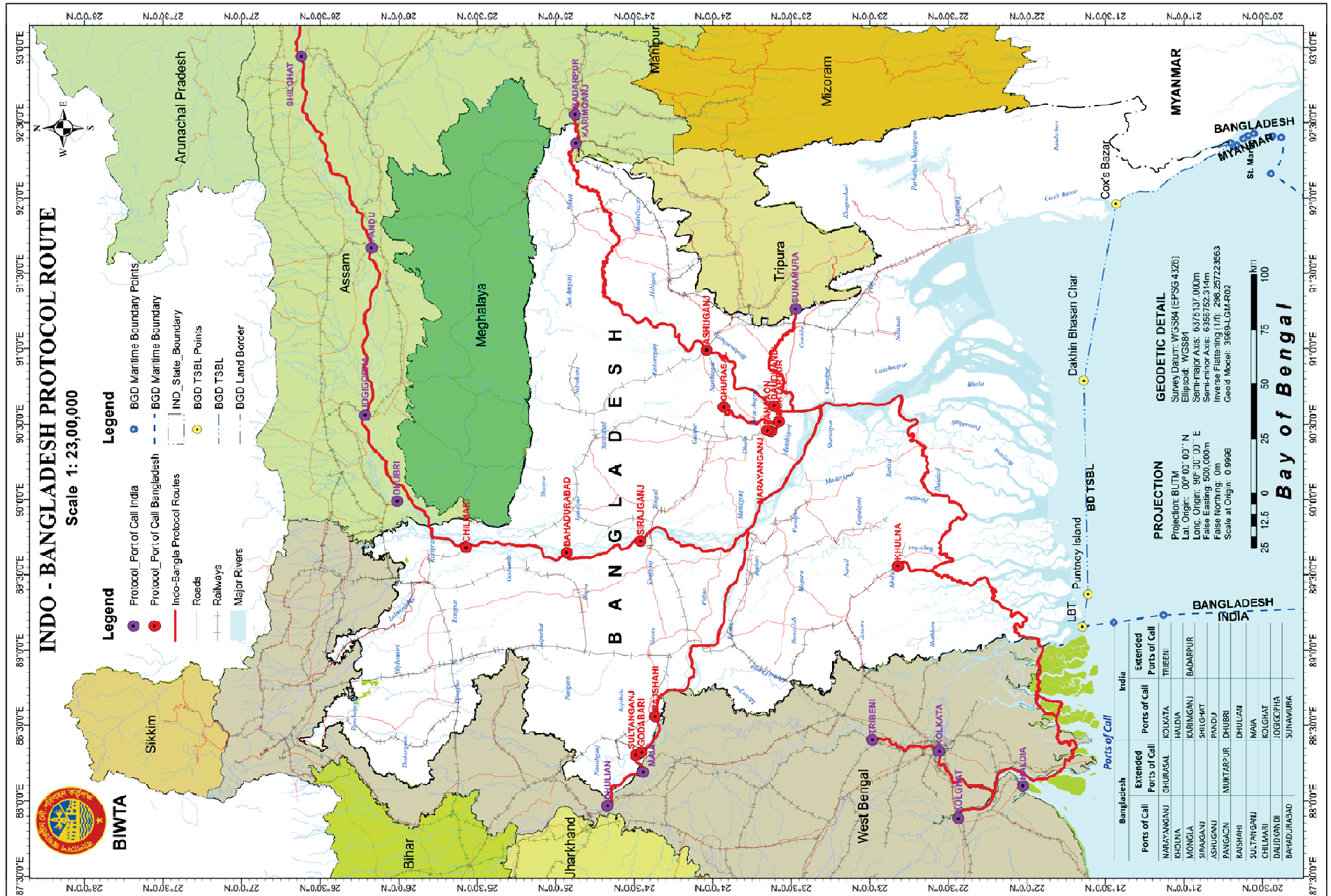


Figure 18: Indo-Bangladesh Protocol Routes and Ports of Call.

Connectivity with mainland India through Indo-Bangladesh Protocol Route

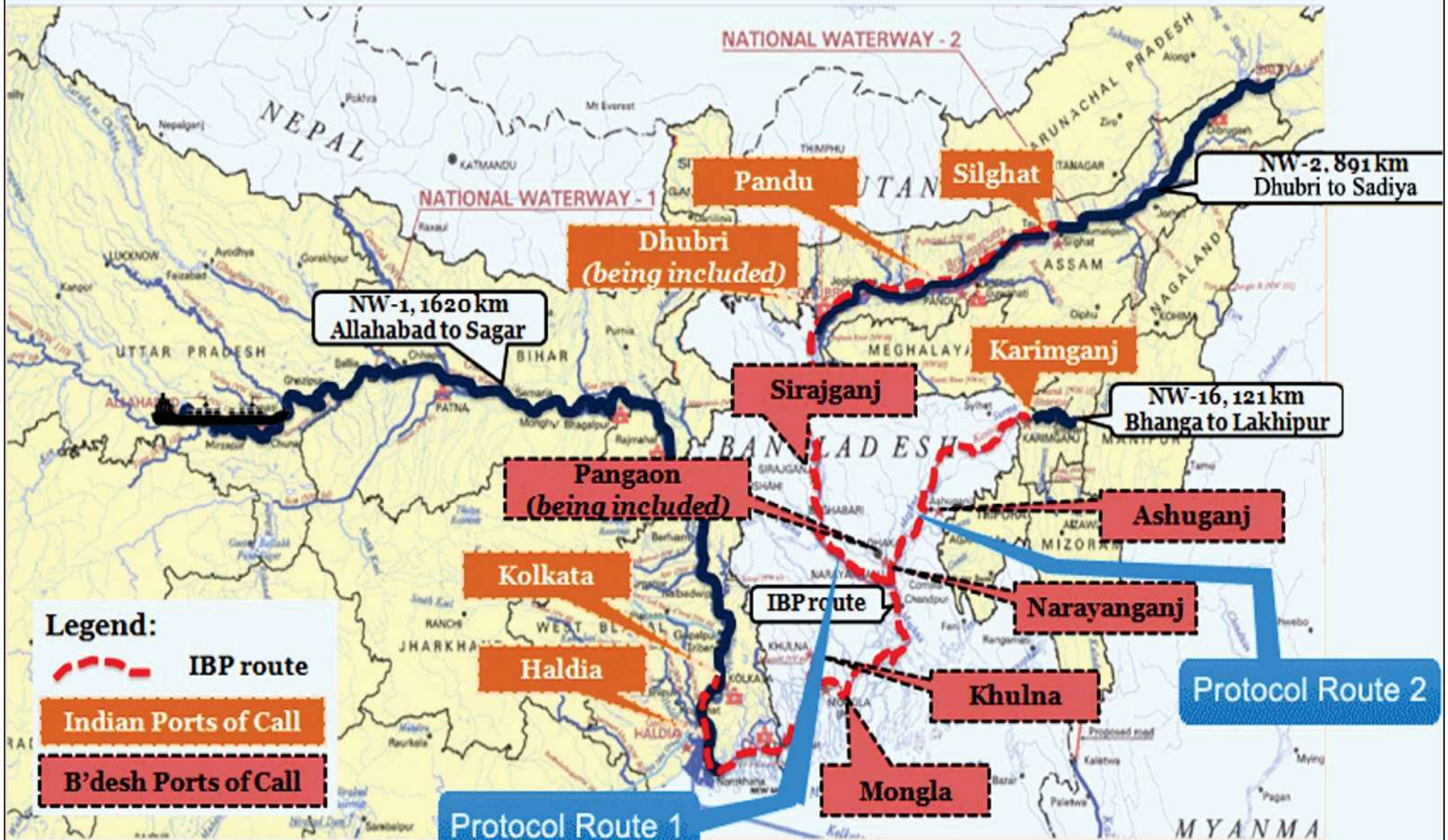
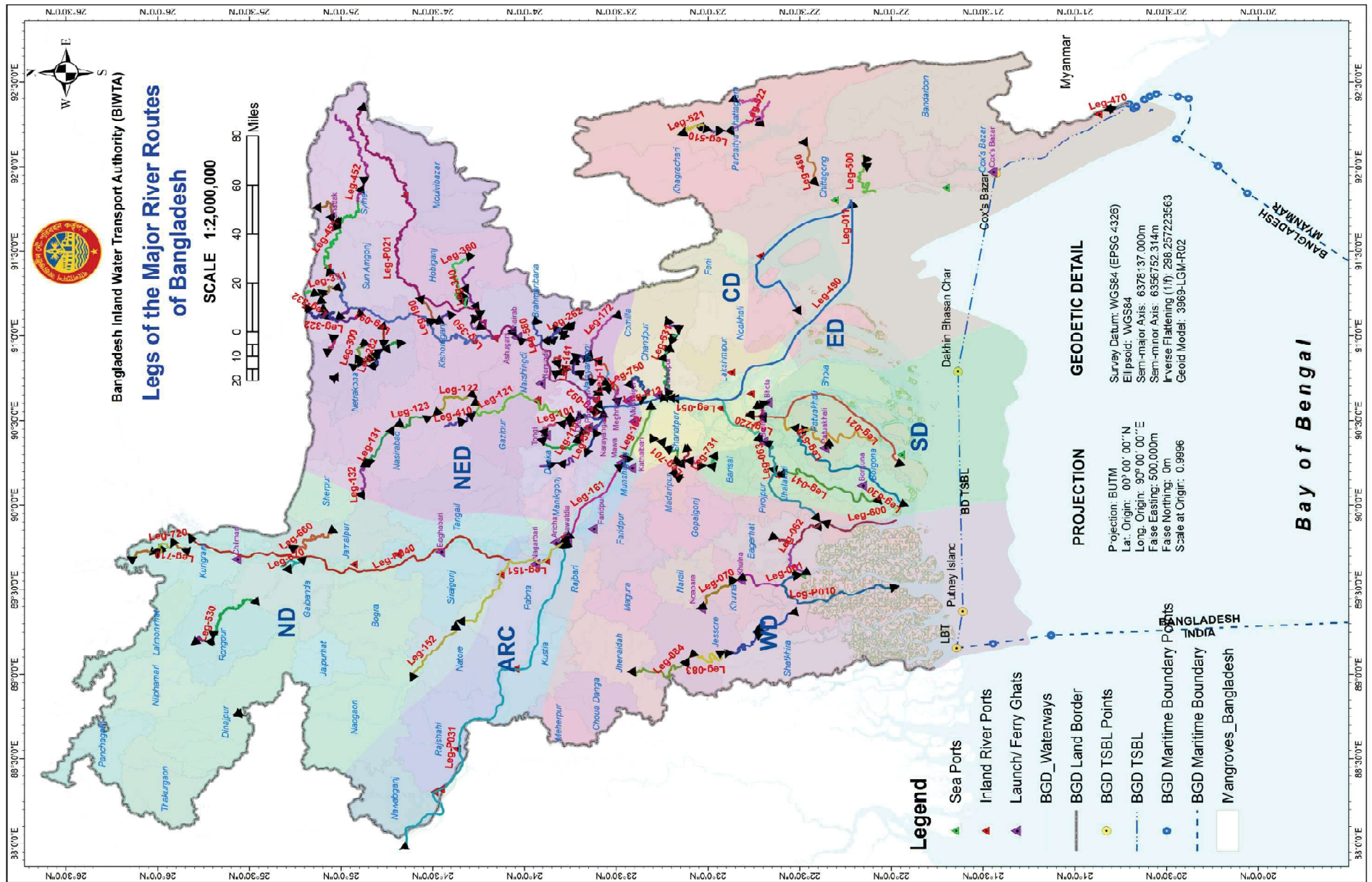


Figure 19: India Bangladesh Protocol Routes and Ports of Call.

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6. INDIA – BANGLADESH PROTOCOL ROUTES

6.1 Summary of the Protocol

In accordance with Article viii of the trade Agreement between Bangladesh & India Protocol on Inland Water Transit and Trade (PIWT&T) between the countries was signed to make mutually beneficial arrangements for the use of their waterways for commerce between the two countries and for passage of goods between two places in one country and to third countries through the territory of the other under the terms mutually agreed upon. In such cases, fees and charges, if liable as per international agreements, conventions or practices, may be applied and transit guarantee regime may be established through mutual consultations.

The Protocol was first signed in 1972 and since then it has been continuing without any interruption. This Protocol shall be automatically renewed in line with Bangladesh- India Trade Agreement. It shall automatically be extended for successive of five years unless either Government terminates the Protocol by giving a written notice of its intention to terminate to the other Government at list 6 months before the end such a term. In case of termination, it shall cease to operate on the expiry of the respective term. But termination shall not affect the actions taken or agreements reached pursuant to this Protocol.

6.2 Protocol Routes: The five river routes, under a protocol between India and Bangladesh, are (BIWTA, 2020):

Table 7: Protocol Routes.

Inland Water Route No	Name of the Inland Water Route
110	Kolkata-Chandpur-Pandu-Silghat-Kolkata
120	Kolkata-Chandpur-Karimganj-Kolkata
130	Silghat-Pandu-Ashuganj-Karimganj-Pandu-Silghat
140	Aricha- Rajshahi-Sultanganj-Maia-Dhulian-Aricha
150	Daundkandi-Sonamura-Daundkandi

6.3 Transshipment route:

Kolkata – Chandpur – Ashuganj (By waterways) – Akhaura – Agartala (By road)

6.4 Ports of Call:

There are five Ports of Call on each side to provide facilities to the vessels of the other country engaged in inter-country trade:

Table 8: Protocol Ports of Call.

Ports of Call			
Bangladesh		India	
Ports of Call	Extended Port of Call	Ports of Call	Extended Ports of Call
NARAYANGANJ	GHURASAL	KOLKATA	TRIBENI
KHULNA		HALDIA	
KHOLNA		KARIMGANJ	
MONGLA		SHILGHAT	BADARPUR
SIRAJGANJ		PANDU	
ASHUGANJ		DHUBRI	
PANGAON	MUKTARPUR	DHULIAN	
RAJSHAHI		MAIA	
SULTANGANJ		KOLGHAT	
CHILMARI		JOGIGOPHA	
DAUDKANDI		SUNAMURA	
BAHADURABAD			

6.5 Supply of Bunkers

The vessels of either country plying under the Protocol will be permitted to purchase fuels and essential stores at such points mentioned below:

Table 9: Supply and Bunkers.

Bangladesh	India
Sheikhbaria	Kolkata
Mongla	Budge budge
Khulna	Haldia
Barishal	Namkhana
Chandpur	Karimganj
Narayanganj	Dhubri
Sirajganj	Jogigopha
Chilmari	Pandu