

STATISTICS OF INLAND WATER TRANSPORT 2019-20



**Government of India
Ministry of Ports, Shipping & Waterways
Transport Research Wing
New Delhi**

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सत्यमेव जयते

**Government of India
Ministry of Ports, Shipping & Waterways
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PREFACE

Transport Research Wing (TRW) in the Ministry of Ports, Shipping & Waterways is the nodal agency for providing information/data on various facets of Shipping and Inland Water Transport. The present issue “**Statistics of Inland Water Transport 2019-20**” is the 27th issue in the series.

The present volume gives an overview of the current status of Inland Water Transport (IWT). It consists of 6 sections covering navigable waterways and infrastructure, cargo movement on waterways, commodity/route wise cargo movement, IWT activities across States/UTs, IWT activities undertaken by private sector companies, plan outlays/expenditure for IWT sector and accidents related to inland waterways

Though, the information contained in the volume is obtained from a large number of source agencies spread across both public and private sector, with the cooperation of the various stakeholders, we have been successful in reducing the time lag in bringing out collated data. We hope to receive their continued cooperation in future also.

I take this opportunity to thank all who have contributed to improve and complete this issue. Suggestions from the users of information are welcome to improve quality and coverage. The officers and staff of the TRW deserve special mention for the considerable effort put in by them leading to the release of this publication.

(Sanjeev Ranjan)

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Inland Water Transport: An Overview

INTRODUCTION

India is endowed with a variety of navigable waterways comprising river systems, canals, back waters, creeks, and tidal inlets. However, navigation by mechanized crafts is possible only over a limited length covering about half of the reported navigable waterways. The navigable waterways are confined to a few States and location specific. The Inland Water Transport (IWT) is functionally important in regions covered by the Brahmaputra and the Ganges in the North East and Eastern parts of the country; in the deltas of the rivers of Krishna and Godavari, Kerala and Goa where IWT offers natural advantages. IWT has an important role to play in many parts of the country since it offers an economic, energy efficient, employment intensive and almost pollutant free mode of transport service. In spite of the merits of IWT, its operation is constrained by several factors like shallow water, narrow width during dry weather, siltation and bank erosion, inadequate vertical and horizontal clearances in a large number of overhead structures making navigation throughout the year a daunting task.

POLICY INITIATIVES AND MILESTONES

2. Before 1950, there was no proper institutional set up for the development of IWT. A beginning was made during the First Plan when the Ganga-Brahmaputra Water Transport Board was set up as a Joint Venture of the Central Government and State Governments of Uttar Pradesh, Bihar, West Bengal and Assam. Its objective was to coordinate the efforts of the participating Governments in developing water transport on the Ganga and Brahmaputra Systems. Subsequently, the Government of India established the Inland Water Transport Directorate in the then Ministry of Shipping and Transport in 1965. In March, 1967, the Ganga-Brahmaputra Water Transport Board was merged with the IWT Directorate. Also, Central Inland Water Transport Corporation Ltd. (CIWTC) was set up at Kolkata in 1967 after taking over the assets and liabilities of the erstwhile River Steam Navigation Company Ltd.

3. In pursuance of the recommendations of the National Transport Policy Committee (NTPC), the Inland Waterways Authority of India (IWAI) was set up on October 27, 1986 by an Act of Parliament in 1985 for development, maintenance and regulation of National Waterways for shipping and navigation in the country. Three basic IWT related infrastructure for development of waterways are:

- (a) Fairway or navigational channel with desired width and depth
- (b) Terminals for berthing of vessels, loading/unloading of cargo and for providing interface with road and rail; and
- (c) Navigational aid for safe navigation.

4. The Ministry of Ports, Shipping & Waterways is entrusted with the overall responsibility of development of inland water transport in the country. Besides, assistance is being provided to States by the Central Government under Centrally Sponsored Schemes to develop waterways, terminals, navigational aids and undertake survey and studies related to IWT. The assistance under this scheme used to be upto 50% by way of loan on reimbursement basis. However, the pattern of assistance was revised in 2002-03 to 100% in the form of grant under the scheme to the North Eastern States, (including Sikkim) and 90% grant to other states for the development of Inland Water Transport. An Inland Vessel Building Subsidy Scheme was also in place since April, 2002 upto 31st March 2007. Under this scheme, subsidy up to 30% cost of Inland Vessel built in India for operation on National Waterways (NWs), Sunderbans and Indo-Bangladesh protocol routes could be availed. With a view to attract private sector participation in IWT a number of promotional measures and fiscal incentives have been provided. IWAI Act was amended in September 2001 to facilitate promotion of Joint Venture by IWAI; equity participation of Government/IWAI has been limited to a ceiling of 40% for BOT project; Tax exemptions similar to National Highways notified for IWT and customs duty concessions for specified IWT equipments were notified in 2002.

INLAND WATERWAYS AUTHORITY OF INDIA (IWAI)

5. The Inland Waterways Authority of India (IWAI), set up on 27th October 1986 under the Inland Waterways Authority of India Act, 1985, is entrusted with the regulation and development of Inland Waterways for the purpose of inland shipping and navigation. It's important functions are:

- a) Carry out surveys and investigations for the development, maintenance and better utilization of the National Waterways (NWs) and the appurtenant land for shipping and navigation by:
 - Providing infrastructural facilities, conservancy & river training works,
 - Controlling activities of dumping / removal of bed material,
 - Removing / altering any obstruction / impediment,
 - Regulating traffic and structure across / under NWs,
 - Disseminating navigational meteorological information,

- Coordinating with other modes of transport, providing pilotage and
- Entering into joint ventures concerning inland shipping by equity participation.

b) The Authority may also:

- Advises Central Government on IWT matters,
- Study the transport requirement in relation to other modes,
- Conduct Hydrographic Surveys & publish river charts,
- Assist State Governments for development of IWT,
- Develop & provide consultancy services,
- Conduct research for craft design, mechanization of country crafts, techniques of towage, landing & terminal facilities, port installations & survey techniques,
- Classification of Inland Waterways,
- Technical training of IWT personnel within & outside country.

c) The Authority will exercise the above functions with the prior approval of the Central Government.

Box 1: Inland Water Transport (IWT): A Historical Perspective

The commercial history of India gives a glorious account of growth of navigation on inland waterways. The location of a large number of towns on waterways, which were also centers of trade and commerce, much before railways, indicate the value of this mode in the past.

The era of mechanical propulsion in India started in 1823 when the first propelled craft-Diana-weighing 89 tonnes, sailed with passengers from Kulpi road to Calcutta, a distance of 80 kms on the Hooghly. In 1834, a regular monthly steamer service was established between Calcutta and stations upstream on the Ganga for carrying the East India Company's officials and stores. In 1842, a regular fortnightly service grew up between Calcutta and Agra on the river Yamuna. By 1863, a regular steam service commenced between Calcutta and Assam. A network of steamer services soon developed extending as far as Garh-Mukteshwar on the river Ganga in Uttar Pradesh, about 645 kms from Allahabad, and Ayodhya on the river Ghagra, about 325 kms at its confluence with the Ganga.

In the 19th century navigation by power crafts and country boats played a dominant role in development of trade and commerce along river banks and catchment areas of the navigable river and canal system. Bulk of traffic was, however, carried in country boats plying from Delhi and Nepal border to Assam. At its peak in 1876-77 country boat traffic registered at Calcutta were about 180,000 cargo boats, at Hooghly 124,000 cargo boats, and at Patna about 62,000 cargo boats.

The advent of railways and extension of its network marked a turning point for water-transport in India. To start with, construction of main railway lines gave a spurt to river traffic as the two modes supplemented each other, with waterways providing feeder service to railways. This complementarily between IWT and railways was, however, short-lived. The decline of navigation started by about 1860. By that time extension of East Indian Railways had begun to make itself felt. With an increase in rail network new centers of economic activity away from waterways developed. Gradually, IWT lost its superiority.

Source: Chapter 15, Inland Water Transport, Report of the National Transport Policy Committee, Government of India, Planning Commission, May 1980

NAVIGABLE WATERWAYS & INFRASTRUCTURE

6. Length of waterways along with its navigable length is an indicator of inland water potential of a State. Details of State-wise navigable waterways in India during 2019-20 are given in Table 1.1 (Section 1). The details of infrastructure facilities available on state waterways as on 31.03.2020 are given in Table 1.3 (Section 1). Table 1 below gives Total and Navigable length of Waterways reported across States. It is observed that the maximum length of waterways is in the State of Uttar Pradesh with 6444 kms followed by West Bengal with 4741 kms & Assam with 4716 kms. However, the ratio of the navigable length to the total length of the river/canal better reflects the potential for IWT.

As per the available data presented in Table 1, it is observed that the ratio of navigable length to the total length is about 96.88% in the State of West Bengal; by contrast, in case of U.P. the ratio of navigable length to total length is a mere 6.60%. Other States with good inland water transport

prospects are Goa, Maharashtra and Kerala where waterways navigable length is 90.88%, 73.14% and 53.98% respectively of the total length of rivers/canals/lakes reported by these states. Total length of 171 rivers in these 13 states is 33923.71 Km of which is 44.35% is navigable length.

Table 1 : Total and Navigable Length of Waterways in different States –2019-20 (In kms)				
S. No.	State	Total Length of the Rivers/ Canals/ Lakes in State (Km.)	Navigable Length (Km.)	Percentage of Navigable Length to Total Length
1	Andhra Pradesh	3762	1160	30.83
2	Assam	4716	1938	41.09
3	Bihar **	3763	1391	36.97
4	Goa	274	249	90.88
5	Gujarat *	-	-	-
6	Karnataka	2902	1215	41.87
7	Kerala	2988.61	1613.24	53.98
8	Maharashtra	631	461.50	73.14
9	Odisha	2425	1555	64.12
10	Nagaland	276	276	100.00
11	Mizoram	790	155	19.62
12	Tamil Nadu	211.1	14	6.63
13	Uttar Pradesh **	6444	425	6.60
14	West Bengal	4741	4593	96.88
	Total	33923.71	15045.74	44.35
Source : State Governments Note : * Nil data reported for the year 2019-20 ** Pertains to 2016-17 as data was not received from these States for 2016-17 onwards.				

CARGO MOVEMENT ON MAJOR WATERWAYS

7. Table 2 provides a snap view of cargo moved on the three national waterways, waterways of Goa, Maharashtra, Gujarat & Sunder bans which carry most of the cargo traffic on India's Inland Waterways. Cargo moved on three national waterways along with their details is given in Table 2.1 & Table 2.2 (section 2). The total cargo movement on India's waterways comprising the six national waterways (NWs)(NW-1,2,3,4,94&44) and NWs in the State of Goa, Maharashtra, Gujarat & Sunderbans was 685.13 Lakh tones in 2019-20 as against 673.11 lakhs tones in 2018-19, reflecting an increase of 1.79 %. In terms of tonnage, Goa, Maharashtra, Gujarat & Sunderbans accounted for 4.31 %, 30.58 %, 45.27 and 5.06 % respectively of the total cargo volume in 2019-20.

In terms of tonne km (movement of one tonne of cargo over a distance of one km) there was an decrease by 6.36 % in 2019-20 over 2018-19 and cargo carried on Indian Waterways is 64.82 Kms (Tonne kms/ Cargo moved). Goa, Maharashtra, Gujarat & Sundarbans waterways, though accounted 85.2 % of the total cargo movement on inland waterways across India, in terms of tonne

Kilometer their share was 30.8 % only. In case of Gujarat and Maharashtra, high volume of cargo movement was carried over relatively short average distances of about 14.9 Kms and 7.5 Kms respectively leading to their intensive use. However, in the three National Waterways, although the volume of cargo traffic was relatively much small (14.66%), the average distance is 305.69 Kms. In case of National Waterway I (Ganga- Bhagirathi-Hooghly) the average distance over which cargo moved was relatively much longer at 335.21 Kms. In case of National Waterway II (The Brahmaputra) and National Waterway III (Champakara canal, Udyogmandal canal and West Coast canal) the distance traversed by cargo was on an average of 20.19 Kms and 18.68 Kms respectively in 2019-20.

Table 2: Cargo Movement on Waterways							
S. No.	Details of Waterway	Cargo Moved (lakh tonnes)			Tonne Kms (in lakh)		
		2017-18	2018-19	2019-20	2017-18	2018-19	2019-20
1	National Waterway No. I	54.79 (10.9)	73.49 (10.91)	91.12 (13.29)	27773 (67.2)	29003.84 (61.2)	30544 (68.77)
2	National Waterway No. II	31.62\$ (6.3)	28.72 (4.26)	3.93 (0.57)	614.69 (1.5)	561.00 (1.2)	79.34 (0.18)
3	National Waterway No. III	4.28 (0.9)	4.20 (0.6)	5.46 (0.80)	81.14 (0.2)	88.30 (0.18)	101.97 (0.23)
4	National Waterway No. IV		4.50 (0.7)	0.82 (0.12)	-	10.00 (0.02)	-
	Sub Total NWs	90.69 (18.1)	110.91 (16.5)	101.33 (14.78)	28468.83 (68.9)	29663.14 (62.6)	30725.31 (69.18)
5	Goa Waterways	111.62 (22.3)	37.72 (5.6)	29.52 (4.31)	5581.06 (13.5)	1886.4 (4.0)	1476.05 (3.32)
6	Maharashtra Waterways	183.37 (36.6)	203.98 (30.3)	209.52 (30.58)	5520 (13.4)	5972 (12.6)	1571 (3.54)
7	Gujarat Waterways (from October 2017)	115.20 (23.0)	288.20 (42.8)	310.15 (45.27)	1728 (4.2)	4300 (9.0)	4652 (10.48)
8	Sunderban Waterways	-	32.3 (4.8)	34.61 (5.06)	-	5600 (11.8)	5988 (13.48)
	Grand Total	500.88	673.11	685.13	41297.89	47421.54	44412.36

Source : (i) Inland Waterways Authority of India for National Waterways , Gujarat Waterways & Sunderban Waterways
(ii) Data for Goa Waterways include the data received from Ports department, Govt of Goa and the data received from the Mormugao Port Trust (MPT).
(iii) Maharashtra Maritime Board for Maharashtra Waterways.

Note :

1. Cargo handled in Kolkata-Bangladesh-Kolkata route is included in the traffic on National Waterway No. I. The route is a link between NW-I & NW-II through Bangladesh
2. Figure within brackets indicates percentage to the total.

NATIONAL WATERWAYS (NW)

Box 2: Criteria for declaration of National Waterway

- It should possess capability of navigation by mechanically propelled vessels of minimum 300 tonnes (DWT) capacity (45m x 8m x 1.2m);
- It should have a fairway of minimum 40m wide channel with 1.4m depth in case of rivers and minimum 30m wide channel with 1.8m depth in case of canals. Exception may be given in case of irrigation-cum-navigation canals based on request of the concerned State Govt in order to safeguard the interest of irrigation;
- It should be a continuous stretch of minimum 50 kms; the only exception to be made to waterway length is for urban conglomerations and intra-port traffic; and
- It should pass through and serve the interest of more than one States or connect a vast and prosperous hinterland and major port, or either pass through or connect a strategic region where development of navigations is considered necessary to provide logistic support for economic development or national security, or connect place not served by any other mode of transport.

8. To promote Inland Water Transport (IWT) in the country, the following five waterways had been declared as National Waterways till the enactment of National Waterways Act, 2016 (effective from 12.4.2016):

- (a) Allahabad-Haldia stretch (1620 kms) of Ganga-Bhagirathi-Hooghly river system was declared National Waterway- 1 in 1982 and effective in October, 1986.
- (b) Sadiya-Dhubri stretch (891 kms) of the Brahmaputra river was declared National Waterways- 2 in September, 1988.
- (c) Kottapuram-Kollam stretch (168 kms) of the West Coast Canal along with Champakara canal (14 kms) and Udyogmandal canal (23 kms) was declared National Waterways- 3 in February, 1993.(Total 205 kms)
- (d) Kakinada- Pondicherry canals along with Godavari and Krishna rivers (1078 km) –as NW-4 in 2008 and
- (e) East Coast Canal integrated with Brahmani river and Mahanadi delta rivers (588 km) as NW-5 in 2008.

9. Out of these five NWs, first three waterways have already been developed substantially with fairway of required depth & width, navigational aids & terminal facilities for loading/unloading of cargo & ingress/ egress of the passengers and cargo & passenger vessels are moving on these NWs. Details of infrastructure facilities available on these three National Waterways is given in Table 1.2 (Section 1) Details of developmental activities in respect of NW-4 & NW-5 are placed in the later part of this report.

- 10.** A major boost to IWT Sector has been provided by the Government through enactment of the National Waterways Act, 2016 (No. 17 of 2016) dated 26th March 2016 which came into force w.e.f. 12th April 2016. This Act repealed previous Acts of existing five National Waterways No. 1,2,3,4 & 5 and further included new 106 Inland Waterways thus totalling 111 nos. waterways declared as National Waterways which cover a total length of 20,162.5 kms spread across 24 States in the country. National Waterways of India are well in line to become the lifeline of the country. Inland Water Transport (IWT) has a potential to supplement the overburdened Railways and congested Roadways. In addition to cargo movement, National Waterways may provide a convenient function in related activities such as carriage of vehicles (in Roll-on-Roll-off mode of cross-ferry) and Tourism including stay and entertainment. The details of 111 National Waterways are placed at **Annex-I**.
- 11.** The Infrastructure facilities provided by IWAI in the existing National Waterway No.1 (Ganga, Bhagirathi-Hooghly river system), NW-2 (river Brahmaputra) & NW-3 (West Coast Canal, Champakara Canal & Udyogmandal Canal in Kerala) are detailed at **Annex-II**.

DEVELOPMENT OF 106 NEW NATIONAL WATERWAYS

- 12.** Government declared 111 (including 5 existing and 106 new) National Waterways (NWs) spread over 24 states under the National Waterways Act, 2016, which came into effect from 12 April, 2016 to promote Inland Water Transport (IWT) in the country. A list of all the NWs with their approx. length is given in **Annex-1**. Efforts initiated towards undertaking the developmental activities for providing safe fairway channel and creating infrastructures, in phased manner on the identified new National Waterways from 2016-17.

13 Status of 106 new National Waterways

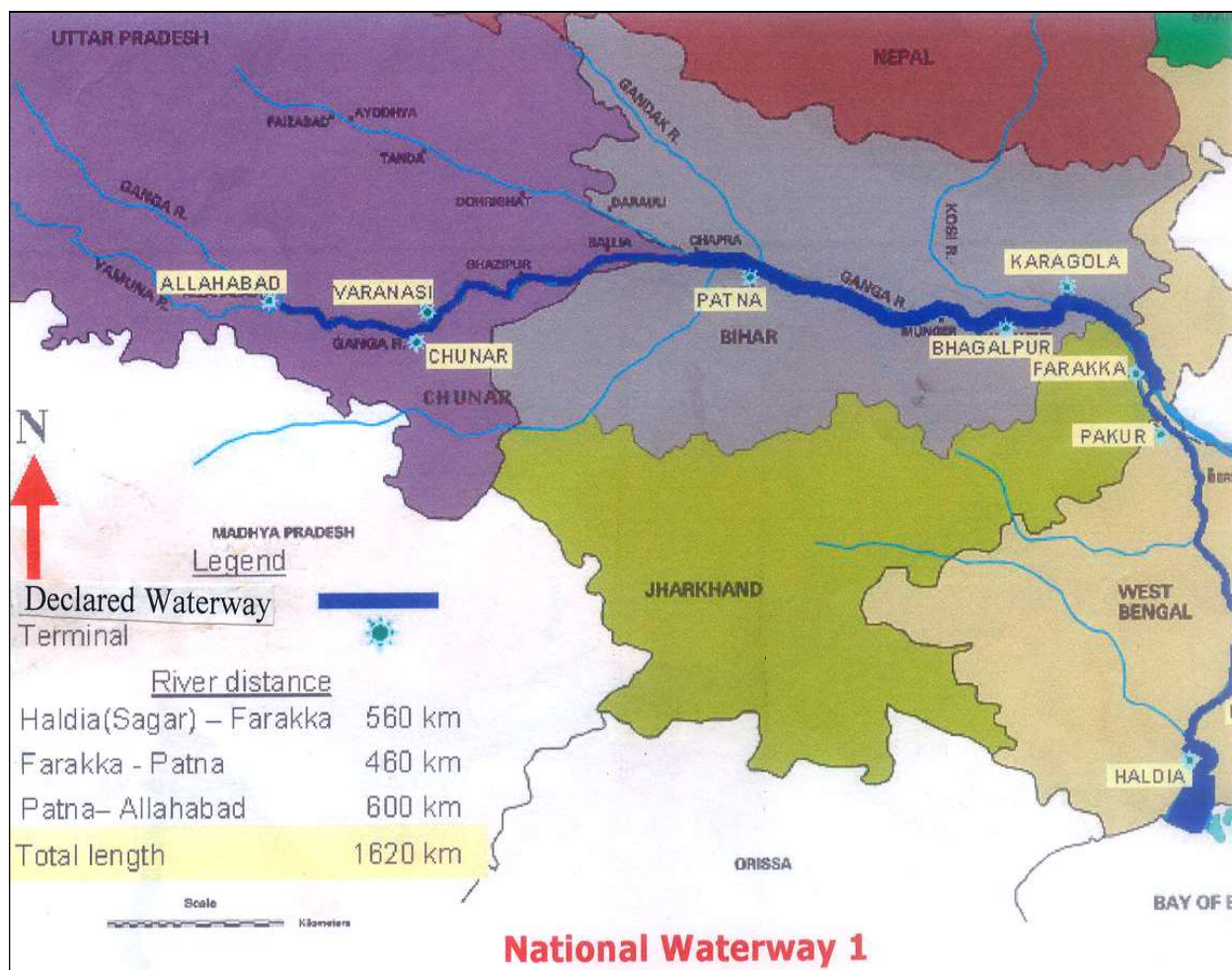
I. The Feasibility Reports (FRs) and the Detailed Project Reports(DPRs) of new 106 NWs have now been completed. After detailed analysis of the outcomes and recommendations of the FRs/ DPRs, input from stakeholders, 106 NWs have been categorized into three categories. The detailed parameters which have been analyzed and considered for above categorization has been elaborated in the Annex below mentioned each Categories:

1	Category 'A': Feasible NWs with Cargo	18 NWs	NW-9, 10, 16, 27, 68, 111, 25, 28, 37, 40, 44, 73, 85, 86, 97, 100, 57 & 94 (refer Annex-I)
2	Category 'B': Feasible NWs with only Tourism potential/ Ferry/ Cruise	25 NWs	NW- 6, 7, 8, 14, 15, 18, 20, 23, 24, 29, 30, 36, 42, 47, 50, 52, 83, 87, 88, 90, 91, 95, 104, 108 & 110 (refer Annex.-I)
3	Category 'C': NWs not feasible for Cargo/ Cruise	63 NWs	Remaining NWs except enlisted in 1 & 2 above

II. In addition to earlier existing 5 NWs as detailed in Para 8 above, new national waterways which are considered the most viable and where development activities have been initiated in Phase I are:

1. River Barak (NW-16),
2. River Gandak (NW-37),
3. Sunderbans (Protocol Route) Waterways (NW -97),
4. Cumberjua River (NW-27),
5. Mandovi River (NW-68),
6. Zuari River (NW-111),
7. Alappuzha – Kottayam –Athirampuzha Canal (NW -9) and
8. Rupnarayan River (West Bengal) (NW -86).

National Waterways-I (The Ganga-Bhagirathi-Hooghly)



14. The Ganga - Bhagirathi - Hooghly river system between Haldia (Sagar) and Allahabad (1620 km) was declared as National Waterway-1 (NW-1) in 1986. Since then IWAI is carrying out various developmental works on the waterway for improvement of its navigability and also development and maintenance of other infrastructure such as navigation aids and terminal facilities as laid down in the IWAI Act, 1985 (82 of 1985). During 2019-20, the important works carried out for development and maintenance of fairway, navigational aids and terminal facilities on NW-1 for maintenance of the following Least Available Depth (LAD):

(a)	Haldia – Farakka stretch	(560 km)	–	2.6 m to 3.0 m
(b)	Farakka – Barh stretch	(400 km)	–	2.1 m to 2.5 m
(c)	Barh – Ghazipur stretch	(290 km)	–	1.6 m to 2.0 m
(d)	Ghazipur – Chunar/Allahabad	(370 km)	–	1.1 m to 1.5 m

15. The volume of freight movement on National Waterways-I was 91.12 lakh tonnes in 2019-20 against 73.49 lakh tonnes in 2018-19 reflecting an increase of 23.99 %. The increase in traffic has

been due to steady increase in Indo – Bangladesh protocol route traffic on account of increase in flyash consumption by cement plants in Bangladesh and general increase in traffic on NW-1.

16. The composition of cargo movement on National Waterway-1 over the years is shown in Table 3 below. Building material (constituting Fly ash, stone chips etc.) constituted 51 % of traffic on NW-1 followed by Mix (24.9 %) and miscellaneous (23.7%). These three items together accounted for about 99.6 % of the total cargo moved on NW I during 2019-20.

Table 3 : Composition of Cargo Moved on National Waterway- I (In Tonnes)						
Name of the Commodity	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20
Building Material	2044784 (40.5)	2393416 (38.4)	2704742 (60.0)	3568909 (65.1)	4478790 (61.0)	4650148 (51.0)
Fertilizers	132299 (2.6)	124000 (2.0)	726260 (16.1)	0 (0.0)	0 (0.0)	0 (0.0)
Food items	527048 (10.4)	499024 (8.0)	137730 (3.1)	38340 (0.7)	260 (Neg.)	5134 (0.1)
Miscellaneous	17690 (0.4)	8010 (0.1)	59478 (1.3)	2816 (0.1)	5323 (0.1)	2162514 (23.7)
Mix	65312 (1.3)	0 (0.0)	0 (0.0)	1694196 (30.9)	2854087 (38.8)	2269124 (24.9)
Ore/Minerals	242000 (4.8)	31000 (0.5)	16761 (0.4)	0 (0.0)	0 (0.0)	0 (0.0)
POL/POL products	250418 (5.0)	273684 (4.4)	162520 (3.6)	0 (0.0)	0 (0.0)	0 (0.0)
Coal	1736492 (34.4)	2843001 (45.6)	668740 (14.8)	160262 (2.9)	924 (Neg.)	9409 (0.1)
Iron steel	34166 (0.7)	64989 (1.0)	29146 (0.6)	14839 (0.3)	9946 (0.1)	16068 (0.2)
Total NW I	5050209	6237124	4505377	5479362	7349330	9112397
Source: Inland Waterways Authority of India for National Waterways. Note: Figure within brackets indicates percentage to the total Neg. – negligible Mix – Food Items, Iron Steel & Building Material(Flyash,FO,HF) etc. Miscellaneous – Machinery, Houeholds, Steam Turbine, ODC Cargo, Harbour Crane and Turbine & Generator etc.						

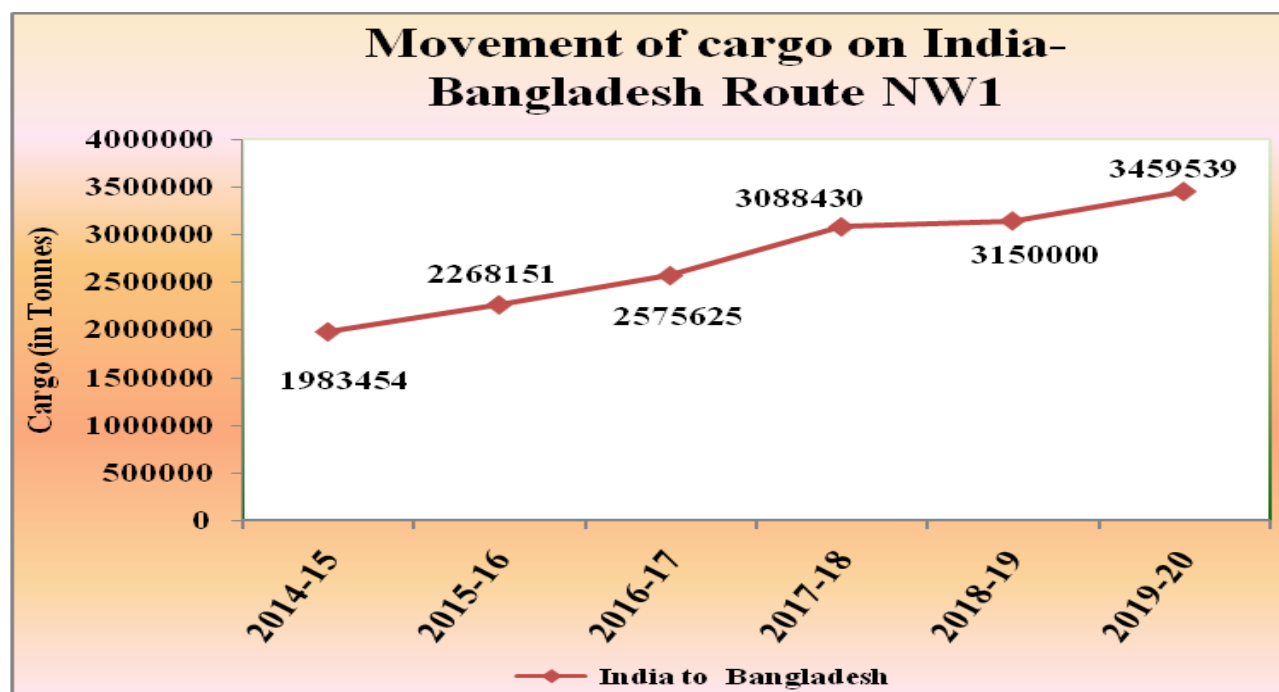
Cargo carried on Indo -Bangladesh Waterway Route

Box: 3- Indo-Bangladesh Protocol for Inland Water Transport

An Inland Water Transit and Trade Protocol exist between India and Bangladesh under which inland vessels of one country can transit through the specified routes of the other country. The existing protocol routes are (i) Kolkata-Pandu-Kolkata, (ii) Kolkata-Karimganj-Kolkata, (iii) Rajshahi-Dhulian-Rajshahi and (iv) Pandu-Karimganj-Pandu. For inter-country trade, four ports of call have been designated in each country. These are: Haldia, Kolkata, Pandu and Karimganj in India and Narayanganj, Khulna, Mongla and Sirajganj in Bangladesh. Under the protocol, 50:50; cargo sharing by India and Bangladesh vessels is permitted both for transit and inter country trade. While the protocol permits vessels of either country to carry Indo- Bangladesh trade cargo and prohibits one country's vessels carrying intra- country traffic of the other, Bangladesh vessels are permitted to carry Indian domestic cargo transiting Bangladesh.

17. Movement of cargo along India Bangladesh route of National Waterways I by Indian registered vessels have shown growth of 9.82% in year 2019-20 over that in 2018-19. The cargo moved over this route has increased to 3459539 tonnes in 2019-20 against 3150000 tonnes in 2018-

18. The graph below depicts trend in cargo movement on India-Bangladesh route (National Waterway-I) during the years 2014-15 to 2019-20.



19. The table 4 shows the cargo and the main commodities carried on India-Bangladesh route on National Waterway-I during the years 2014-15 to 2019-20.

Table 4: Movement of Cargo (in Tonnes) on India- Bangladesh route of NW I*(Tonnes)							
Route	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	Commodities
India to Bangladesh	1983454	2268151	2575625	3088430	3150000	3459539	Flyash (96.5%), Coal (1.4%),ODC(1.11%),Steel Material(0.52%) Stone chips(0.35%), Containers(0.03%)
Total	1983454	2268151	2575625	3088430	3150000	3459539	
Source: Inland Waterways Authority of India							
*Note- Data pertains to cargo carried on Indian registered vessels only.							

Jal Marg Vikas Project:

20. A Project on river Ganga (NW-1) called Jal Marg Vikas Project (JMVP) has been commissioned at an estimated cost of Rs.5,369.18 crores with the technical assistance and financial support of the World Bank (USD 375 million). The estimated cost of JMVP was revised to Rs. 4,633.81 crores by the Ministry of Ports, Shipping & Waterways in a review meeting held on 10.06.2020. The Project is scheduled to be completed by December, 2023. The objective of JMVP is to improve navigability of National Waterway-1 (NW-1) on Haldia-Varanasi stretch of Ganga-Bhagirathi-Hooghly River System by fairway development to provide an assured depth of 2.2 to 3.0 meters and a bottom channel width of 45 meters for at least 330 days in a year to make it navigable for vessels of up to 1500 - 2000 Dead Weight Tonnage (DWT) and to provide civil, structural, logistics and communications interventions required for this Project.

21. Major Projects of IWAI: Jal Marg Vikas Project (NW-1) Project: Status of implementation as on 31.05.2020 is detailed hereunder-

(a). Jal Marg Vikas Project (JMVP) on National Waterway-1 (NW-1) from Haldia to Varanasi (1390 km) was approved by the CCEA on 3rd January, 2018 at a cost of Rs. 5369.18 crores and further revised at an estimated cost of Rs. 4,633.81 crores in June 2020. The loan agreement with the World Bank was signed on 2nd February, 2018.

(b). Detailed Feasibility; Environmental & Social Impact Assessment; and Market Development Strategy Studies were carried out on NW-1 in February 2017, December 2016 & November 2017 to determine the development strategy on NW-1. Further, the detailed engineering for key infrastructure projects such as Varanasi MMT, Haldia MMT, Sahibganj MMT & Farakka Lock were prepared by the subsequently.

(c). The following mandatory clearances were obtained in connection with the implementation of JMVP:

(i) Clearance under the Wildlife Protection Act, 1972 for passage of vessels through the Kashi Turtle Sanctuary, Varanasi on 12th June 2017.

(ii) Coastal Regulation Zone clearance for the Haldia multimodal terminal on 6th November 2017.

(iii) Clearances from the Ministry of WR, RD & GR and NGRBA for the new navigation lock at Farakka on 28th February 2016.

(iv) MoEF&CC confirmed that inland waterways, terminals, jetties etc. are not covered under EIA Notification, 2006 requiring prior environmental clearance on 21st December 2017.

(d). The project implementation is planned to be completed by December 2023 and is progressing as per this time schedule. The project has achieved an overall financial progress of about 37.68% and the physical progress is about 38.98% as on 31.08.2020. Present status of civil works is as under:

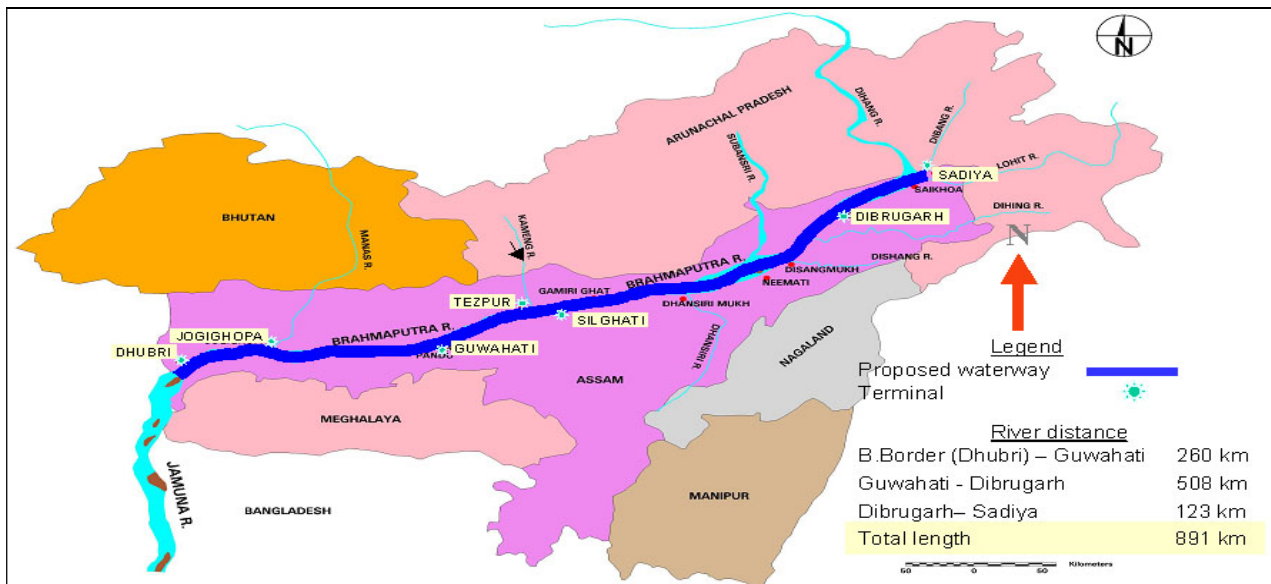
- Constructions of multi-modal terminals at Varanasi and Sahibganj have been completed and that of the multimodal terminal at Haldia and the Navigational Lock at Farakka have achieved substantial progress with 91.70% and 70.60% respectively.

- Contracts for providing Least Assured Depth of 3 m and bottom channel width of 45 m on the stretch between Farakka – Kahalgaon, Sultanganj-Mahendrapur and Mahendrapur-Barh have been awarded on 09th April 2018, 12th April 2018 & 12th April 2019 respectively and are

currently in progress with financial progress of Rs. 73.40 crores, Rs. 23.82 crores & Rs. 24.80 crores respectively. Dredging Management Plan is being reviewed by an Expert Committee including NTCPWC, IIT- Madras.

- Tender process for the remaining civil construction works of the project is in progress and majority of the procurement works are expected to be completed by end of FY 2020 or by first quarter of FY21.

National Waterways No. II (The Brahmaputra)



22. National Waterway- 2: River Brahmaputra from Dhubri (Bangladesh Border) to Sadiya (891 km) was declared as National Waterway -2 (NW-2) in 1988. The waterway is being developed with fairway of required depth and width, day and night navigation aids and terminals. The facilities created on NW-2 and planned in the near future are as under:

- Fairway development works/ River conservancy works:

A navigable fairway of 45 meter width and 2.5 meter least available depth (LAD) from Dhubri to Neamati (629km), 2.0m LAD from Neamati to Dibrugarh (139km) and 1.5 meter LAD from Dibrugarh to Sadiya (123km)/Oriumghat (92km) has been provided. Annual river conservancy works like Bandalling and maintenance dredging are carried out regularly to maintain the navigable

fairway. To maintain this LAD bandals were erected and dredging was carried out at various locations during 2018-19. The dredging is carried out with departmental dredgers. Presently, 2 Cutter Suction Dredgers (CSDs) and 2 Hydraulic Surface Dredgers (HSDs) are deployed in NW2.

(ii) Aids to navigation:

The entire channel has been marked with day navigation marks. Night navigation facilities comprising of solar operated lights on beacon have also been provided and maintained between Dhubri and Silghat (440km). Silghat is the last Port of Call on the Protocol route connecting Assam with Kolkata/ Haldia through waterways of Bangladesh. Differential Global Positioning System (DGPS) stations are provided at four locations viz. Dhubri, Jogighopa, Biswanthghat and Dibrugarh for safe navigation of vessels with electronic charts.

(iii)Terminals:

(a) Permanent Terminals:

Pandu Terminal: Pandu (Guwahati) is the most important location on NW-2 for development of river port. A low level RCC jetty and a high level RCC jetty for round the year loading and unloading of cargo and railway BG siding have been constructed. The port has been developed as a multi-modal modern Inland Water Transport Terminal, equipped with cargo handling facilities, transit sheds, and appropriate open space facilities/hard stands etc.

Ro-Ro Terminal at Dhubri: A permanent Ro-Ro terminal with a sloping jetty (which can be used for Ro-Ro operations as well as normal cargo loading and unloading by cranes) along with other facilities like administrative block, transit shed, open storage yard and customs office etc have been developed at Dhubri. Similar terminal is planned to be developed at Hatsingimari on the opposite bank after the river bank stabilization works there is executed by Brahmaputra Board. In the meantime, a floating terminal has been set up at Hatsingimari.

(b) Floating terminals:

Due to large variation (both horizontal and vertical) of water level in River Brahmaputra, construction of permanent terminals becomes very capital intensive. Hence, floating terminals have been provided at eleven identified locations viz. Hatsingimari, Dhubri, Jogighopa, Tezpur, Silghat, Biswanathghat, Neamati, Sengajan, Bogibil, Dibrugarh/Oakland and Oriumghat.

(iv) Development of Ship repair facility at Pandu:

Since N.E. Region does not have any vessel repair facility with dry docking, the vessels in the North East need to be taken through Bangladesh, to Kolkata for dry docking repair. To facilitate dry docking repair in NER, construction of a slipway at Pandu is planned.

As decided by the Competent Authority the work of slipway is to be executed through PPP model by inviting EoI and same is in progress.

(v) Pandu Approach Road:

Detailed Project Report (DPR) for road alignment from Pandu (Port) to National Highway-31 (a total length of 1.4 km) is under finalization. Consultancy report to be submitted by 15.02.2020.

(vi) Acquisition of Ro-Ro vessels:

IWAI is in the process of procuring four more Ro-Ro vessels for NER. These vessels are under construction at Cochin Shipyard Limited (CSL).

23. The total cargo traffic on NW II was 3.93 lakh tonnes (exclusive of the unorganized cargo traffic (IWTD Assam)) during 2019-20 as against 28.72 lakh tonnes during 2018-19. Commodity-wise composition of cargo movement over the years on this waterway is given below:

Table 5 : Composition of Cargo Moved on National Waterway - II (In Tonnes)						
Commodity	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20
Building Material	-	-	-	-	-	-
Food items	-	-	-	-	-	-
Miscellaneous	2491720 (100.0)	2584306 (100.0)	2590754 (100.0)	3162151 (100.0)	2871817 (100.0)	392767 (100)
Mix	-	-	-	-	-	-
Ore/Minerals	-	-	-	-	-	-
POL/POL Products	-	-	-	-	-	-
Total NW II	2491720	2584306	2590754	3162151	2871817	392767

Source: Inland Waterways Authority of India for National Waterways.

Note: Figure within bracket indicates percentage to the total

Neg. – negligible

Mix – Food Items, Iron Steel & Building Material (Flyash, FO, HF) etc.

Miscellaneous – Machinery, Steam Turbine, ODC Cargo, Harbour Crane and Turbine & Generator etc.

The traffic indicated for 2019-20 is exclusive of the IWT mode through IWT Govt. of Assam ferry ghats

National Waterway No. III (West Coast Canal)

24. West Coast Canal from Kottapuram to Kollam (168KM) together with Champakara canal (14Km) and Udyogmandal canal (23 KM) was declared as NW-3 in 1993. The National Waterways Act 2016 included stretch of West Coast Canal from Kottapuram to Kozhikode for a length of 160 km, thereby extending the total length of NW-3 to 365 km. IWAI is conducting channel developmental works that includes dredging for providing fairway of 2.20m LAD, channel width of 38 / 32m, 24 hours navigational facilities and terminal facilities equipped with mechanical cargo handling equipment. IWAI has constructed nine permanent terminals at Kottapuram, Aluva, Maradu, Vaikkom, Thanneermukkom (Cherthala), Alapuzha, Kayamkulam, Thrikkunnapuzha and Kollam. In addition, two terminals with Ro-Ro facilities have been constructed by IWAI at Bolghatty and Willingdon Island in Cochin Port limits. NW-3 is provided with 24 hours navigational aids in the entire route. An average tonnage of 7.57 lakh tonnes of cargo moved on NW-3 per annum in the last five years. IWAI has sanctioned INR 38 crore for reconstruction of lock gate at Trikkunnapzha across NW-3 for utilization of full capacity of NW-3 under execution through State Govt. of Kerala. The NW-3 is fully navigable.

25. The total volume of cargo moved on National Waterway III has increased upto 2015-16 thereafter continuously declined upto 2018-19 & increased significantly again in 2019-20. The volume of cargo increased to 5.46 lakh tonnes in 2019-20 from 4.20 lakh tones in 2018-19 recording an increase 29.92 %.

Table 6 : Composition of Cargo Moved on National Waterway - III (In Tonnes)						
Commodity	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20
Chemicals	96773 (11.5)	155567 (14.7)	195809 (19.0)	323501 (75.6)	387002 (92.1)	540997 (99.07)
Fertilisers	231951 (27.5)	216648 (20.4)	224903 (21.8)	57998 (13.6)	29403 (7.0)	0 (0.0)
Food items	-	-	-	-	-	-
Mix	512490 (60.7)	686350 (64.7)	608670 (58.9)	42860 (10.0)	247 (0.1)	5054 (0.93)
Ore/Minerals	262 (neg)	-	-	-	-	-
POL/POL products	2221 (0.3)	2477 (0.2)	3457 (0.3)	3630 (0.8)	3630 (0.9)	0 (0.0)
Total NW III	843697	1061042	1032839	427989	420312	546051
Source: Inland Waterways Authority of India for National Waterways. Note: Figure within brackets indicate percentage to the total Mix – Food Items, Iron Steel & Building Material (Flyash, FO, HF) etc.						

The cargo composition of freight traffic shows that Chemicals (99.07%) and Mix (0.93%) were the major commodities moved through NW-III during 2019-20. These commodities are primarily raw materials of Fertilizers and Chemicals Travancore Ltd (FACT) from Cochin port to FACT factory jetty on NW-3 traversing a distance of about 20 km.

26. The total cargo moved through all the three National Waterways (NW) decreased by 5.5% from 106.41 lakh tonnes during 2018-19 to 100.51 lakh tonnes during 2019-20. In 2019-20, share of cargo moved in volume terms across the three national waterways i.e NW I, (The Ganga-Bhagirathi- Hooghly) NW II (The Brahmaputra) and NW III (Champakara canal, Udyogmandal canal and west Cost canal) has been 90.66%, 3.91%, and 5.43% respectively of the total cargo moved on national waterways. In terms of tonne kilometers, the share of NW I, NW II and NW III is 99.41%, 0.26% and 0.33% of the total tonne kilometers moved. The highest share of NW I in tonne kilometers reflect long average distance travelled by cargo of 335.21 kms compared with an average distance of 20.19 kms for NW II and average distance of 18.67 kms for NW III in the year 2019-20. Table 7 gives cargo movement of National Waterways in Tonnage and Tonne Kilometers.

Table 7 : Cargo Movement on National Waterways									
Sl. No	Details of Waterway	Cargo Moved (lakh Tonnes)				Tonne Kms (in lakh)			
		2016-17	2017-18	2018-19	2019-20	2016-17	2017-18	2018-19	2019-20
1	National Waterway No. I	45.05 (55.4)	54.79 (60.4)	73.49 (69.1)	91.12 (90.66)	24598 (97.6)	27773 (97.5)	29003.84 (97.8)	30544 (99.41)
2	National Waterway No. II	25.91 (31.9)	31.62 (34.9)	28.72 (27.0)	3.93 (3.91)	503 (2.0)	614.69 (2.2)	561.00 (1.9)	79.34 (0.26)
3	National Waterway No. III	10.33 (12.7)	4.28 (4.7)	4.20 (3.9)	5.46 (5.43)	109 (0.4)	81.14 (0.3)	88.3 (0.3)	101.97 (0.33)
	Total NWs	81.29	90.69	106.41	100.51	25210	28468.83	29653.14	30725.31
Source: Inland Waterways Authority of India for National Waterways. Cargo handled in Kolkata-Bangladesh-Kolkata route is included in the traffic on National Waterway No. I. The route is a link between NW-I & NW-II through Bangladesh. Note : Figure within brackets indicate percentage to the total									

27. The details of the commodity composition of the cargo moved on the National Waterways I, II and III taken together are given in Table 8. It may be seen that the cargo movement of building material and chemicals has shown significant increase continuously from 2014-15 onwards while

Mix items and fertilizers have shown sharp decrease in volume terms on the National Waterways in 2019-2020 as compared to 2018-19.

Table 8: Composition of Cargo Moved on national waterways (In tonnes)						
Commodity	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20
Building Material	2044784 (24.4)	2393416 (24.2)	2704742 (33.3)	3568909 (39.4)	4478790 (42.1)	4650148 (46.3)
Chemicals	96773 (1.2)	155567 (1.6)	195809 (2.4)	323501 (3.6)	387002 (3.6)	540997 (5.4)
Fertilisers	364250 (4.3)	340648 (3.4)	951163 (11.7)	57998 (0.6)	29403 (0.3)	0 (0.0)
Food items	527048 (6.3)	499024 (5.0)	137730 (1.7)	38340 (0.4)	260 (Neg.)	5134 (0.1)
Miscellaneous	2509410 (29.9)	2592316 (26.2)	2650232 (32.6)	3164967 (34.9)	2877140 (27.1)	2555281 (25.42)
Mix	577802 (6.9)	686350 (6.9)	608670 (7.5)	1737056 (19.2)	2854333.9 (26.8)	2274178 (22.6)
Ore/Minerals	242262 (2.9)	31000 (0.3)	16761 (0.2)	0 (0)	0 (0)	0 (0.0)
POL/POL Products	252639 (3.0)	276161 (2.8)	165977 (2.0)	3630 (Neg.)	3660 (Neg.)	0 (0.0)
Coal	1736492 (20.7)	2843001 (28.8)	668740 (8.2)	160262 (1.8)	924 (Neg.)	9409 (0.1)
Iron & Steel	34166 (0.4)	64989 (0.7)	29146 (0.4)	14839 (0.2)	9946 (0.1)	16068 (0.2)
Total	8385626	9882472	8128970	9069502	10641459	10051215
Source: Inland Waterways Authority of India Note : Figure within brackets indicate percentage to the total Mix – Food Items, Iron Steel & Building Material (Flyash, FO, HF) etc. Miscellaneous – Machinery, Households, Steam Turbine, ODC Cargo, Harbour Crane and Turbine & Generator etc.						

28. There are 6 National Waterways in Goa out of which cargo traffic is transported on 2 waterways River Mandovi (NW-68) and River Zuari (NW-111). As mentioned earlier, traffic trend on Goa waterways has been driven by iron ore exports from Mormugao port. This iron ore is mined in the hinterland locations and is then transported on waterways to trans-shipment point located at a distance of 40 -50 km. It can be observed that traffic increased from FY 2014-15 to FY 2015-16 on account of lifting of iron ore mining ban by Supreme Court. While the exports declined in year FY2017-18 due to cancellation of iron ore mining permits by Supreme Court.

29. Maharashtra has 13 declared National waterways. Among them, movement takes place primarily on NW-10 (Amba river) and NW-85 (Kundalika river). The commodities in this traffic in FY 2019-20 are predominately Coal (51%), Iron Ore (33%), Lime Stone (6%), Steel Coils (5%) and remaining other Misc. commodities.

30. Traffic on Gujarat waterways is primarily EXIM and coastal cargo at Magdalla port, which is located upstream of River Tapi (NW-100). The average lead distance of traffic on this waterway is approximately 15 km (distance between the Magdalla river port and the mouth of the river). Cargo movement on Gujarat waterways was included as a part of National Waterways in October 2018 and hence historical traffic was not recorded under traffic on National waterways. Key export commodities transported on these waterways are steel, slag and Iron Ore while key import commodities on these waterways are Iron ore, Coal and Limestone. The total Traffic in FY 2019-20 was 31.01 Million Tonne. The commodities in this traffic were Iron Ore (42%), Coal (29%), Steel (8%), Lime Stones (7%), and other Misc. commodities (14%).

NATIONAL WATERWAYS 4 & 5

31. These waterways were declared as National Waterways in November 2008. Thereafter, Detailed Project Reports (DPRs) for development of both NWs were prepared. Subsequently, on the advice of Planning Commission, development of commercially viable stretches through PPP mode was explored by appointing a transaction adviser (consultant) with the financial assistance of Department of Economic Affairs (DEA) and Asian Development Bank (ADB). However, both the waterways were not found to be viable for development in PPP Mode. Hence, it was decided to develop both the waterways through Gross Budgetary Support (GBS) and/or external aid through multilateral resources like ADB or World Bank.

NATIONAL WATERWAY 4

32. NW-4 was declared in 2008 for the length of 1,078 km comprising of the Kakinada – Puducherry stretch of canals and the Kaluvelly Tank, Bhadrachalam – Rajahmundry stretch of river Godavari and Wazirabad – Vijayawada stretch of river Krishna in Andhra Pradesh & Tamil Nadu. With the notification of the National Waterways Act 2016, the total length of NW-4 got extended to 2,890 km.

- Dredging operation started in May 2017 and is completed as per present requirement in the stretch between Vijayawada and Muktyala. Work for installation of floating terminals at 4 locations and land acquisition for Ro-Ro terminals is in progress. Field work for Comprehensive hydrographic and navigation study in the stretch of Vijayawada-Kakinada and Rajahmundry –Polavaram (Phase-II) is completed and report is under finalization.

NATIONAL WATERWAY-5

33. NW-5, notified on 25.11.2008, comprises of Talcher–Dhamra stretch of river Brahmani, Geonkhali–Charbatia stretch of East Coast Canal, Charbatia–Dhamra stretch of Matai river & Mangalgadi–Paradip stretch of Mahanadi delta rivers with a total distance of 588 kms (497 km in Odisha and 91 km in West Bengal). MoU is being renewed between IWAI, Govt. of Odisha (GoO), Paradip Port Trust (PPT) and Dhamra Port Company Ltd. (DPCL), for developing the commercially viable stretch of 332 km between Paradip/ Dhamra and Talcher, in two phases.

Phase – I :- Dhamra / Paradip Port to Pankopal (201 Kms)

Phase – II :- Pankopal to Talcher (131 Kms).

34. NATIONAL INLAND NAVIGATION INSTITUTE (NINI)

- i. NINI was constructed by IWAI at Patna and has been functional from February, 2004. Induction courses for deck and engine ratings, preparatory courses for Serang and engine drivers, basic and advanced dredging courses, refresher courses for hydrographic surveyors, courses for repair and maintenance of vessels, etc. are conducted in NINI regularly. 768 candidates have been trained during the year 2019-20.
- ii. The administration and management of the Institute is done by IWAI Patna from 1st of December, 2018.
- iii. NINI has got upgraded to ISO 9001:2015 certifications from American Bureau of Shipping Classification Society on 23rd July, 2018.
- iv. Placement of NINI cadets as apprentice in IWAI is discontinued for more than 2 years. Now placement is done only through private operator in Inland Vessels (IV) sector.
- v. Inland Vessels (IV) Maneuvering Simulator is installed & fully functional presently. Same is being used to impart training to the candidates of Inland Vessel sector.
- vi. NINI has fully operational Marine Simulation Centre which conducts the following courses:

A) Training for IWAI Officials:

1. Preparatory course for I.V. Master I
2. Preparatory course for I.V. Master II

3. Preparatory course for Serang
4. Preparatory course for I.V. Engineer
5. Preparatory course for I.V. Eng Driver I
6. Preparatory course for I.V. Eng Driver II
7. Contract Management Training of IWAI Personnel
8. Overseeing of Ship building including Survey & Certificate of Inland Vessel
9. Basic Induction course for Hydrographic Surveyors, Equipment, Hypack& River Modeling Software
10. Basic Dredging Course
11. Riverine Navigation course
12. Refresher training for IWT Assam Personnel

B) Training for Inland water sector personnel (other than IWAI official):

1. Inland Vessel GP Rating
2. Preparatory course for I.V. Master I
3. Preparatory course for I.V. Master II
4. Preparatory course for Serang
5. Preparatory course for I.V. Engineer
6. Preparatory course for I.V. Eng Driver I
7. Preparatory course for I.V. Eng Driver II
8. Inland Vessel Maneuvering Simulator Course
9. Basic Dredging Course
10. Refresher Course for IWT Assam Personnel
11. Training of CRPF water wing Personnel
12. Training of BSF Water wing Personnel
13. Basic Safety (STCW) course

C) D.G. Shipping Approved Modular Course (For Foreign going vessels)

1. Basic Safety (STCW) course
2. NWKO (NCV) Competency course
 3. Electronic Chart Display Information System (ECDIS)
 4. Ship Maneuvering Simulator (SMS) course

5. Radar observer Simulator Course (ROSC)
6. Automatic Radar Plotting Aids (ARPA)

D) Value added Courses (For Foreign going vessels)

1. Bridge team Management
2. Bridge Resource Management
3. Enclosed Space Entry
4. Ship handling Simulator
5. Large Ship Handling Simulator

E) Customized Courses for BSDMA

1. Training of Boat Man & Boat owners for safe operation of country boats including development of course module.
2. Training of Surveyors & Registering officers (MVIs) of country boats including development of course module.
3. Training of Master Trainers for “Safe Swim Program” including development of course module.

F) Major technological assets and innovations used for providing training by the institute:

- Smart class room with audio visual facilities.
- Following simulators installed for training I.V. man power:
- Inland Vessel Maneuvering Simulator (IVMS).
- Cutter suction dredger (CDS) simulator.
- Training Vessel “T.S. Survekshak” for giving hands-on training.
- Swimming Pool for swimming training & basic STCW trainings

IWT ACTIVITIES – STATE GOVERNMENT

35. The number of vessels deployed and volume of cargo carried on Inland Waterways across the reporting States & UTs is given in Table 9. Details of State-wise inland water transport activities are given in table 3.1 & 3.2 (section 3).

Table 9: Number of Inland Water Vessels and Cargo Carried – State wise								
State/UT	Number of Vessels				Volume of Cargo Carried (thousand tonnes)			
	2016-17	2017-18	2018-19	2019-20	2016-17	2017-18	2018-19	2019-20
Assam	187	191	198	203	3871.07	706066.16	272873.15	367669.60
Bihar	138	138*	138*	138*	2.40	2.40*	2.40*	2.40*
Goa	311	266	250	244	116600.8	71902.10	14839.4	8200
Karnataka	66	66	66	37	29.98	93.27	0	24.45
Kerala	5556	7656	5953	5590	326.64	447.98	262.35	56098.80
Maharashtra	384	1166	1391	1663	17642.72	18336.59	20397.93	20951.51
Orissa	557	635	335	73	-	-	-	-
West Bengal	2155	2216	2327	2381	22654	36719	46930	56725
Tamil Nadu	2	2	2	2	-	-	-	-
Gujarat	-	-	495	454	-	-	-	-
TOTAL (reporting states)	9356	12336	11155	10785	161127.6	833567.5	355305.2	509671.76

Source: Govt. of States & U.T.'s

*: Pertains to 2016-17 as data for 2019-20 is not provided by the state

The total number of vessels in the States during 2019-20 was 10785 which is lower as compared to 11155 vessels in the year 2018-19. Kerala has reported the highest number of vessels 5590 followed by West Bengal (2381), Maharashtra (1663), Gujarat (454) and Goa (244). However, the volume of cargo handled through these vessels in the year 2019-20 was 509671.76 thousand tonnes. Assam has reported the highest cargo handled through waterways which was 367669.60 thousand tonnes followed by West Bengal 56725 thousand tonnes.

PERFORMANCE OF COMPANIES ENGAGED IN IWT

36. The data received from 42 IWT companies shows that amongst the reporting private companies the maximum number of vessels was held West Bengal Surface Transport Corporation Ltd. (86) followed by Hooghly Nadi Jalapath Paribahan Samabaya Samity, Kolkata (40), Jindal ITF Ltd. (28), Vedanta Limited (17) and VIVADA Inland Waterways Ltd. (16). Detailed performance of companies engaged in inland water transport activities is given in Table 4.1 & 4.2 (section 4).

The Maximum cargo of 1789.30 thousand tonnes was carried by Vedanta Limited followed by JSW Jaigarh Port Ltd. (1533.00 thousand tonnes), VIVADA Inland Waterways Ltd. (895.26 thousand tonnes), Jindal ITF Ltd. (625.27) and JSW Salav Steel Ltd. (555.56 thousand tonnes).

37. Cargo moved by top 15 reporting private companies in decreasing order of cargo moved along with the number of powered vessels employed in 2019-20 is given below in Table 10.

Table 10 : Top Fifteen Private Companies - Cargo moved along with Powered Vessels 2019-20		
Name of the Company	No. of Powered Vessels	Cargo moved ('000 tonnes)
1. Vedanta Limited	17	1789.30
2. JSW Jaigarh Port Ltd.	4	1533.00
3. VIVADA Inland Waterways Ltd.	16	895.26
4. Jindal ITF Ltd.	28	625.27
5. JSW Salav Steel Ltd.	9	555.56
6. Goa Ore Carriers	2	489.60
7. Maharshi Shipping Co.	6	284.56
8. Sesa Resources Ltd. Goa	2	251.75
9. Soham Shipping Pvt. Ltd.	6	224.21
10. Pennon Shipping	5	223.40
11. Kerala Shipping & Inland Navigation Co. Ltd	6	173.80
12. Nirakar Engineering Services Ltd.	2	162.00
13. Infrastructure Logistics Pvt. Ltd.	2	104.51
14. Lots Shipping Ltd.	2	95.36
15. V.M. Salgaocar sales international	2	92.84

Source: Private Companies/ Undertakings engaged in inland water transport activities

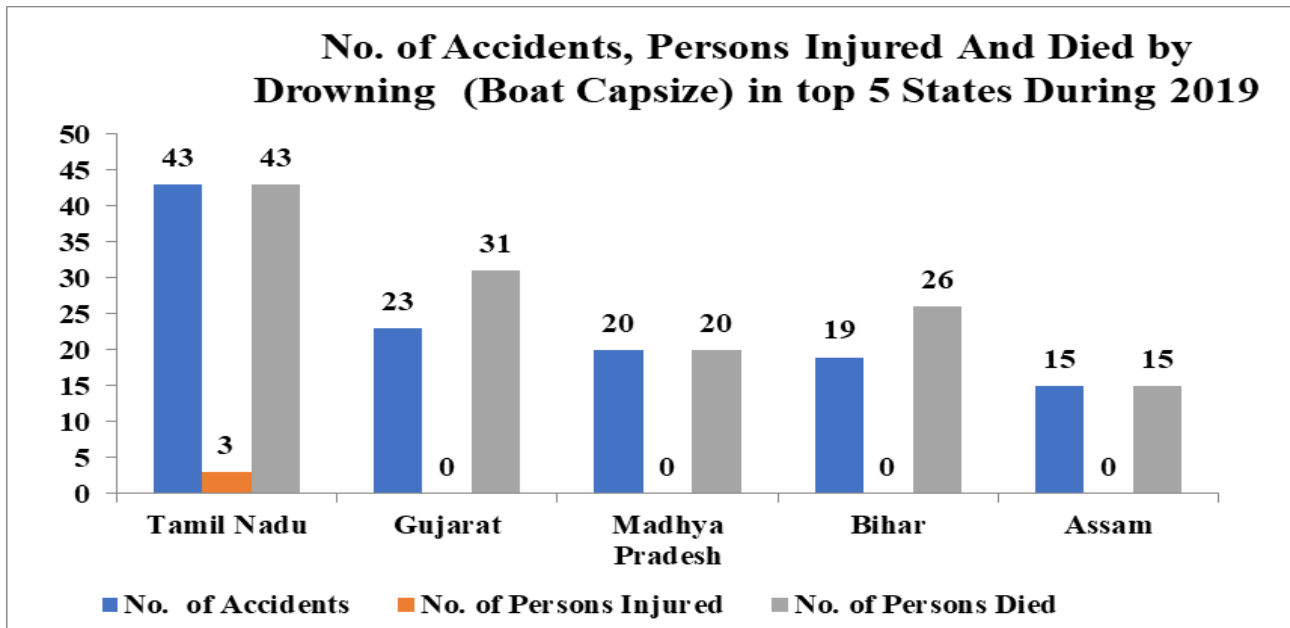
FINANCIAL OUTLAY & EXPENDITURE FOR IWAI

38. The Budget Estimate (B.E.) during 2017-18 was Rs. 195 crore. The expenditure during the same year was Rs. 636.59 crore, which includes expenditure from the fund raised from Extra Budgetary Resources (EBRs) of Rs. 660 crore. The Budget Estimate (B.E.) during 2019-20 was Rs. 614.56 crore and Revised Estimate (R.E) during 2019-20 was Rs. 406.60 crore. The expenditure during the same year was Rs. 732.93 crore. Out of Rs. 732.93 crore; the expenditure of Rs. 461.83 crore was done on one of the Central Sector Project namely Jal Marg Vikas Project (JMVP). For the year 2020-21 the Budget Estimate (B.E.) was Rs. 540.00 crore. Detailed financial outlay & expenditure for IWAI is given in Table 5.1 (section 5).

INLAND WATERWAYS TRANSPORT ACCIDENTS

39. The total number of accidents on inland waterways during the year 2019 was 162 out of which 43 were reported in Tamil Nadu followed by Gujarat and Madhya Pradesh with 23 and 20 accidents respectively. The number of deaths during the year due to boat mishaps was highest in Tamil Nadu at 43 followed by Gujarat and Bihar with 31 and 26 respectively. A striking feature observed in all the States (Table 6.1, Section 6) is that the number of persons died due to boat

mishaps is more than the number of persons injured on waterways unlike in the road accidents. Number of Accidents, persons injured and persons died by drowning (boat capsized) during 2019 is presented in the graph given below.



Source: Accidental Deaths & Suicides in India- 2019, *National Crime Records Bureau, M/o Home Affairs, Govt. of India*

SECTION – 1

**NAVIGABLE WATERWAYS
AND INFRASTRUCTURE**

Table No. 1.1

Navigable Waterways in India

(In Kms.)

Sl. No.	State/Rivers/Canals/Lakes	2019-20	
		Total Length of the Rivers/Canals/Lakes in the State	Navigable Length
1	2	3	4
1 ANDHRA PRADESH			
(i)	Godavari	1530	171
(ii)	Krishna	1400	157
(iii)	Others **	832	832
	Total	3762	1160
2. ASSAM			
(i)	Brahmaputra	2800	891
(ii)	Barak	900	121
(iii)	Subansiri	111	111
(iv)	Dhansiri	135	110
(v)	Dehing	120	114
(vi)	Aai	85	71
(vii)	Beki	85	73
(viii)	Doyang	61	61
(ix)	Puthimari	72	72
(x)	Gangadhar	62	62
(xi)	Kopili	50	46
(xii)	Dikhw	92	63
(xiii)	Jinjiram	43	43
(xiv)	Lohit	100	100
	Total	4716	1938
3. BIHAR ***			
(i)	Ganga	510	510
(ii)	Gandak	300	300
(iii)	Koshi	233	160
(iv)	Ghaghra	100	100
(v)	Sone	226	31
(vi)	Mahananda	140	-
(vii)	Burhi Gandak	400	-
(viii)	Punpun	200	-
(ix)	Phalgu Harihar	300	-
(x)	Kiul	100	-
(xi)	Kari Koshi	150	-
(xii)	Chandan	100	-
(xiii)	Karamnasha	144	-
(xiv)	Others	860	290
	Total	3763	1391

Table No. 1.1

Navigable Waterways in India

(In Kms.)

Sl. No.	State/Rivers/Canals/Lakes	2019-20	
		Total Length of the Rivers/Canals/Lakes in the State	Navigable Length
1	2	3	4
4 GOA			
(i)	Mandovi River	78	66
(ii)	Zuari River	68	68
(iii)	Mapusa River	27	27
(iv)	Chapora River	34	32
(v)	Tiracol River	29	23
(vi)	Sal River	20	15
(vii)	Others	18	18
	Total	274	249
5 GUJARAT *			
	Total		
6 KARNATAKA			
(i)	Sharavathi	80	27
(ii)	Tungabhadra	375	375
(iii)	Malaprabha	270	230
(iv)	Ghataprabha	160	160
(v)	Krishna	325	125
(vi)	Cauvery	270	34
(vii)	Kabini	117	30
(viii)	Gurupura	80	20
(ix)	Gangolli	48	20
(x)	Bheema	860	125
(xi)	Udyavara	37	14
(xii)	Netravathi	96	26
(xiii)	Kali	184	29
		2902	1215
7 KERALA \$\$			
(i)	Kallada	-	-
(ii)	Ithikkara	-	-
(iii)	Muvattupuzha	-	-
(iv)	Menachil	-	-
(v)	Kariyar	-	-
(vi)	Manimala	-	-
(vii)	Kodoor	-	-
(viii)	Periyar	-	-
(ix)	Kodungallur	-	-
(x)	Ponnai Kochi	-	-
(xi)	Chalakudy Kundoor	-	-
(xii)	Chaliyar	-	-
(xiii)	Kadalundi	-	-
(xiv)	Bharathapuzha	-	-
(xv)	Tirurpuzha	-	-
(xvi)	Poorapuzha	-	-
(xvii)	Keeranallur	-	-
(xviii)	Kanjiramukku	-	-

Table No. 1.1

Navigable Waterways in India

(In Kms.)

Sl. No.	State/Rivers/Canals/Lakes	2019-20	
		Total Length of the Rivers/Canals/Lakes in the State	Navigable Length
1	2	3	4
(xix)	Vadakkumpad	-	-
(xx)	Kallai	-	-
(xxi)	Korappuzha	-	-
(xxii)	Perumbra	-	-
(xxiii)	Ramapuram	-	-
(xxiv)	Kuppam	-	-
(xxv)	Valapattanam	-	-
(xxvi)	Anjarakandy	-	-
(xxvii)	Thalassery	-	-
(xxviii)	Mahe	-	-
(xxix)	Kuttiyadi	-	-
(xxx)	Kavvayi	-	-
(xxxi)	Kariyankode	-	-
(xxxii)	Nileswaram	-	-
(xxxiii)	Chittari	-	-
(xxxiv)	Chandragiri	-	-
(xxxv)	Mogzhal	-	-
(xxxvi)	Shiriya	-	-
(xxxvii)	Uppala	-	-
(xxxviii)	Manjeswaram	-	-
(xxxix)	Total of Rivers	2047.954	838.31
(xxxx)	Others **	940.653	774.925
	Total	2988.61	1613.24

8 MAHARASHTRA

(i)	Dande River	2	1
(ii)	Pangere River	2	1
(iii)	Girye River	3	1
(iv)	Kajali River	35	5
(v)	Kalbadevi River	10	2
(vi)	Are River	6	1
(vii)	Jog River	10	5
(viii)	Kelshi River	10	3
(ix)	Savitri River(Bankot to Mahad)	45	40
(x)	Kal River	6	4
(xi)	Vaitarna River	24	9
(xii)	Ulhas River	32.5	28
(xiii)	Mahim River(Bay)	1.5	1
(xiv)	Amba River	23	20
(xv)	Patalganga River/Creek (Aware to Kharpada)	11	6.5
(xvi)	Kundalika River	16	16
(xvii)	Mandad River(Rajpuri to Mandad)	14	10
(xviii)	Mhasla River(Turmad to Mhasla)	9	5
(xix)	Vashisti River(Dabhol to Govalkot)	45	38
(xx)	Jagbudi River(Karambavne to Khed)	20	20
(xxi)	Shastri River/Jaigad Creek(Jaigad to)	45	40
(xxii)	Rajapur River(Musakazi to Rajapur)	30	30
(xxiii)	Vagothan River/Vijaydurg Creek(Vijaydurg to Kharepatan)	38	22
(xxiv)	Gad River(Kalaval Creek)	13	7
(xxv)	Terekhol River/Creek(Terekhol to Banda)	28	28
(xxvi)	Karli River(Malvan)	23	13
(xxvii)	Others	129	105
	Total	631.00	461.50

Table No. 1.1

Navigable Waterways in India

(In Kms.)

Sl. No.	State/Rivers/Canals/Lakes	2019-20	
		Total Length of the Rivers/Canals/Lakes in the State	Navigable Length
1	2	3	4
9 ODISHA			
(i)	Mahanadi	493	199
(ii)	Brahmani	541	277
(iii)	Baitarani	344	32
(iv)	Subarnarekha	50	50
(v)	Budha Balanga	35	35
(vi)	Dhamara	20	20
(vii)	Salandi	17	17
(viii)	Panchputra	21	21
(ix)	Parnei	45	45
(x)	Hatel	30	30
(xi)	Bansagadai	32	32
(xii)	Hansua	37	37
(xiii)	Tirkota	18	18
(xiv)	Jamboo	6	6
(xv)	Gobari	16	16
(xvi)	Ramchandi	16	16
(xvii)	Kharansi	14	14
(xviii)	Batigharia	14	14
(xix)	Birupa	110	110
(xx)	Genguti	45	45
(xxi)	Luna	37	37
(xxii)	Devi	20	20
(xxiii)	Prachi	15	15
(xxiv)	Kadha	30	30
(xxv)	Kushabhadra	25	25
(xxvi)	Daya	9	9
(xxvii)	Rajua	7	7
(xxviii)	Makara	11	11
(xxix)	Others **	367	367
	Total	2425	1555
10 TAMIL NADU			
(i)	Anantha Victoria Marthandavarna Canal (AVM)	27	...@@@
(ii)	North Buckingham Canal	58	... @@
(iii)	Central Buckingham Canal	7.1	... @@
(iv)	South Buckingham Canal	105	... @@
(v)	Mullai Periyar Lake	14	14
	Total	211.1	14
11 UTTAR PRADESH ***			
(i)	Gomti	960	-
(ii)	Rapti	778	-
(iii)	Ghaghra	1116	-
(iv)	Ganga	2345	425
(v)	Sai	760	-
(vi)	Tons	485	-
	Total	6444	425
12 WEST BENGAL			
(i)	Hooghly	580	580
(ii)	Mahananda	206	58
(iii)	Ajoy	174	174
(iv)	Jalangi	232	232

Navigable Waterways in India

Table No. 1.1 (Contd...)

(In Kms.)

Sl. No.	State/Rivers/Canals/Lakes	2019-20	
		Total Length of the Rivers/Canals/Lakes in the State	Navigable Length
1	2	3	4
(v)	Dwarka	129	129
(vi)	Bakreswar	102	102
(vii)	Damodar	437	437
(viii)	Dwarekeswar	103	103
(ix)	Silabati	135	135
(x)	Kumari	347	347
(xi)	Ichamati	232	232
(xii)	Others@	2064	2064
	Total	4741	4593
13 NAGALAND			
(i)	Tizu/Zungki	42	42
(ii)	Dhansiri/Chathe	110	110
(iii)	Dikhu	63	63
(iv)	Doyang	61	61
	Total	276	276
14 MIZORAM			
(i)	R. Tlawng	238	81
(ii)	R. Kolodyne	196	22
(iii)	R.Khawthlang Tuipui	134	17
(iv)	R. Tuichawng	167	19
(v)	Tul River	55	16
(vi)	Others	...	...
		790	155

Source: IWT Directorate of states.

* Data is reported nil for the year 2019-20

** Including Canals.

*** Information for the year 2019-20 has not received. Last Year data has been Repeated.

@ Includes 268 Kms. each of Total Length and Navigable Length pertaining to canals.

... : Not available

..@@@ Out of this, 12km is in Kerala State. As this canal was formed before 150 years, the stretch of 12km is highly polluted with high growth of vegetation and water weeds. As a whole, the entire stretch of 27km is in abandoned condition. In stretch of 12km there no regular navigation activity only limited navigation activities are carried out by local peoples using country boats occasionally.

@@ Out of 170.1 km, 122 km length of canal was used for navigation during now silted up. Navigation could be possible only after renovation.

\$ \$ Total length & Navigable length for each river is not provided only sum total of all rivers is available.

<div>Table No. 1.2</div> <div>Infrastructure Facilities Available on National Waterways (As on 31-3-2020)</div>					
Place	Size of Vessels that can be accommodated (DWT)	No. of Berths	Cargo Handling Equip. and their Capacity	Type and Extent of Storage Facility Available	Remarks like Road / Rail connectivity, land details, usage etc.
1	2	3	4	5	6
National Waterway No.1					
1. Haldia - Farakka : (560 Km) ,Depth - 2.6 to 3.0					
(i) Haldia	1500	Three(Floating)	Nil	One Godown of size 12 x 30m and Open space 1630 m2	Land taken from Haldia Dock Complex (HDC) on lease basis.
ii) Budge Budge - Kolkata	Nil	Nil	Nil	Nil	Nil
(iii) a) BISN/G.R. Jetty-1,Kolkata	1500	Two(Floating)	Nil	Open Space area 6000 m2	
(iii) b) G.R. Jetty-2,Kolkata	3000	Fixed RCC Jetty 71.25 m x 20m berth	Nil	Transit shed of 1186.75 sqm area for storage and open storage area of 4103.20 sqm	A permanent RCC jetty has been constructed and operational since November 2013 for handling of General cargo. This jetty is also used for loading of fly ash to Bangladesh and embark/disembark of tourists and logistics support.
(iv) Botanical garden, Kolkata	1500	One(Floating)	Two numbers of crane pontoon for cargo handling	To be stored on Pontoon	Land belongs to KoPT being used by IWA and it also used for berthing of cruise vessels. Also two numbers of crane pontoon available for cargo handling.
(v) BTPS Jetty (Tribeni)	1500	Two(Floating)	Nil	Nil	Land belongs to WBPCL and the same has been taken on lease from WBPCL. At present a RCC Yoke stage is constructed at BTPS. Further, the jetty is used for loading of flyash, broken rice and other cargo.
(vi)Tribeni	Nil	Nil	Nil	Nil	Land belongs to WB Government. At present Security guard hut is available at terminal for safekeeping.
(vii) Shantipur	600	One(Floating)	Nil	To be stored on Pontoon and open space of IWA's land 2000 Sq. m	Land belongs to State Govt. of W.B. being used by IWA for embark/disembark of passenger/Tourist, loading/unloading of other logistics support.
(viii) Metihari/Swaroopganj	600	One(Floating) Pontoon	Nil	One Godown of size 4.5 x 5 m and Open space 290 m2	Land taken from KoPT on lease basis
(ix) Kalna/Katwa	600	One(Floating)	Nil	To be stored on Pontoon.	Land not available pontoon placed on water front
(x) Hazardwari	600	One (floating)	Nil	To be stored on Pontoon.	Land not available pontoon placed on water front
(xi) Pakur (Putimari)	1500	One(fixed)	Nil	Nil	Owned by Farakka Barrage project(FBP)
(xii) Farakka					
a. D/s Farakka of existing lock gate	1500	One(fixed)	Nil	Nil	Being used for embark/disembark of passenger/Tourist, loading/unloading of other logistics support.
b. U/s Farakka (IWA's Floating jetties)	600	One(Floating)	Nil	Nil	Being used for embark/disembark of passenger/Tourist, loading/unloading of other logistics support.
c. Owned by Jindal ITF	2500 (two vessels at a time)	Jetty with conveyor	Nil	Nil	Being used for unloading NTPC coal at Farakka Super Thermal Power Station
2. Farakka - Barh : (400 km), Depth- 2.1 to 2.5					
(xiii)Rajmahal (Manglaghat)	600	One(Floating)	Nil	To be stored on Pontoon.	Being used for berthing of vessel, embark/disembark, loading/unloading and logistics support.
(xiv) MMT Sahibganj	1500	fixed RCC Jetty of 270m X 25m	1. Mobile harbour crane (1 Nos 50T capacity@ 17-18m outreach. 2. Barge loader with loading capacity of 1200TPH 3. Conveyor system with fixed hopper 1200 TPH 4. 08 front end loaders.	Storage shed 130m X 32m, 'Land area 182.70 acres	a) Being used for loading of stone chips and embark/disembark and logistics support. b) A permanent RCC jetty has been constructed and operational since September 2019 for handling of Cargo.

Table No. 1.2 (Contd...)					
Infrastructure Facilities Available on National Waterways (As on 31-3-2020)					
Place	Size of Vessels that can be accommodated (DWT)	No. of Berths	Cargo Handling Equip. and their Capacity	Type and Extent of Storage Facility Available	Remarks
1	2	3	4	5	6
(xv) Samdaghat (Sahibganj)	600	One(Floating)	Nil	To be stored on Pontoon.	Being used for berthing of vessel, embark/disembark, loading/unloading and logistics support.
(xvi) Bateshwarsthan	600	One (Floating)	Nil	To be stored on Pontoon.	Being used for berthing of vessel, embark/disembark, loading/unloading and logistics support.
(xvii) Bhagalpur	600	One(floating)	Nil	To be stored on Pontoon and open space of IWA's land 1000 Sq. m	DGPS Station is operational and being utilised since 2010. Being used for berthing of vessel, embark/disembark, loading/unloading and logistics support.
(xviii) Munger	600	One (Floating)	Nil	To be stored on Pontoon and open space of IWA's land 1000 Sq. m	Being used for berthing of vessel, embark/disembark, loading/unloading and logistics support.
3. Barh-Ghazipur : (290 km),Depth - 1.6 to 2.0					
(xix) Semaria	600	One(floating)	Nil	To be stored on Pontoon.	Being used for berthing of vessel, embark/disembark, loading/unloading and logistics support.
(xx) Patna	1500	Fixed RCC (Low level Jetty 46.6m, High level Jetty 70m berth respectively	Shore Crane-2 with capacity of 01 - 20 tonnes subject to radius. Contanar Crane-1 with capacity of 75 tonnes	45m x 14m Transit shed and open space of IWA's land 1000 Sq. m	Permanent (Low & High) level Jetty and DGPS Station is operational. Being used for berthing of vessel, embark/disembark, loading/unloading and logistics support.
(xxi) Buxar	600	One (Floating)	Nil	To be stored on Pontoon.	Being used for berthing of vessel, embark/disembark, loading/unloading and logistics support.
4. Ghazipur-Allahabad : (370 km) ,Depth -1.1 to 1.5					
* In Chunar- Allahabad stretch (198 km) no RC works was undertaken. Except day channel marking.					
(xxii) Ghazipur/ Rajghat	600	One(floating)	Nil	To be stored on Pontoon.	Being used for berthing of vessel, embark/disembark, loading/unloading and logistics support.
(xxiii) (a) MMT Varanasi	1500	fixed RCC Jetty of 200m X 35m	Mobile harbour crane (2 Nos 50T capacity@ 17-18m outreach.	To be stored on Pontoon and open space of IWA's land 2000 Sq. m	A permanent RCC jetty has been constructed and operational since November 2018 for handling of Cargo. Being used for berthing of vessel, embark/disembark, loading/unloading and logistics support.
(b) All Season Passenger Jetty at Varanasi	600	One(floating) 30m X 10m	Nil	...	Being used for berthing of vessel, embark/disembark of tourist/Passenger
(xxiv) Ramnagar	600	One(floating)	Nil	To be stored on Pontoon.	Being used for berthing of vessel, embark/disembark, loading/unloading and logistics support.
(xxv) Prayagraj	600	One (floating)	Nil	To be stored on Pontoon and open space of IWA's land 5000 Sq. m	Generator could be provided for lighting whenever required
Note :					
1) Floating jetty (berth) with gangway facility can be shifted and provided at any location along the national waterway on need basis.					
2) 24 hours navigation aids being provided in Haldia-Ballia sector (1140 km) only. Day channel marking being provided in entire of NW-1.					
3) RIS stations between Farakka-Patna & Patna-Varanasi has been commissioned					
4) DGPS stations at Swaroopganj, Bhagalpur and Patna have been commissioned and operational. Further, DGPS Station at Varanasi has been commissioned.					
5) River notices are issued on fortnightly basis during lean season and monthly basis during flood season.					

Table No. 1.2 (Contd...)					
Infrastructure Facilities Available on National Waterways (As on 31-3-2020)					
Place	Size of Vessels that can be accommodated (DWT)	No. of Berths	Cargo Handling Equip. and their Capacity	Type and Extent of Storage Facility Available	Remarks
1	2	3	4	5	6
National Waterways No. 2					
1. Bangladesh Border-Pandu: (255 km), Depth - 2.5					
(a) Dhubri	2000	One(Roc Ro Ro Jetty)	Crane prontoon	(i) 2 transit sheds of 25 x 15 m each(ii) open storage facility also available	(i) Storage facility is developed (ii) DGPS station is commissioned
(b) Jogighopa	2000	One(floating)	Pontoon	Open storage facility available	(i) DGPS station is commissioned
(c) Pandu	2000	One(low level RCC jetty) + One High level RCC jetty	One Container crane of 75 T capacity, two tyre mounted crane of 20 T capacity, one crane pontoon and one pontoon	(i)2 transit sheds of 75 x 21 m each (ii) open storage facility also available	(i) BG siding is completed. (ii) Approach road is available
2. Pandu-Neamati : (374 km), Depth - 2.5					
(d) Silghat	2000	One(floating)	Pontoon	Open storage facility available	The berthing pontoon is shifted u/s (about 1 km) as the original terminal land has been eroded
(e) Biswanath	2000	One(floating)	Pontoon	Open storage facility available	DGPS station is commissioned.
(f) Neamati	2000	One (floating)	Pontoon	-	
3. Neamati-Dibrugarh : (123 km), Depth- 1.5					
(g) Bogibeel	2000	One (floating)	Pontoon	-	
4. Dibrugarh-Sadiya (Oriumghat) : (139 km),Depth - 1.5					
(h) Oakland/ Dibrugarh	1000	One(floating)	Pontoon	-	DGPS station is commissioned. The berthing pontoon is shifted temporarily due to erosion.
(i) Oriumghat	1000	One (floating)	Pontoon	-	1.77 hectare land acquired for development of terminal.
Note:					
1) Floating pontoons can be provided at any location along waterway on demand.					
2) Night navigation facilities are available between Bangladesh Border and Silghat (440km).					
3) River notices issued on regular monthly/fortnightly basis.					
4) Different Global Positioning System(DGPS) Stations to cover entire waterway are provided at Dhubri, Jogiqhopa,Biswanath and Dibrugarh.					

Table No. 1.2 (Contd...)		Infrastructure Facilities Available on National Waterways (As on 31-3-2020)				
Place	Size of Vessels that can be	No. of Berths	Cargo Handling Equip. and	Type and Extent of Storage	Remarks	
1	2	3	4	5	6	
National Waterways No. 3						
1. Kochi-Kottapuram : (30 km), Depth-2.0						
(a) Kottapuram	350.0	One 30m (RCC Jetty)	one 18 Ton mobile hydraulic crain and one 3 ton fork lift	300 sqm covered godown & 800 sqm open storage.	The Terminal building is leased out to Kerala State Warehousing Corporation w.e. from June 2018	
2. Udyogmandal Canal : (23 km),Depth -2.0						
(b) Aluva	350.0	One 30m (RCC Jetty)	one 18 T Capacity Mobile Hydraulic Crane & One 3 T Capacity Forklift available.	300 sqm covered godown & 1500 sqm open storage.	Approach road is available.The Terminal building is leased out to Kerala State Warehousing Corporation for 7 years	
3. Champakara Canal : (14 km), Depth - 2.0						
(c) Ernakulam GC (Maradu)	350.0	One 30m (RCC Jetty)	one 18 T Capacity Mobile Hydraulic Crane & one 3 T Capacity Forklift available.	300 sqm covered godown & 2000 sqm office area.	Approach road is available. Acquisition of land for widening of approach road for 8 mtr width is in progress.	
(d) Kakkanad (CEPZ)	350.0	10m temporary Jetty		only land available	Approach road is available.	
4. Kochi - Kollam : (138 km) , Depth - 2.0						
(e) Vaikkom	350.0	One 30m (RCC Jetty)	One 18 T Capacity Mobile Hydraulic Crane & One 3 T Capacity Forklift available.	300 sqm covered godown & 1200 sqm open storage.	Under consideration for handing over to KSWC.	
(f) Chertala (Thanneermukkom)	350.0	One 30m (RCC Jetty)	One 18 T Capacity Mobile Hydraulic Crane & One 3 T Capacity Forklift available.	300 sqm covered godown & 1800 sqm open storage.	Approach road is available.	
(g) Alapuzha	350.0	One 30m (RCC Jetty)	NA	300 sqm covered godown & 2500 sqm open storage.	Approach road is available.	
(h)Trikunnapuzha	350.0	One 30m (RCC Jetty)	One 18 T Capacity Mobile Hydraulic Crane & One 3 T Capacity Forklift available.	300 sqm covered godown & 800 sqm open storage.	Approach road is available.	
(I)Kayamkulam	350.0	One 30m (RCC Jetty)	One 18 T Capacity Mobile Hydraulic Crane & One 3 T Capacity Forklift available.	300 sqm covered godown & 1600 sqm open storage.	Approach road is available. Widening of the same is under progress through CPWD.	
(j) Chavara	350.0	Nil	Land only		Approach road is available.	

Table No. 1.2 (Contd...)					
Infrastructure Facilities Available on National Waterways (As on 31-3-2020)					
Place	Size of Vessels that can be	No. of Berths	Carqo Handling Equip. and	Type and Extent of Storage	Remarks
1	2	3	4	5	6
(k) Kollam	350.0	One 30m (RCC Jetty)	One 18 T Capacity Mobile Hydraulic Crane & One 3 T Capacity Forklift available.	300 sqm covered godown & 3500 sqm office area.	The Terminal godown is leased out to Kerala State Warehousing Corporation from April 2018
5. CPT Area : Depth -2.0					
(l) Willingdon island	16 TEU	One berth for container vessels	Nil	Nil	
(m) Bolgatty island	16 TEU	One berth for container vessels	Nil	Nil	
Source: IWT Directorate of states & IWAI.					
Note :-					
1) Channel marks for 24 hrs navigation provided on the entire waterway.					

Table No. 1.3

Infrastructure Facilities Available on State Waterways (As on 31-3-2020)

Sl. No.	Navigational Channel	Depth (Meters)	Availability and Capacity of Terminals					Remarks
			Place	Size of vessels that can be accommodated (DWT)/dimension	No. of berths	Cargo handling equip. and their capacity	Type and extent of storage facility available	
1	2	3	4	5	6	7	8	9
1	ANDHRA PRADESH Kakinada to Puducherry	-	-	-	-	-	-	-
2	BIHAR *** Ganga River	2 metres	(I) (a) Sahebganj- Manihari	134'x31' 80'x15'x7' 55'x13'3"x4'8"	2 Nos. 1 Nos. 1 Nos.	Nil Nil Nil	Nil Nil Nil	- - -
			(II) Kahalgaon-Tintanga	60'x16'x6'	2 Nos.	Nil	Nil	-
			(III) Sultanganj - Agwani	70'x18'x6'	2 Nos.	Nil	Nil	-
			(IV) (a) Munghyr- Raighat	56'3"x14'2"x5'9" 58'3"x16'4"x5'8" 47'2"x12'6"x5'8" 59'5"x15'6"x5'6"	1 Nos. 1 Nos. 1 Nos. 1 Nos.	Shore crane- 2 Pontoon crane-2 Container crane-1	Godown	-
			(V) Buxar-Ujjyarghat	-	2 Nos.	-	-	At IWAI terminal
3	GOA Panaji Port (River Mandovi)	3.30 metres	Panaji	75 Mtrs Length	1 Nos.	-	-	Ports jetty being used by vessels calling in the Ports

Table No. 1.3 (Contd...)

Infrastructure Facilities Available on State Waterways (As on 31.3.2020)

Sl. No.	Navigational Channel	Depth (Meters)	Availability and Capacity of Terminals					Remarks
			Place	Size of vessels that can be accommodated (DWT)/dimension	No. of berths	Cargo handling equip. and their capacity	Type and extent of storage facility available	
1	2	3	4	5	6	7	8	9
4	Odisha							
	Balugaon Sector							
	Balugaon-Krishnaprasadgada	Varies between 2 to 10 meters	Lake Chilika	30" and above	2	-	NA	Passenger jetty & waiting hall are available at Balugaon & Krishna Prasadgarh.
	Balugaon-Kalijai	Varies between 2 to 10 meters	Lake Chilika	40" and above	2	-	-do-	Passenger Jetty & waiting hall are available at Balugaon & Kalijai.
	Balugaon-Nuapada	Varies between 2 to 4 meters	Lake Chilika	30"	2	-	-do-	Passenger Jetty & waiting hall are not available at Balugaon.
	Balugaon-Satapada	Varies between 2 to 4 meters	Lake Chilika	30"	2	-	-do-	Passenger Jetty & waiting hall are available at Balugaon & Satapada.
	Astarang Sector							
	Nuagarh-Sribantpur	Varies between 2 to 10 meters	River Devi	26"	3	-	-do-	Passenger Jetty & waiting hall are available at Nuagarh (Astaranga) & Gandakula
	Chandabali Sector							
	Chandabali-Rajnagar	Varies between 7 to 10 metres	River Brahmani/ Baitarani	52 ft	13	-	-do-	Jetty & waiting hall are available at Chandbali, Nalitapatia, Chardia & Raj Nagar.
	Chandabali-Talucha	Varies between 7 to 20 metres	River Brahmani/ Baitarani	50 ft	10	-	-do-	Jetty & waiting hall are available at Chandbali, Nalitapatia & Raj Nagar.
	Chandabali-Aradi	Varies between 7 to 18 meters	River Brahmani	35 ft	3	-	-do-	Jetty and waiting hall are available at Chandabali & Aradi.
5	TAMILNADU							
	Periyar Lake in Kerala	41.46	Thekkady	Vessel 1 (kannagi) Length-8.5m Breadth-3m Depth-1.4m	-	-	-	-
	(Under lease in Tamil Nadu)			Vessel 2(Jalarathna) Length-11.5m Breadth-2.4m Depth-1.6m	-	-	-	-

Table No. 1.3 (Contd...)

Infrastructure Facilities Available on State Waterways (As on 31.3.2020)

Sl. No.	Navigational Channel	Depth (Meters)	Availability and Capacity of Terminals					Remarks
			Place	Size of vessels that can be accommodated (DWT)/dimension	No. of berths	Cargo handling equip. and their capacity	Type and extent of storage facility available	
1	2	3	4	5	6	7	8	9
6	MIZORAM							
7	Nagaland							
8	Kerala							
	State Waterways	1.5	Irrigation Division,Kollam	50 T	-	-	-	-
		3 to 6	Vaikom Terminal		-	-	3800 Sq /Feet/Godown	Managed by Inland Waterway Authority of India
	Vembanad Lake	2 to 4	Kottayam Terminal	Barrage (250/metric ton)	2		40000/sq/feet godown	Managed by Kottayam Port & Container Terminal Service Pvt. Ltd.
	-	-	Irrigation Division, Ernakulam	-	-	-	-	-
	-	-	Additional Irrigation Division, Thrissur	-	-	-	-	-
	-	-	Irrigation Division,Malappuram	-	-	-	-	-
	-	-	Irrigation Division, Kozhikkode	-	-	-	-	-
	-	2	Inland Navigation Division, Kollam	50T	-	-	-	-
	-	-	Inland Navigation Division, Kannur	-	-	-	-	-
	-	-	Kerela State Inland Navigation Corporation, Cochin	-	-	-	-	-
	-	-	State Water Transport, Dept..	-	-	-	-	-
	-	-	Allappuzha	-	-	-	-	-

Source : State Govts.

*** Information for 2019-2020 has not received. Hence last received data has been repeated.

SECTION – 2

CARGO MOVED ON VARIOUS WATERWAYS

Table No. 2.1

Cargo Movement on National Waterways,

Sl. No.	Details of Waterway	Distance (Kms)	Cargo Moved (lakh Tonnes)				Tonne Kms (in lakh)			
			2016-17	2017-18	2018-19	2019-20	2016-17	2017-18	2018-19	2019-20
1	2	3	4	5	6	7	8	9	10	11
1	National Waterway No. I (Allahabad-Haldia stretch of Ganga – Bhagirathi – Hooghly river system)	1620.00	45.05	54.79	73.49	91.12	24598.00	27773.00	29003.84	30544.00
2	National Waterway No. II (Sadiya-Dhubri stretch of Brahmaputra River system)	891.00	25.91	31.62	28.72	3.93	503.00	614.69	561.00	79.34
3	National Waterway No. III (Kollam-Kottapuram stretch of West Coast Canal along with Champakara Canal and Udyogmandal Canal)	205.00	10.33	4.28	4.20	5.46	109.00	81.14	88.30	101.97
4	National Waterway No. IV (Kakinada-Puducherry stretch)*	2890.00			4.50	0.82			10.00	0.00
	Sub Total NWs	5606.00	81.29	90.69	110.91	101.33	25210.00	28468.83	29663.14	30725.31
5	Goa Waterways	202.00	157.68	111.62	37.72	29.52	7884.00	5581.06	1886.40	1476.05
6	Maharashtra Waterways	453.00	176.43	183.37	203.98	209.52	5214.00	5520.00	5972.00	1571.00
7	Gujarat Waterways (from Oct 2017)			115.20	288.20	310.15		1728	4300	4652
8	Sunderban Waterways	172			32.30	34.61			5600	5988
	Grand Total	6261.00	415.40	500.88	673.11	685.13	38308.00	41297.89	47421.54	44412.36

Source: Inland Waterways Authority of India for National Waterways, Gujarat Waterways and Sunderban Waterways

Data for Goa Waterways include the data received from Ports department, Govt of Goa and the data from the Mormugao Port Trust (MPT).

* NW-4 comprising of Kakinada-Puducherry stretch of canals and the Kaluvelly Tank, Bhadrachalam-Rajahmundry stretch of river Godavari and Wazirabad-Vijawada stretch of Krishna in Andhra Pradesh & Tamil Nadu

Table No. 2.2

Details of Cargo Moved on National Waterways (National Waterway No.1) - THE GANGA-BHAGIRATHI-HOOGHLY RIVER SYSTEM

(In tonnes)

Sl. No.	River/Stretch	Approximate Distance (Kms)	2016-17	2017-18	2018-19	2019-20	Cargo generally moved
1	2	3	4	5	6	7	9
A.	CIWTC						
1	(I)Saugar-Diamond Harbour/Haldia /Kolkatta/ Kolkatta Internal	144/80	...	...	...		Pulses,Logs,Salt,Iron Ore,Steel, Fly Ash,Aluminium block, Fertilizer, Container, ODC,Sand Clips
2	Haldia-Internal	2.00	...	...	...		Sand, Clips
3	Kolkatta- Ichamati River at Basirhat	2.00	...	...	...		Sand, Clips
	Sub Total (A)		0	0	0	0	
B.	VIVADA IWL						
1	Haldia-Sagar	35	2697	331	0		FO/HF HSD
2	Haldia-Budge-Budge	78/84	57141	51960	57182		FO, HF HSD, Lube
3	Haldia-KPD /NSD/RVM	106/105	47570	63130	63964		HF HSD, Lube Oil, FO
4	Haldia-Diamond Harbour	29	4070	758	1244		FO, HF HSD
5	Budge-Budge-NSD/KPD /RVM/Suri	21/19	40	1319	440		HF, HSD, FO
6	Haldia- J'Ham	10	12565	16544	17407		FO, HF HSD
7	Budge-Budge-KPD	21	865	0	0		FO, HSD
8	Haldia-Namkhana	46	2870	2940	2165		HF, HSD
9	Budge-Budge-Pujali	5	...	0	0		LDO
10	Haldia-Haldia Oil Barge	3	81164	74822	83882		FO, HF HSD
11	Haldia-Haldia Oil Jetty	3	57563	53195	71782		FO, HF HSD
12	Surminam-KPD	2	356	300	0		FO
13	Surminam-NSD	1	156	0	0		HSD, HF
14	Haldia-HOB	3	...	0	0		
15	Haldia-KPD	105	16522	0	0		
16	Haldia- Noorpur	43	0	0	0		
17	Haldia-Ramnagar	101	896	2458	0		LUBE
18	Budge Budge - Kolkatta	21	0	0	0		HF, HSD
19	Haldia-Titagar	127	...	...	82		HF HSD
	Sub Total (B)		284475	267757	298149	0	
C.	OTHER PRIVATE OPERATORS						
1	TIRUPATI VESSEL (P) LTD.						
1	Budae- Budae(Kol)- Khulna	497	42,012	27,661	6,514	1,652	Flyash
2	Budae- Budae Narayanqanj	884	275,025	251,660	208,548	165,646	Flyash,Coal
3	Budae- Budae- Mongla	484	...	-	-		Flyash
4	IWAI Haldia Jetty-Khulna	439	36,692	40,663	50,541	31,258	Flyash, Coal
5	IWAI Haldia Jetty-Narayanqanj	826	26,408	42,586	41,426	73,106	Flyash, Coal
6	Samdaqhat (Sahebqani) to Manihari	14			348,280	381,400	Stone chips
2	RELIANCE EXPORT CORPORATION						
1	T.T.Shed-Narayanqanj	910	...	0	0		Flyash
2	Budae- Budae Narayanqanj	884	...	0	0		Flyash
3	IWAI BSN Jetty-Narayanqanj	909	...	0	0		Flyash

Table No. 2.2
(Contd...)

Details of Cargo Moved on National Waterways (National Waterway No.1) - THE GANGA-BHAGIRATHI-HOOGHLY RIVER SYSTEM

(In tonnes)

Sl. No.	River/Stretch	Approximate Distance (Kms)	2016-17	2017-18	2018-19	2019-20	Cargo generally moved
1	2	3	4	5	6	7	9
C.	OTHER PRIVATE OPERATORS						
3	Maitrayee Shipping & Logistics						
1	IWAI BSN Jetty-Narayanganj	909	10010	7050	4152	6410	Flyash
2	IWAI BSN Jetty-Khulna	522	...	0	0		Flyash
3	T.T.Shed-Narayanganj	910	7897	37170	33433	22663	Flyash
4	T.T.Shed-Mongla	510	...	0	0		Flyash
5	Budge Budge- Narayanganj	884	31196	35427	13993	8992	Flyash
6	Budge Budge- Khulna	497	...	0	0		Flyash
7	Sri Ram Jetty - Narayanganj	905	2839	715	0		Flyash
8	Budge Budge - Karimganj	1332	...	0	0		Flyash
9	IWAI BSN Jetty - Karimganj	1357	...	0	0		Flyash
10	Karimganj-T. T. Shed	1358	...	0	0		Iron Fabricated
11	Gr Jetty II - Narayanganj	909		2987	10352	3240	Flyash
4	P K Shipping						
1	Orient Jute Mill- Ashuganj	1015	...	0	0		Rice
2	Budge- Budge Narayanganj	884	...	0	0		Flyash
3	Narayanganj- T.T.Shed	910	...	0	0		Cement
4	K.P.Dock-Narayanganj	910	...	0	0		Prime mild steel billets, Steel Coils & Plates
5	Haldia H.D.C.-Karimganj	1274	...	0	0		Coal
6	KP Dock- Ashuganj	1038	3339	0	0		Steel Materials / GC Sheet, Rice
7	Kolkatta-Karimganj	1358	...	0	0		ODC Kargo
8	Diamond Harbour-Ashuganj	962	...	0	0		Food Grain (Rice)
9	Sri Ram Jetty-Narayanganj	905	...	0	0		Flyash
10	K.P.Dock-Khulna	523	...	0	0		Dolomite Powder, Steel Sheet
11	T.T.Shed - Narayanganj	910	...	0	0		Flyash
12	IWAI BSN Jetty - Narayanganj	909	...	0	0		Flyash
13	K.P.Dock-Mongla	510	...	0	0		Steel Plate,Prime Hot Rolled Non Alloy Steel Coils & Plates, Prime
14	G.R. Jetty-II-Khulna	1357	...	0	0		Quality Hot Roll Steel Project Cargo
5	SOHAM COMMERCIAL						
1	Sri Ram Jetty-Narayanganj	905	...	945	0		Flyash
2	Kolkatta(Sri Ram Jetty)-Narayanganj	905	...	0	0		Flyash
3	T.T.Shed-Narayanganj	910	97668	57852.02	3288		Flyash, Stone Chips
4	T.T.Shed-Khulna	523	...	8545.53	4335		Stone Chips
5	Khulna - FSEZ Jetty(Falta), Kolkatta, India	472	...	0	0		Jute Carpet, Baking Cloth
6	KPD - Narayanganj	910	...	0	0		Steel Coil
7	IWAI BSN Jetty - Narayanganj	909	...	0	0		Flyash
8	IWAI BSN Jetty - Khulna	522	...	0	0		Flyash
9	Putimari Jetty-Khulna (Sohom Overseas)	906.5	...	...	6356		Stone Chips
6	RENAISSANCE IMPEX Pvt Ltd						
1	IWAI BSN Jetty-Narayanganj	909	5925	4888	0		Flyash
2	IWAI BSN Jetty-Karimganj Assam	1357	...	0	0		Flyash, HDPE Bags, Coal
3	Sri Ram Jetty-Narayanganj	905	...	0	0		Flyash
4	Karimganj Assam-IWAI BSN Jetty	1357	...	0	0		Coal
5	IWAI Haldia Jetty- Narayanganj	826	...	0	0		Flyash
6	Shri Ram Jetty- Mongla	505	...	0	0		Flyash

Table No. 2.2
(Contd...)

Details of Cargo Moved on National Waterways (National Waterway No.1) - THE GANGA-BHAGIRATHI-HOOGHLY RIVER SYSTEM

(In tonnes)

Sl. No.	River/Stretch	Approximate Distance (Kms)	2016-17	2017-18	2018-19	2019-20	Cargo generally moved
1	2	3	4	5	6	7	9
7	TT Shed-Narayanqani	910	10839	4958	0		Flyash
8	Budge Budge Narayanqani	884	9140	2150	0		Flyash
9	Budge Budge Karimgani	1332	...	0	0		Flyash
10	KPD - Mongla	510	...	0	0		Prime Hot Roll Non Alloy Steel Coils
11	TT Shed-Khulna	523	...	0	0		Flyash
12	GR Jetty II- Narayanqani	909	1880	0	0		
13	IWAI Haldia Jetty- Khulna	439		755	0		Flyash
7	Rivering Shipping & Logistics						
1	IWAI Haldia Jetty-Khulna	439	796	0	0	5207	Flyash
2	Budge- Budge (Kol)- Khulna	497	5199	6309	11145	18867	Flyash
3	Budge Budge-Naryanganj	884	14554	18912	39480	180299	Flyash
4	TT Shed-Narayanqani	910	42034	45438	44885	178430	Flyash
5	K P Dock- Khulna	523	...	0	0		Wheat
6	Sri Ram Jetty-Khulna	518	...	1486	0		Flyash
7	Sri Ram Jetty-Narayanqani	905	5608	10764	0		Flyash
8	IWAI Haldia Jetty-Narayanqani	826	9069	10687	24374	261254	Flyash
9	K P Dock- Mongla	510	...	0	0	1719	Maize
10	NSD - Mongla	508	...	0	0		Maize
11	IWAI BISN Jetty-Khulna	522	2970	1892	0	4837	Flyash
12	IWAI BISN Jetty-Narayanqani	909	2901	1964	2598	13414	Flyash
13	GR Jetty II- Khulna	522	1045	0	1573	6633	Flyash
14	HDC Fly Ash Jetty Haldia-Narayanqani	826					
15	T.T.Shed-Khulna	523	9924	5775	9552	60435	Flyash
16	Kolaghat-GR Jetty II	97	1100	805	741	6006	Flyash
17	GR Jetty II- Narayanqani	909	192	0	0		Cement
18	GR Jetty II - Mongla	509		2887	8311	59743	Flyash
19	HDC Fly Ash Jetty Haldia-Khulna			1596.44	0		Rice, De Oiled Rice Bran Extraction
20	Haldia-Pandu					644	ODC
21	IWAI BTPS-Khulna					3754	Container, Coal
22	TT Shed-Mongla					1568	Flyash
						117	ODC
8	GLOBAL SHIPPING & Forwarding						
1	Budge Budge-Narayanqani	884	1429	1380	840	2294	Flyash
2	Budge Budge-Khulna	497	3059	14113	19153	20977	Flyash
3	IWAI BISN Jetty-Khulna	522	5155	3746	890	1980	Flyash
4	IWAI BISN Jetty-Narayanqani	909	1458	0	0		Flyash
5	T.T.Shed-Khulna	523	...	3164	2221	1110	Flyash
6	IWAI Haldia Jetty - Khulna	439	...	2492	882	1820	Flyash
7	T.T.Shed-Narayanqani	910	750	708	860	1599	Flyash
8	IWAI Haldia Jetty - Narayanqani	826	...	0	0		Flyash
9	Sri Ram Jetty-Narayanqani	905	...	0	0		Flyash
10	HDC Fly Ash Jetty Haldia-Khulna	439	14338	4045	5007	1632	Flyash
11	HDC Fly Ash Jetty Haldia-Narayanqani	826					
12	Sri Ram Jetty-Narayanqani	905	1500	2655	780	850	Flyash
13	Sri Ram Jetty-Khulna	518	2349	0	0		
14	GR Jetty II- Khulna	522	3114	0	0		
15	Budge Budge-Mongla	484			1678	1892	Flyash
					888		Flyash
9	COASTAL CONNEXIONS						
1	Budge Budge-Narayanqani	884	7989	0	2386		Flyash
2	Budge Budge-Karimgani	1332	...	0	0		Flyash
3	Budge Budge-Khulna	497	9058	17470	21024	1438	Flyash
4	IWAI BISN Jetty-Narayanqani	909	...	0	0		Flyash
5	BISN Jetty-Narayanqani	1357	...	0	0		Flyash
6	IWAI BISN Jetty-Karimgani	1357	...	0	0		Flyash

Table No. 2.2
(Contd...)

Details of Cargo Moved on National Waterways (National Waterway No.1) - THE GANGA-BHAGIRATHI-HOOGHLY RIVER SYSTEM

(In tonnes)

Sl. No.	River/Stretch	Approximate Distance (Kms)	2016-17	2017-18	2018-19	2019-20	Cargo generally moved
1	2	3	4	5	6	7	9
7	BISN Jetty-Karimganj	1357	...	0	0		Coal
8	IWAI BISN Jetty-Khulna	532	7330	6973	0		Flyash
9	IWAI Haldia Jetty-Khulna	439	3608	8491	9291		Flyash
10	IWAI Haldia Jetty-Narayanganj	826	2625	0	0		Flyash
	Karimganj(Badarpur, Assam) -						
11	Narayanganj	478	...	0	0		Cement Clinker
12	GR Jetty II - Khulna	522		945	4256		Flyash
10	KANISHKA SHIPPING LINES						
1	Budge Budge-Narayanganj	884	23023	46519	13236	3884	Flyash
2	IWAI Haldia Jetty-Narayanganj	826	180532	224781	168868	108931	Flyash
3	Sri Ram Jetty-Khulna	518	1996	0	0		Flyash
4	T.T.Shed-Narayanganj	910	54542	17342	59215	87546	Flyash
5	Sri Ram Jetty-Narayanganj	905	6107	9252	0		Flyash
6	IWAI BISN Jetty-Khulna	522	10384	24630	34832	36371	Flyash
7	IWAI BISN Jetty-Narayanganj	895/909	13876	6443	17474	46453	Flyash
8	T.T. Shed - Mongla	510	...	0	0		Flyash
9	IWAI Haldia Jetty-Khulna	439	14354	34537	43339	12424	Flyash
10	IWAI Haldia Jetty-Mongla	426	1608	0	0		Flyash
11	Diamond Harbour - Ashuganj	962	...	0	0		Foodgrain(Rice)
12	HDC Fly Ash Jetty-Narayanganj	826	6289	32572	650		Flyash
13	T. T.Shed-Khulna	523	14534	24829	21136	16840	Flyash
14	KPD-Mongla	510	642	0	2006	3949	Machinery, Steel Cargo, Steam Turbine Associated
15	Budge Budge-Khulna	497	9360	47485	6999	2427	Flyash
16	GR Jetty 2- Narayanganj	909	3570	60128	102712	72713	Flyash
17	HDC Fly Ash Jetty-Khulna	439	1791	0	0		
18	Budge Budge - Mongla	484		1125	0		Flyash
19	GR Jetty II- Khulna	522		6617	25357	48508	Flyash
20	GR Jetty II - Narayanganj	909		1500	0		Rice Brown
21	HDC - Ashuganj	954		556.97	1732		Steel Pipe
22	KPD- Narayanganj	910		1482.42			Wire Rod Coil
23	Putimari Jetty-G.R. Jetty-2	384.5			720		Stone Chips
	Putimari Jetty-Mongla(Star Mourya Power)						
24		893.5			1210		Stone Chips
25	GR Jetty II- Mongla				9171	3847	Construction Material & Steel Cargo, New Empty Gas Cylinders, Steam Turbine, Steel Cargo & Associated miscellaneous
26	NSD - Mongla	509			2069		Steam Turbine, Steel Cargo Associated
27	HDC - Narayanganj	508			4189	1987	Hot Rolled Steel Coils
28	HDC - Pandu	826				2257	Coal
29	IWAI BTPS-Narayanganj					7879	
11	Eastern Navigation Pvt Ltd., Kolkata						
1	Kolkata-Zamania	1065	...	0	0		ODC Cargo
2	Kolkata-Silghatghat	1748	...	0	0		ODC Cargo
3	Haldia-Silghatghat	1664	...	0	0		ODC Cargo
4	T.T. Shed - Pandu	1573	...	0	0		Control & Protection Equipments for HVDC
5	Kolkata-Jogigopa, Assam	1432	310	0	981		ODC Cargo
6	Rajmahal to Atthmalgola	303		360	0		Steam Turbine of complete Generator Stator
7	Atthmalgola to Bakhtyarpur	30		150	0		Crawler crane
8	Mahenderpur to Munger	27		75	0		Crawler crane
	Manglahat-Doriganj					1774	ODC Cargo
12	A.K.Navigation						
1	T.T.Shed-Narayanganj	910	25322	0	0		Flyash
2	T.T.Shed-Khulna	523	...	0	0		Wheat

Table No. 2.2
(Contd...)

Details of Cargo Moved on National Waterways (National Waterway No.1) - THE GANGA-BHAGIRATHI-HOOGHLY RIVER SYSTEM

(In tonnes)

Sl. No.	River/Stretch	Approximate Distance (Kms)	2016-17	2017-18	2018-19	2019-20	Cargo generally moved
1	2	3	4	5	6	7	9
13	Desha International						
1	Budge Budge-Narayanganj	884	98890	152726	270594	115389	Flyash
2	IWAI Haldia Jetty-Khulna	439	22156	5085	16935	9518	Flyash
3	IWAI Haldia Jetty-Mongla	426		2218	3453		Flyash
4	Budge Budge-Khulna	497	36121	36171	53414	20684	Flyash
5	IWAI BSN Jetty-Narayanganj	909	30420	25035	4257	11074	Flyash
6	IWAI BSN Jetty-Karimganj	1357		0	0		Flyash
7	BSN Jetty-Karimganj(Badarpur)	1357		0	0		Coal
8	Sri Ram Jetty-Mongla	505		0	0		Flyash
9	Sri Ram Jetty-Khulna	518	10800	15272	0		Flyash
10	Sri Ram Jetty-Narayanganj	905	41543	58864	0		Flyash
11	T.T.Shed-Mongla	510	760	359	0		Wheat,Soyabean Extraction, Maize
12	T.T.Shed-Khulna	523	4665	21525	6920	2063	Flyash
13	T.T.Shed-Narayanganj	910	130564	206367	102426	66311	Flyash
14	K.P.Dock-Mongla	510		4058.98	5229	1929	Rice, Steel Plates, Rapeseed Extraction
15	K.P.Dock-Khulna	523		548.2	90		Steel Plates, Pipes & Accessories
16	IWAI Haldia Jetty-Narayanganj	826	411400	510991	519361	176464	Flyash
17	IWAI BSN Jetty-Khulna	532/522	705	1799	685		Flyash
18	Budge Budge- Mongla	484	...	690	1610		Flyash
19	IWAI BSN Jetty (kol)- Mongla	509	...	0	0		Flyash
20	K.P.Dock-Narayanganj	910	...	4150.98	1786		Soyabean Extraction, Steel Plates Sponge iron
21	NSD - Narayanganj	908	...	0	0		Soyabean Extraction, Maize
22	NSD- Mongla	508	...	0	3331		Maize, Steel Plate,Project Cargo
23	Gr. Jetty II - Mongla	509	...	20960.07	3451		Rice, Soyabean Extraction, Stone Chips, Railway Track, Steel Plates, De Oiled Rice Bran Extraction, Project cargo
24	IWAI Haldia Jetty-Karimganj	1274	...	0	0		Flyash
25	HDC-Mongla	426	3674	1984.73	0		Steel Coils
26	HDC Fly Ash Jetty-Narayanganj	826	37458	109221	51355	11074	Flyash
27	GR Jetty II- Narayanganj	909	7289	27277	29019	24422	Flyash, Parboiled Rice
28	GR Jetty II- Khulna	522	630	5411	8288	27667	Flyash, Stone Chips
29	HDC Fly Ash Jetty-Khulna	439	4695	10700	842	838	Flyash
30	KPD - Narayanganj	910		2300	0		Rapeseed Extraction
31	IWAI Haldia Jetty - Ashuganj	945		220.56	0		Edible Oil
32	HDC - Narayanganj	826		6115.92	0		Steel Coils
33	Gumani-Ashuganj (Rajesh Auto Merchandise Pvt. Ltd.)	1444	...	...	2080		Stone Chips
34	Gumani-Mongla (Rajesh Auto Merchandise Pvt. Ltd.)	916	...	...	20695		Stone Chips
35	Putimari Jetty-Mongla (Kuchupara Infra Projects)	893.5	...	...	1208		Stone Chips
36	Putimari Jetty-Narayanganj (Kuchupara Infra Projects)	1293.5	...	...	1628		Stone Chips
37	GR Jetty II - Ashuganj	1037	...	...	4239	4080	Parboiled Rice, Stone Chips
	Falta jetty-Ashuganj					2850	
14	Reliance Enterprise						
1	Budge Budge-Narayanganj	884	2132	0	0		Flyash
2	Budge Budge-Khulna	497	...	0	0		Flyash
3	Sri Ram Jetty-Khulna	518	...	0	0		Flyash
4	IWAI BSN Jetty-Narayanganj	909	...	0	0		Flyash
5	T.T.Shed-Narayanganj	910	18431	0	0		Flyash
7	IWAI Haldia Jetty-Narayanganj	826	851	0	0		Flyash
8	IWAI Haldia Jetty-Khulna	439	...	0	0		Flyash
9	Sri Ram Jetty-Narayanganj	905	...	0	0		Flyash

Table No. 2.2
(Contd...)

Details of Cargo Moved on National Waterways (National Waterway No.1) - THE GANGA-BHAGIRATHI-HOOGHLY RIVER SYSTEM

(In tonnes)

Sl. No.	River/Stretch	Approximate Distance (Kms)	2016-17	2017-18	2018-19	2019-20	Cargo generally moved
1	2	3	4	5	6	7	9
15	Saha Oversees Corporation						
1	Budge Budge-Narayanganj	884	...	0	0		Flyash
2	Sri Ram Jetty-Khulna	518	...	0	0		Flyash
3	T.T.Shed-Narayanganj	910	...	0	0		Flyash
16	C. Day & Brothers						
1	Budge Budge-Narayanganj	884	24651	36724	53294	26449	Flyash
2	Budge Budge-Khulna	497	3512	5647	7749	2970	Flyash
3	Sri Ram Jetty-Khulna	518		0	0		Flyash
4	Sri Ram Jetty-Narayanganj	905	1887	2216	0		Flyash
5	IWAI Haldia Jetty-Mongla	426		0	0		Flyash
6	IWAI Haldia Jetty-Khulna	439	2244	3317	655	3290	Flyash
7	IWAI BISN Jetty-Narayanganj	909	5560	2514	5239	21254	Flyash
8	IWAI Haldia Jetty-Narayanganj	826	2664	1436	61333	160101	Flyash
9	T.T.Shed-Khulna	523		0	0	1190	Flyash
10	T.T.Shed-Narayanganj	910	5707	620	1394	27930	flyash, Ironfines
11	IWAI BISN Jetty - Khulna	522	1921	0	654	2803	Flyash
12	HDC Fly Ash Jetty-Narayanganj	826	682	0	0		Flyash
13	HDC Fly Ash Jetty-Khulna	439	650	1428	1414		Flyash
14	GR Jetty II- Narayanganj	909	2322	3378	13783	72518	Flyash
	GR Jetty II- Khulna					6771	
17	Fortune Cargo (India Pvt Ltd)						
1	Budge Budge-Narayanganj	894/884	23503	27197	33428	5566	Flyash
2	IWAI Haldia Jetty-Narayanganj	826	2063	0	2133		Flyash
3	T.T.Shed-Narayanganj	910	1652	1758	28342	9032	Flyash
4	IWAI BISN Jetty-Khulna	522	...	1045	0		Flyash
5	IWAI BISN Jetty-Narayanganj	909	13149	1380	10165	2586	Flyash
6	T.T.Shed-Khulna	523	...	0	0		Flyash
7	Sri Ram Jetty - Narayanganj	905	670	0	0		Flyash
8	Sri Ram Jetty - Khulna	518	...	0	0		Flyash
9	IWAI Haldia Jetty-Khulna	439	...	0	0		Flyash
10	Budge Budge-Khulna	497	624	6704	3261		Flyash
11	G.R. Jetty-II-Narayanganj	909			9816	6276	Flyash
	G.R. Jetty-II-Khulna					800	
18	Sea Water Transport Co. Pvt Ltd						
1	T.T.Shed-Khulna	523	...	0	0		Wheat
2	K.P. Dock-Mongla	510	...	0	0		Steel Coils, Steel Plates, Steel items
3	IWAI Haldia Jetty-Mongla	426	...	0	0		Flyash
4	IWAI BISN Jetty-Khulna	522	...	0	0		Flyash
19	Krishna Shipping & Logistics						
1	Budge Budge- Narayanganj	884	...	0	0		Flyash
2	Budge Budge- Karimganj	1332	...	0	0		Flyash
3	TT Shed- Narayanganj	910	...	0	0		Flyash
4	Kolkatta- Pandu	1432	...	0	0		ODC Cargo
5	G.R. Jetty-II-Ashuganj	1037	1364	0	0		Steel Bridge Girder
6	N. S. Dock, Kolkata-Sahibganj, Jharkhand	478			244		ODC Cargo
7	G.R. Jetty-II-Khulna	522			933		Steel Girder
8	Samdaghat-Manihari	14				33600	Stone Chips
9	Gramghat-Manihari	8				226600	Stone Chips
10	Rajmahal to Sahibganj	39			244		Harbour Crane

Table No. 2.2
(Contd...)

Details of Cargo Moved on National Waterways (National Waterway No.1) - THE GANGA-BHAGIRATHI-HOOGHLY RIVER SYSTEM

(In tonnes)							
Sl. No.	River/Stretch	Approximate Distance (Kms)	2016-17	2017-18	2018-19	2019-20	Cargo generally moved
1	2	3	4	5	6	7	8
20	Neli						
1	Budge Budge-Narayanganj	884	12409	1200	0		Flyash
2	IWAI Haldia Jetty-Narayanganj	826		1720	0	6616	Flyash
3	IWAI BISHN Jetty-Narayanganj	909	9262	9394	3330	8956	Flyash
4	T.T. Shed - Narayanganj	910	11607	14876	9866	12151	Flyash
5	T.T. Shed - Khulna	523	...	980	0		Flyash
6	Budge Budge-Khulna	497	...	0	0		Flyash
7	Sri Ram Jetty- Mongla	505	...	0	0		Flyash
8	Sri Ram Jetty- Khulna	518	...	0	0		Flyash
9	Budge Budge- Karimganj	1332	...	0	0		Flyash
10	Kolkatta- Narayanganj	894	...	0	0		Flyash
11	IWAI BISHN Jetty-Karimganj	1357	...	0	0		Flyash
12	T.T. Shed-Mongla	510	855	0	0		Flyash
13	GR Jetty II- Narayanganj	909	2370	0	0		Flyash
14	Sri Ram Jetty- Narayanganj	905	866	0	0		Flyash
21	Ajbela Navigation						
1	Sri Ram Jetty-Khulna	518	...	0	0		Flyash
2	Sri Ram Jetty-Narayanganj	905	3852	1712	0		Flyash
3	K.P.Dock-Khulna	523	...	0	0		Wheat
4	T.T.Shed-Narayanganj	910	29804	45141	23336	2177	Flyash
5	T.T.Shed-Mongla	510	840	0	0		Maize
6	T.T.Shed-Khulna	523	901	3867	1075	1410	Flyash
7	HDC Fly Ash Jetty-Narayanganj	826	14324	13565	13326		Flyash
8	Budge Budge-Narayanganj	884	21604	5727	25402	8563	Flyash
9	Budge Budge-Khulna	497	3579	0	7013	3171	Flyash
10	IWAI Haldia Jetty-Mongla	426	...	0	0		Flyash
11	IWAI Haldia Jetty-Khulna	439	1680	0	0	2116	Flyash
12	IWAI Haldia Jetty-Narayanganj	836/826	19814	8472	24270	12188	Flyash
13	IWAI BISHN Jetty - Narayanganj	909	4708	737	744	2923	Flyash
14	IWAI Haldia Jetty-Karimganj	1274	...	0	0		Flyash
15	GR Jetty II - Narayanganj	909		5734	2831	3708	Flyash
16	GR Jetty II - Mongla	509		1017.71	0	2115	Rice
17	GR Jetty II - Khulna	522			925	1195	Flyash
18	HDC Fly Ash Jetty-Khulna	439	...	...	3476		
	GR Jetty II - Ashuganj					2150	
	IWAI BISHN Jetty - Khulna					692	
	KPD-Mongla					4780	
	NSD-Mongla					743	
22	Reach Asia						
1	Kolkatta-Jogighopa, Assam	1392	...	0	0		ODC Cargo
23	Neticon						
1	KP Dock- Khulna	510	...	0	0		Wheat
24	Duttson						
1	T.T.Shed-Narayanganj	910	...	7222	6309		Flyash
2	IWAI BISHN Jetty-Narayanganj	909	9239	878	545		Flyash
3	Budge Budge-Narayanganj	884	5419	9891	32341	4784	Flyash
4	IWAI Haldia Jetty - Mongla	426	621	0	0		Flyash

Details of Cargo Moved on National Waterways (National Waterway No.1) - THE GANGA-BHAGIRATHI-HOOGHLY RIVER SYSTEM

Table No. 2.2 (Contd...)

								(In tonnes)
Sl. No.	River/Stretch	Approximate Distance (Kms)	2016-17	2017-18	2018-19	2019-20	Cargo generally moved	
1	2	3	4	5	6	7	9	
5	IWAI Haldia Jetty - Narayanganj	826	13452	18257	26421	4925	Flyash	
6	IWAI Haldia Jetty - Khulna	439	...	0	0		Flyash	
7	IWAI BISN Jetty-Khulna	522	...	0	0		Flyash	
8	IWAI BISN Jetty-Karimganj	1357	...	0	0		Flyash, Spare parts	
9	Budge Budge-Karimganj	1332	...	0	0		Flyash	
10	Karimganj(Badarpur) - Narayanganj	478	...	0	0		Cement Clinker	
11	Sri Ram Jetty - Narayanganj	905	484	8934	0		Flyash	
12	IWAI Haldia Jetty-Karimganj	1274	...	0	0		Flyash	
13	Budge Budge-Khulna	497	730	0	2120		Flyash	
14	GR Jetty II- Narayanganj	909	3740	7178	2310		Flyash	
15	HDC Fly Ash Jetty-Narayanganj	826	564	2975	0		Flyash	
16	T.T.Shed-Khulna	523		1420	1430	724	Flyash	
17	Sri Ram Jetty - Khulna	518		1688	0		Flyash	
18	KPD- Mongla	510		2292	0		Rice	
19	HDC Fly Ash Jetty-Khulna	439			726		Flyash	
25	Seaways Shipping & Logistics Ltd.							
1	KP Dock - Mongla	510	...	0	0		Steel Plates, Steel coils, Steel items	
26	J.D.Shipping							
1	Budge Budge-Narayanganj	884	35160	29310	59298	84167	Flyash	
2	Sri Ram Jetty(Kol) - Narayanganj	905	8119	802	0		Flyash	
3	Sri Ram Jetty(Kol) - Khulna	518		0	0		Flyash	
4	Sri Ram Jetty(Kol) - Mongla	505		0	0		Flyash	
5	IWAI Haldia Jetty - Narayanganj	826	2268	2348	10231	6035	Flyash	
6	KP Dock - Mongla	510		0	0	9015	Steel plate, Steel items	
7	KP Dock - Narayanganj	910		0	0		Machinery	
8	KP Dock - Khulna	523		0	0		Steel plate	
9	T.T. Shed - Narayanganj	910	23342	17155	22106	34807	Flyash	
10	IWAI BISN Jetty - Narayanganj	909	12854	9700	2528	3670	Flyash	
11	HDC Fly Ash Jetty-Narayanganj	826	6160	0	72820	73890	Flyash	
12	Karimganj - Ashuganj	320		210	0		Lime Stone	
13	G.R. Jetty II - Narayanganj	909		5093	0	5159	Flyash	
14	Budge Budge-Khulna	497			1601	3824	Flyash	
15	HDC Fly Ash Jetty-Khulna	439			15589	4582	Flyash	
16	IWAI BISN Jetty - Khulna	522			605		Flyash	
17	T.T. Shed - Khulna	523			1544	4953	Flyash	
18	Budge Budge-Mongla	484			1916		Flyash	
19	GR Jetty II- Mongla	509			1848	4086	Turbine & Generator	
20	HDC Fly Ash Jetty-Mongla	426			840		Flyash	
	GR Jetty II- Khulna					11931		
	IWAI Haldia Jetty - Khulna					680		
	NSD- Mongla					2670		
27	Ganga Water Transport							
1	K.P.Dock-Mongla	510	...	0	0		Wheat	
2	K.P.Dock-Narayanganj	910	...	0	0		Non Alloyed Hot Rolled Steel Coil	
3	Budge Budge - Khulna	497	...	0	0		Flyash	
28	Bertling Logistic India Pvt.Ltd.							
1	Haldia-Balia	1028	...	0	0		ODC Cargo	
2	Kolkata - Balia	923	...	0	0		ODC Cargo	
29	Venketesh Logistics							
1	Haldia-Bhaktiyarpur	885	...	0	0		ODC Cargo	

Table No. 2.2 (Contd...)

Details of Cargo Moved on National Waterways (National Waterway No.1) - THE GANGA-BHAGIRATHI-HOOGHLY RIVER SYSTEM

(In tonnes)							
Sl. No.	River/Stretch	Approximate Distance (Kms)	2016-17	2017-18	2018-19	2019-20	Cargo generally moved
1	2	3	4	5	6	7	9
30	All Cargo Logistics Ltd.						
1	Haldia-Zamania	1170		0	0		ODC Cargo
2	Haldia - Biswanath Chareli, Assam(NW2)	1730/1694		0	0		ODC Cargo
3	T.T. Shed - Biswanath Charlie	1778		0	0		ODC Cargo
4	Haldia-Jogigopa	1348		0	0		ODC Cargo
5	Kolkata - Jogigopa	1432	361	0	0		ODC Cargo
6	T.T. Shed - Jogigopa	1432	...	310	0		ODC Cargo
7	T.T. Shed - Pandu	1573	...	0	0		ODC Cargo
8	T.T. Shed - Silghat	1721	...	0	0		ODC Cargo
9	NSD, Kolkata-Pandu	1573	...	0	0		ODC Cargo
10	Haldia-Bhaktiarpur	885	361	0	0		ODC Cargo
11	Kolkatta- Bhaktiarpur	780	750	0	0		ODC Cargo
12	T.T. Shed - Silchar	1438		350	0		ODC Cargo
31	Prism Logistics Pvt.Ltd.						
1	Haldia-Allahabad	1512	...	0	0		ODC Cargo
32	Safehand Logistics						
1	IWAI BSN Jetty - Karimganj (Badarpur)	1357	...	0	0		Flyash
2	Budge Budge - Narayanganj	884	1512	4095	7581	7508	Flyash
3	IWAI Haldia Jetty - Narayanganj	826	3094	2502	4172	921	Flyash
4	IWAI Haldia Jetty -Khulna	439	...	0	781		Flyash
5	IWAI BSN Jetty - Narayanganj	909	750	2819	0	1088	Flyash
6	Sri Ram Jetty-Narayanganj	905	...	0	0		Flyash
7	T. T. Shed-Narayanganj	910	...	0	2273	948	Flyash
8	IWAI Haldia Jetty -Karimganj	1274	...	0	0		Flyash
9	KPD-Khulna	523	...	0	0		Steel Plates
10	Budge Budge - khulna	497	650	0	780		Flyash
	GR Jetty-2-Khulna					775	
	GR Jetty-2-Narayanganj					1992	
33	Shun Shing India Private Ltd.						
1	Budge Budge - Narayanganj	884	34187	38929	17158	10786	Flyash
2	Budge Budge - khulna	497	58537	37676	59608	44108	Flyash
3	IWAI BSN Jetty- Narayanganj	909	2122	1136	5341	1433	Flyash
4	IWAI BSN Jetty- Khulna	522	3909	868	5338	8274	Flyash
5	Sri Ram Jetty - Khulna	518		1681	0		Flyash
6	T.T.Shed-Khulna	523		3909	653	23690	Flyash
7	GR Jetty II- Khulna	522	2000	4886	5545	5174	Flyash
8	GR Jetty II- Narayanganj	909	4358	6496	2588	1295	Flyash
9	Sri Ram Jetty-Narayanganj	905	2006	645	0		Flyash
10	T. T. Shed-Narayanganj	910	4859	6531	5777	7265	Flyash
34	Jindal ITF Ltd.						
1	Sagar - Farakka	540	370740	160262	0		Coal
35	AFS Logistics Pvt. Ltd.						
1	AWAI Haldia Jetty - Fatuha	910		0	0		Fertilizers
2	Fatuha - Kolkatta	805		0	0		Fertilizers
36	Lee & Muirhead Pvt. Ltd.						
1	Haldia - Sirsa	1471		0	0		ODC Cargo

Details of Cargo Moved on National Waterways (National Waterway No.1) - THE GANGA-BHAGIRATHI-HOOGHLY RIVER SYSTEM

Table No. 2.2 (Contd...)

(In tonnes)							
Sl. No.	River/Stretch	Approximate Distance (Kms)	2016-17	2017-18	2018-19	2019-20	Cargo generally moved
1	2	3	4	5	6	7	9
37	Boxco India Pvt. Ltd.						
1	Haldia - Geonkhali	43		0	0		ODC Cargo
2	KPD - Jogigopha	1432		809.6	0		ODC Cargo
38	K K Shipping						
1	T.T. Shed - Narayanganj	910	39745	8472	21561	22809	Flyash
2	Budge Budge - Narayanganj	884		0	0		Flyash
3	IWAI Haldia Jetty - Narayanganj	826	9325	0	2754	4304	Flyash
4	IWAI BISHN Jetty - Narayanganj	909	10627	4560	16435	14619	Flyash
5	Sri Ram Jetty-Narayanganj	905	661	0	0		Flyash
6	IWAI BISHN Jetty- Khulna	522		0	0	4383	Flyash
7	T.T.Shed-Khulna	523		830	0	10314	Flyash
8	IWAI BISHN Jetty- Mongla	509		0	3136		Flyash
9	T.T.Shed-Mongla	510	855	0	0		Flyash
10	IWAI Haldia Jetty - Mongla	426	686	0	0		
11	Budge Budge - Khulna	497		960	0		Flyash
12	IWAI Haldia Jetty - Khulna	439		1140	0	1045	Flyash
13	T.T.Shed-Mongla	510			1140		Flyash
39	Tetron Merchandise						
1	IWAI BISHN Jetty- Khulna	522	5512	4740	4390	4313	Flyash
2	Budge Budge - Khulna	497	3061	10049	10097	20891	Flyash
3	IWAI BISHN Jetty - Narayanganj	909	802	0	0		
4	G.R. Jetty II - Narayanganj	909		2005	2968	2490	Flyash
5	G.R. Jetty II - Khulna	522		7772	43576	24078	Flyash
	BTPS Jetty- Khulna					13078	
	Budge Budge - Narayanganj					1525	
	IWAI Haldia Jetty-Khulna					2634	
	IWAI Haldia Jetty-Narayanganj					7118	
40	Transcoast Trading Pvt. Ltd.						
1	Budge Budge - Narayanganj	884	9721	2948	1080		Flyash
2	IWAI Haldia Jetty - Narayanganj	826	546	4442	10267	4134	Flyash
3	IWAI BISHN Jetty - Narayanganj	909	31736	20165	8490	10286	Flyash
4	T.T.Shed-Narayanganj	910	15300	12037	15711	6900	Flyash
5	G. R. Jetty-II-Mongla	509		0	0		Project Cargo
6	G. R. Jetty-II-Mongla	509		0	0		Steel Items
7	KPD-Mongla	510		20399.13	5165		Steel Bar, Rice, TMT Bars
8	G. R. Jetty-II-Narayanganj	909	8055	8716	0		Flyash
9	Khulna-NSD Kolkatta	521	626	0	0		Strand Jack with Accessories
10	KPD Kolkatta-Ashuganj	1038	2367	0	0	5241	Rice, TMT Bars, & Steel Sheets, Iron Pipe & Plates
11	KPD Kolkatta-Mongla	510	2107	0	0		Parallel Flange Universal Beams & ISMC Channel & Equal Angles, Steel
12	KPD Kolkatta-Narayanganj	910	3267	0	0	5918	Steel Iron Plates
13	NSD Kolkatta-Mongla	508	526	2093.76	1696		Rice, Steel Materials
14	Sri Ram Jetty-Narayanganj	905	1056	0	0		Flyash
15	HDC - Narayanganj	826		761	0		Containers (Denim fabrics)
16	HDC - Mongla	426		848.77	0		HR Plate
17	KPD Kolkatta-Khulna	523			933		Fabricated Steel Materials
41	Hindustan Natural Glass & Industries						
1	Rajmahal-Kolkata	443		0	0		Silica Sand, Cement
42	M/s. Spring Professional Services Pvt.						
1	Haldia-Patna	920	352	0	0		Cement
2	Varanasi-GR Jetty 2	1171	12	0	0		Cars
3	Gayaspur to bhagalpur	210		210	0		Cement
4	Sahibganj to Manihari	8		47800	0		Stone Chips

Details of Cargo Moved on National Waterways (National Waterway No.1) - THE GANGA-BHAGIRATHI-HOOGHLY RIVER SYSTEM

Table No. 2.2 (Contd...)

							(In tonnes)
Sl. No.	River/Stretch	Approximate Distance (Kms)	2016-17	2017-18	2018-19	2019-20	Cargo generally moved
1	2	3	4	5	6	7	9
43	M/s. Srimaa Import & Export Pvt. Ltd.						
1	HDC Haldia-Mongla	426	2074	0	0		Steel Coils and Plates
2	HDC Haldia-Narayanganj	826	1558	0	0		Steel coils
3	HDC Haldia-Pangaon	842	805	0	0		20 teu container (35 no)
4	KPD Kolkata- Mawa via Narayanganj	910	2500	0	0		Stone / Pebbles
5	KPD Kolkata- Mongla	510	1949	0	0		Steel Plates
6	KPD Kolkata- Narayanganj	910	2131	0	0		Pakur Crushed Stone / Pebbles
44	Mags Impex Pvt. Ltd.						
1	T.T.Shed-Narayanganj	910	715	0	0		Flyash
45	H.P Shipping Lines.						
	T.T. Shed - Narayanganj	910		33297	12685	14886	Flyash
	T.T. Shed - Khulna					665	
	GR Jetty2-Narayanganj					712	
46	Pioneer Shipping Lines						
1	T.T. Shed - Narayanganj	910	...	1998	0		Flyash
2	IWAI BISHN Jetty- Narayanganj	909	...	1426	0		Flyash
3	Budge Budge- Narayanganj	884	...	717	0		Flyash
4	G.R.Jetty 2- Narayanganj	909	...	2107	0		Flyash
47	Rain Maker						
1	IWAI Haldia Jetty- Narayanganj	826	...	8837	34902	42924	Flyash
2	Budge Budge- Narayanganj	884	...	3087	3077	4241	Flyash
3	G.R.Jetty 2- Narayanganj	909	...	4264	33553	28200	Flyash
4	IWAI BISHN Jetty- Narayanganj	909	...	696	2971	28131	Flyash
5	Budge Budge- Khulna	497	...		1729	2204	Flyash
6	IWAI BISHN Jetty- Khulna	522	...		875	8075	Flyash
7	T.T. Shed - Khulna	523	...		1392	1790	Flyash
8	HDC Fly Ash Jetty- Narayanganj	826	...		1154		Flyash
9	T.T. Shed - Narayanganj	910	...		21328	27907	Flyash
	GR Jetty2- Khulna					3762	
	IWAI Haldia Jetty- Khulna					8770	
48	M/s Rajesh Kumar						
1	Samdaghat (Sahebganj) to Manihari &	14		237,300	506,950		Stone Chips
49	M/s. Rajesh Auto Merchandise Pvt.						
1	Kolkata-Manik Chak	436			5729		Coal
	Manglahat-Begusarai	233				110	ODC
50	M/s. M. K. Shipping*						
1	Budge Budge- Narayanganj	884			1065		Fly Ash
51	M/s. Vinayak Shipping*						
1	Budge Budge- Narayanganj	884	...	...	2540		Fly Ash
2	T.T. Shed - Narayanganj	910	...	...	865		Fly Ash
	IWAI BISHN Jetty-Narayanganj					908	
	IWAI Haldia Jetty-Narayanganj					909	
52	M/s Sushe Marine Services Pvt. Ltd.*						
1	Samdaghat (Sahebganj) to Manihari &	14	...	...	105,000	100,200	Stone chips
53	M/s Haldia Nirman Project Pvt. Ltd.*						
1	Samdaghat (Sahebganj) to Manihari &	14	...	...	67,200		Stone chips
2	Sahebganj to Tintanga	69	...	...	200		Stone chips
3	Sahebganj to Kahalgaon	64	...	...	200		Stone chips
54	M/s. Abhi Priya Ventures						
1	Budge Budge-Khulna	497				1069	Fly Ash
2	Budge Budge-Narayanganj	884				30355	Fly Ash
3	G.R. Jetty-2- Khulna	522				8118	Fly Ash
4	G.R. Jetty-2- Narayanganj	909				17106	Fly Ash
5	Haldia HDC Jetty- Narayanganj	826				1795	Fly Ash
6	HDC Fly Ash Jetty, Haldia- Narayanganj	826				15032	Fly Ash
7	IWAI BISHN Jetty- Khulna	522				1740	Fly Ash

Details of Cargo Moved on National Waterways (National Waterway No.1) - THE GANGA-BHAGIRATHI-HOOGHLY RIVER SYSTEM

Table No. 2.2 (Contd....)

(In tonnes)							
Sl. No.	River/Stretch	Approximate Distance (Kms)	2016-17	2017-18	2018-19	2019-20	Cargo generally moved
1	2	3	4	5	6	7	9
8	IWAI BSN Jetty- Mongla	509				680	Fly Ash
9	IWAI Haldia Jetty- Khulna	439				4056	Fly Ash
10	IWAI Haldia Jetty- Narayanganj	826				25998	Fly Ash
11	T.T. Shed- Mongla	510				718	Fly Ash
12	T.T. Shed- Narayanganj	910				5731	Fly Ash
55	<u>Assetment Marine & Traders Pvt. Ltd.</u> IWAI Haldia jetty- Narayanganj	826				1099	Fly Ash
56	<u>M/s. Fortune Transport</u> Budge Budge- Narayanganj G.R. Jetty-2- Khulna G.R. Jetty-2- Narayanganj IWAI BSN Jetty-Khulna IWAI BSN Jetty- Narayanganj T.T. Shed-Narayanganj	884 522 909 522 909 910				14004 1834 6108 825 10120 13408	Fly Ash Fly Ash Fly Ash Fly Ash Fly Ash Fly Ash
57	<u>M/s. IA3 Enterprise</u> Budge Budge-Narayanganj G.R. Jetty-2-Narayanganj HDC Fly Ash Jetty, Haldia-Narayanganj IWAI BSN Jetty-Narayanganj IWAI Haldia Jetty-Narayanganj T.T. Shed-Narayanganj	884 909 826 909 826 910				9054 2250 1250 1290 9234 4283	Fly Ash Fly Ash Fly Ash Fly Ash Fly Ash Fly Ash
58	<u>M/s. Intel International Logistics</u> BTPS Jetty, Tribeni-Khulna G.R. Jetty-2-Khulna	577 522				1800 7028	Fly Ash Fly Ash
59	<u>M/s. Ishan Enterprise</u> Budge Budge-Narayanganj G.R. Jetty-2-Narayanganj IWAI BSN Jetty-Narayanganj IWAI Haldia Jetty-Narayanganj	884 909 909 826				5533 3279 2721 930	Fly Ash Fly Ash Fly Ash Fly Ash
60	<u>M/s. Lift & Shift India Pvt. Ltd</u> Diamond Harbour-Semaria Diamond Harbour-Semaria Diamond Harbour-Sahebganj Diamond Harbour-Sahebganj Diamond Harbour-Semaria	789 789 554 554 789				420.508 640.66 47 275.31 275.31	Ammonia Converter Ammonia Converter, Ammonia Vent drum Ammonia Vent drum Secondary Reformer Main Equipment & Flare KO Drum Secondary Reformer Main Equipment & Flare KO Drum
61	<u>M/s. Maritime Logistics</u> KP Dock, Kolkata-Mongla NS Dock, Kolkata-Mongla G.R. Jetty-2-Mongla Kolkata-Narayanganj	510 508 509 910				4260.408 2036 1736.35 1023	Component of Steam Turbine & Auxiliaries, Turbo Generator Component of Steam Turbine & Auxiliaries, Turbo Generator Steam Turbine & Auxiliaries and Steel Cargo Stone Chips
62	<u>M/s. Tidal Marine Services</u> Budge Budge-Narayanganj G.R. Jetty-2-Khulna IWAI Haldia Jetty-Khulna IWAI Haldia Jetty-Narayanganj T.T. Shed-Khulna IWAI Haldia Jetty-Khulna IWAI Haldia Jetty-Narayanganj	884 522 439 826 523 439 826				4666 680 2414 8918 1450 724 806	Fly Ash Fly Ash Fly Ash Fly Ash Fly Ash Steam Coal Steam Coal
63	Daewoo-L&T Gaighat-Raghopur	10				2809	TMT bars and other steel structures
64	<u>APSEZ Ltd</u> Sahibganj MMT- Karagola	43				7950	Stone chips
65	Adani Wilmar Manglahat-Sahibganj	39				1300	Edible Oil
66	Suman Forwarding Agency Samdaqhat-Manihari	14				2160	Stone Chips
Sub Total (C)		-	2955773	3534587	4256036	4219102	

Details of Cargo Moved on National Waterways (National Waterway No.1) - THE GANGA-BHAGIRATHI-HOOGHLY RIVER SYSTEM

Table No. 2.2 (Contd...)

							(In tonnes)
Sl. No.	River/Stretch	Approximate	2016-17	2017-18	2018-19	2019-20	Cargo generally moved
1	2	3	4	5	6	7	8
D	IWAI Vessels						
1	Rajmahal -Patna	368	78349				Cement
2	Samdaghajati-Manihari		...		...		Stone chips
3	Samdaghajati-Patna		...		...		Stonechips
4	Kolaghat-Bhagalpur (Dalmia Bharti	672		240	...		Cement
5	Kahalgaon-Kolaghat (Dalmia Bharati	647		300	...		Bagged Flyash
6	Putimary Jetty-G.R. Jetty-2 (Desha	384.5			300		Stone Chips
7	Mining Pvt. Ltd.)	443			1214		High Silica Sand
8	BTPS Jetty, Tribeni-Falta (IFB Agro	110			260		Broken Rice
	Industries Ltd)						
9	Kahalgaon-Pandu, Assam (M/s. Star	2123			1227		Fly Ash
	Cement Ltd.)						
10	HDC-Dhubri(M/s. Fuel Sources (India	1266			924		Steam Coal
	Pvt. Ltd.)						
	Other vessels in Patna region		162520		...		
11	Rajmahal to Bhagalpur	128		240	...		
12	Fathua to Bhagalpur	230		200	...		
13	Kahalgaon to Rajmahal	103		300	...		
14	Rajmahal -Patna	368			220		Fly Ash
15	Rajmahal to Varanasi	725			16 TEU's		Containerised Cargo
16	Varanasi to Rajmahal	725			32 TEU's		Containerised Cargo
Sub Total (D)		-	240869	1280	4145	0	
E	KOPT						
1	Sagar- KPD	146	726260	987738	1083000	1955000	Iron Ore,Iron & Steel,Log, Pulses, sulphur,Lime stone, Machinery, Manganese Ore, Petroleum Coke, Rice & Wheat, Other Coke/Coal,Coking Coal, Pet Coke, Fertilizer, Sugar,Rock Phosphate, Timber, Met Coke, Other/Misc.
2	Kolkatta-Sagar	146		0	0		Iron Ore, Iron & Steel ,Other/Misc.
3	Diamond Harbour - KPD	78	298000	678000	1708000		Pulses, Iron & Steel, Iron Ore, Lime Stone, Manganese Ore, Thermal Coal, Other Coke/Coal, Coking Coal, Met Coke, Fertiliser, Rock Phosphate, Timber, Other/Misc
4	Sagar-Kolkatta	146	...	0	0		Iron Ore,Pulses,Sugar,Timber,Coking Coal,Rock Phosphate,Rice & Wheat,Fertiliser,Manganese Ore,Pet Cock
5	Kolkatta-Diamond Harbour		...	...	...
6	Diamond Harbour-Kolkatta	78	...	...	...		Iron Ore, Sugar, Pet Cock, Pulses, Cokjing, Fertilizer,
7	KPD- Sagar	146		4000	0		Limestone,Cooking oil
8	KPD-Diamond Harbour	78		6000	0		Iron & Steel, Rice, Wheat
Sub Total (E)			1024260	1675738	2791000	1955000	Rice & Wheat
F	Traffic from River Sone to NW-1	27				800000	Stone Chips
G	Unorganized Ro-Ro movements in West Bengal	0.5				2138295	Passengers and household goods
Total (NW-I) (A+B+C+D+ E+F+G)			4505377	5479362	7349330	9112397	

Table No. 2.2 (Contd...)

Details of Cargo Moved on National Waterways (National Waterway No.II)- BRAHMAPUTRA

(In tonnes)

Sl. No.	River/Stretch	Approximate Distance (Kms)	2016-17	2017-18	2018-19	2019-20	Cargo generally moved
1	2	3	4	5	6	7	8
A	Organised Cargo	32	1,060	2,232.8	5,123	6553	Transformers of power grid, Transmission equipments ,Goods, Passengers,Bicycle, bikes,live stock
B	IWTD Assam		1,981,935	2,598,994	2,369,814		
C	Unorganised Sector	20	607,759	560,924.2	496,880	386214	
Sub Total (A+B+C)			2,590,754	3,162,151	2,871,817	392,767	
Total (NW-II)(A+B+C)			2,590,754	3,162,151	2,871,817	392,767	

Details of Cargo Moved on National Waterways (National Waterway No.III) - WEST COAST CANAL, CHAMPAKARA CANAL & UDYOG MANDAL CANAL

(In tonnes)

Sl. No.	River/Stretch	Approximate Distance (Kms)	2016-17	2017-18	2018-19	2019-20	Cargo generally moved
1	2	3	4	5	6	7	8
A.	CHAMPAKARA CANAL						
1	KSINC						
	Cochin Port-FACT-CD	21.5	217257.00		-		Raw Sulphur, Rock Phosphate & Phosphoric Acid etc..
	Q10 Berth-CPT-Fact, CD	21	...	177044.00	138,913	95,260.00	Sulpher,Rock Phosphate,Phosphoric Acid
	BPCL Irumbanam-Ship Bunkring	16			-		Furnace Oil
	FACT(Ammonia jetty)-FACT CD	21				85,868	Sulpher,Rock Phosphate,Phosphoric Acid
	Q10 Berth-CPT-Fact, UD						
2	LOTS Shipping & Trading						
	Cochin Port-FACT-CD	21.5	76153.00				Raw Sulphur, Rock Phosphate & Phosphoric Acid & Stone aggregates
	Q10 Berth-CPT-Fact, CD	21		49242.00	118,067	103,379	Phopharic Acid,Sulphur,Rock Phosphate
	BPCL Irumbanam-Fact, PD (dist.in Ch. Canal)	16.5	...				Furnace Oil
	Bolqatty to W. Island	3.7	608670.00				Various commodities in containers
	Q10 Berth-CPT-Fact, UD						
3	Kerala Backwater Navigation						
	Cochin Port -FACT CD	21.5/27					Rock Phosphate, Sulphur, LAG
	FACT,PD- FACT, CD	21	31264.00	36,864		51,200	LAG
	FACT , Ammonia jetty- FACT, CD	27	16704.00			14,784	LAG
	FACT , Ammonia jetty- FACT, PD	20	4416.00				LAG
	FACT , Ammonia jetty- FACT, PD(via mat	22		12,762			
	W. Island ammonia jetty to FACT(CD)	22			57,216		LAG
4	FACT Ltd.*						
	W. Island ammonia jetty to FACT(CD)	22			17,560		LAG
	FACT , Ammonia jetty- FACT, CD	27				14,826	LAG
	FACT,PD- FACT, CD	21				50,304	LAG
5	Tisha Navigation Inc.						
	Kakanadu Terminal -Sea	21				5,054	
Sub Total			954,464	275,912	331,756	420,675	
B.	UDYOGMANDAL CANAL						
1	LOTS Shipping & Trading*						
	Cochin Port FACT-UD	20	41926				Zibframe, Sulphur, Furnance oil, Zinc

Table No. 2.2 (Contd...)

**Details of Cargo Moved on National Waterways (National Waterway No.III) - WEST
COAST CANAL, CHAMPAKARA CANAL & UDYOG MANDAL CANAL**

(In tonnes)

Sl. No.	River/Stretch	Approximate Distance (Kms)	2016-17	2017-18	2018-19	2019-20	Cargo generally moved
1	2	3	4	5	6	7	8
	BPCL Irumbanam- FACT PD	11					Furnace Oil
	Q10 CPT-Fact, UD	20	0	57,998	29,403	15,993	Phosphoric Acid, Sulphur
	Q6 Berth CPT-Binani Zinc Ltd.	22					Zinc.
	Q5 Berth CPT-Binani Zinc Ltd.	22					Zinc.
	South Coal Berth-Q10 Berth CPT	6					Furnace Oil
	South Coal Berth-Quter Roads	3/2					Furnace Oil
	SCB-ICTT	4					Furnace Oil
	Willinbgdon island- Bolgaty-Bolgaty	3.7	---	42860			various commodities in container
	Williangdon Island						
	Willinbgdon island						
	Q10 CPT-Fact-CD	20				167	Phosphoric Acid
2	KSINC*						
	Cochin Port-FACT UD	21	---				Rock Phosphate , Sulphur, Phosphoric Acid
	Q10 Berth, CPT-Fact UD	20	---	23612	3590	405	Phosphoric Acid, sulphur
	Ammonia jetty (w. Island) - FACT-CD					203	Phosphoric Acid
3	Kerala Back Water Navigation						
	Fact ,PD - FACT, CD	14.5	31264			51,200	Sulphur. Phosphoric Acid, LAG
	Fact ,CD - FACT, PD	14.5					Laq
	Ammonia jetty (w. Island) - FACT- PD	20	1728	23977	12264	1,536	Laq
4	Logos Agencies						
	Aluva Terminal-Sea	23.5	694				Liquid Effluent
5	Amrok Industrial & Investments						
	Aluva Terminal-Sea	23.5					Furnance oil
							Furnance oil
6	Cochin Bunkers						
	BPCL, Irumbanam - Fact PD	27.5					Liquid effluent
	IOC(BPT berth) - Fact PD	17					Liquid effluent
7	Tisha Navigation Inc.						
	Aluva Terminal - Sea		2091				Liquid effluent
	Bolgatty Terminal - Sea	6	672	2654			Liquid Effluent
	Kakanadu Terminal -Sea	21		976	3660		Liquid Effluent
8	FACT Ltd.*						
	W. Island ammonia jetty to FACT(CD)	20			39,392		LAG
	W. Island ammonia jetty to FACT-PD	14.5				5,568	LAG
	FACT,PD-FACT,CD					50,304	LAG
Sub Total			78375	152077	88309	125376	

Table No. 2.2 (Contd...)

**Details of Cargo Moved on National Waterways (National Waterway No.III) - WEST
COAST CANAL, CHAMPAKARA CANAL & UDYOG MANDAL CANAL**

(In tonnes)							
Sl. No.	River/Stretch	Approximate Distance (Kms)	2016-17	2017-18	2018-19	2019-20	Cargo generally moved
1	2	3	4	5	6	7	8
C.	THE WEST COASTAL CANAL						
1	KSINC Ltd*. Fine Arts Jetty- Vypeen ErnaKulam terminal-Cochin port	4 5			0		Potable water POL(Bunkering to Ship)
2	Travancore Cements Ltd. Vaikom- Chitramangalam	20			0		Lime shell with clay & other impurities
Sub Total			0	0	0	0	
D.	NW-3 & 9 ** ICTT VALLARPADAM TO KOTTAYAM PORT						
		75			247		TRIAL RUN OF NEWSPRINT
Total (NW-III) (A+B+C+D)			1032839	427989	420312	546051	
Total Cargo Moved on National Waterways (NW-							
GRAND TOTAL (NW-I+NW-II+NW-III)			8,128,970	9,069,502	10,641,458	10,051,215	

Source : Inland Waterways Authority of India

* Newly added Companies in 2018-19

** Newly added Stretch in 2018-20

SECTION – 3

**IWT ACTIVITIES –
STATE-WISE**

Table No. 3.1 **Number of IWT Vessels With Valid Certificate of Survey...By Type (As on 31st March 2020)**

Sl. No.	State/UT	Year	Self Propelled					Non-Self Propelled							Grand Total
			Cargo	Passenger	Cargo cum Passenger	Tugs & Pushers	Total (Col.3 to Col.6)	Dumb Barges	Dumb Tankers	Dumb Flat	Boats	Others @@	Total (Col.8 to Col.12)		
1	2		3	4	5	6	7	8	9	10	11	12	13	14	
	Andhra Pradesh	2018	-	-	-	-	-	-	-	-	-	-	-	-	
		2019	-	-	-	-	-	-	-	-	-	-	-	-	
		2020	-	-	-	-	-	-	-	-	-	-	-	-	
	Assam	2018	0	18	94	6	118	13	-	60	-	-	73	191	
		2019	0	25	94	6	125	13	0	60	0	0	73	198	
		2020	0	25	94	6	125	13	0	65	0	0	78	203	
	Bihar ***	2018	1	19*	74*	6	100	5	-	-	9	24	38	138	
		2019	1	19*	74*	6	100	5	-	-	9	24	38	138	
		2020	1	19*	74*	6	100	5	-	-	9	24	38	138	
	Goa	2018	133	116	-	16	265	1	-	-	-	-	1	266	
		2019	112	117	18	2	249	1	0	0	0	0	1	250	
		2020	82	146	13	3	244	-	-	-	-	-	0	244	
	Karnataka	2018	-	61	5	-	66	-	-	-	-	-	0	66	
		2019	-	61	5	-	66	-	-	-	-	-	0	66	
		2020	-	32	5	-	37	-	-	-	-	-	0	37	
	Kerala	2018	806	967	-	-	1773	26	3	2	770	5082	5883	7656	
		2019	268	270	0	0	538	27	0	4	275	5109	5415	5953	
		2020	3	60	2	0	65	32	0	0	5086	407	5525	5590	
	Maharashtra	2018	235	750	0	115	1100	66	-	-	-	-	66	1166	
		2019	197	951	49	73	1270	78	29	11	0	3	121	1391	
		2020	246	1194	17	101	1558	91	3	8	0	3	105	1663	
	Orissa	2018	-	-	635	-	635	-	-	-	-	-	0	635	
		2019	-	-	335	-	335	-	-	-	-	-	0	335	
		2020	-	-	73	-	73	-	-	-	-	-	0	73	
	West Bengal	2018	74	286	4	32	396	4	3	3	1768	42	1820	2216	
		2019	82	326	5	35	448	5	3	3	1823	45	1879	2327	
		2020	86	365	7	42	500	7	3	7	1823	41	1881	2381	
	Tamil Nadu	2018	-	-	-	-	0	-	-	-	2	-	2	2	
		2019	-	-	-	-	0	-	-	-	2	-	2	2	
		2020	-	-	-	-	0	-	-	-	2	-	2	2	
	MIZORAM	2018	-	-	-	-	0	-	-	-	-	-	0	0	
		2019	-	-	-	-	0	-	-	-	-	-	0	0	
		2020	-	-	-	-	0	-	-	-	-	-	0	0	
12	Nagaland	2018	-	-	-	-	0	-	-	-	-	-	0	0	
		2019	-	-	-	-	0	-	-	-	-	-	0	0	
		2020	-	-	-	-	0	-	-	-	-	-	-	0	
13	Gujarat	2019	207	1	0	169	377	46	0	6	6	60	118	495	
		2020	192	27	1	146	366	72	0	0	0	16	88	454	
	Grand Total	2018	1249	2217	812	175	4453	115	6	65	2549	5148	7883	12336	
		2019	867	1770	580	291	3508	175	32	84	2115	5241	7647	11155	
		2020	610	1868	286	304	3068	220	6	80	6920	491	7717	10785	

Source : Govt. of States & Union Territories

* Vessels are with various agencies in Bihar, and probably they are not certified registered as Bihar does not have IV rule as yet

***Information for the year 2017-18 & 2018-19 has not been received. Hence last received data has been repeated.

@@ Others includes country boats

Number of Passengers and Cargo Carried By Inland Water Vessels

Table No. 3.2

(Year Ending 31st March 2020)

Sl. No.	State/UT/Year	Year	Powered Vessels Employed for cargo (Nos.)	Powered Vessels Employed for passengers (Nos.)	Quantity of cargo carried (000' tonnes)	Total No. of passengers carried (000)
1	2	3	4	5	6	7
1	Andhra Pradesh	2016	-	-	-	-
		2017	-	-	-	-
		2018	-	-	-	-
		2019	-	-	-	-
		2020	-	-	-	-
2	Assam	2016	56	56	178.73@	16461.48
		2017	13	94	3871.07	9187.14
		2018	13	98	706066.16	9044.43
		2019	13	98	272873.15	8514.22
		2020	13	98	367669.60	6585.91
3	Bihar ***	2016	1	83	2.40	578.00
		2017	1	83	2.40	578.00
		2018	1	83	2.40	578.00
		2019	1	83	2.40	578.00
		2020	1	83	2.40	578.00
4	Goa	2016	81	38	429966.00	1440.00
		2017	106	115	116600.76	-
		2018	149	-	71902.10	-
		2019	121	-	14839.40	-
		2020	108	-	8200.00	-
5	Karnataka	2016	66	66	50.50 **	2003.71**
		2017	66	66	29.98	1747.77
		2018	66	66	93.27	1720.86
		2019	66	66	0.00	2158.00
		2020	37	37	24.45	1617.00
6	Kerala	2016	28	185	2912.06	13750.50
		2017	7	55	326.64	2994.72
		2018	17	87	44.80	22825.66
		2019	16	66	262.35	19739.08
		2020	16	74	56098.80	20535.31
7	Maharashtra	2016	...	...	14056.97	18074.00
		2017	-	-	17642.72	18281.73
		2018	-	-	18336.60	19095.00
		2019	-	-	20397.94	19291.70
		2020	-	-	20951.51	15922.30
8	Odisha	2016	-	9	-	164.00
		2017	-	9	-	157.00
		2018	-	9	-	132.00
		2019	-	11	-	128.62
		2020	-	11	-	131.22
9	West Bengal	2016	88	251	16730.00	66.49
		2017	90	262	22654.00	74468.00
		2018	110	286	36719.00	82897.00
		2019	132	321	46930.00	106492.00
		2020	135	335	56725.00	116880.00
10	MIZORAM	2016	-	-	-	-
		2017	-	-	-	-
		2018	-	-	-	-
		2019	-	-	-	-
		2020	-	-	-	-
11	Tamil Nadu	2016	-	-	-	-
		2017 *	-	-	-	-
		2018 *	-	-	-	-
		2019 *	-	-	-	-
		2020*	-	-	-	-
12	Nagaland	2018	-	-	-	-
		2019	-	-	-	-
		2020	-	-	-	-

Source : State Govt.

: Not Available-

* : The two boats operated in Mullai Periyar Lake are used for departmental purpose only.

***Information for the year 2019-20 has not been received. Peratins to last received data has been repeated.

SECTION – 4

IWT ACTIVITIES – PRIVATE COMPANIES/UNDERTAKINGS

Table No. 4.1 IWT Vessels With Valid Certificates of Survey-Owned By Responding Private Companies/Undertakings By Type (As on 31st March 2020)

Sl. No.	Company/ Undertaking and Year	Self Propelled				Non-Self Propelled (Dumb Barges) (No.)
		Type of vessel		Carrying capacity		
		Cargo (No.)	Passenger (No.)	Cargo(In thousandTonnes)	Passenger(In No.)	
1	2	3	4	5	6	7
1	S.V.Salgaocar, Goa*					
	2018	3	-	597.60	-	-
	2019	3	-	278.40	-	-
	2020	2	-	2.67	-	-
2	D.V.Salgaocar, Goa*					
	2018	3	-	612.00	-	-
	2019	3	-	170.40	-	-
	2020	Nil	Nil	Nil	Nil	Nil
3	V.M.Salgaocar Sales International*					
	2018	2	-	386.40	-	-
	2019	2	-	211.20	-	-
	2020	2	-	2.81	-	-
4	Sesa Resource Ltd Goa					
	2018	2	-	2139	-	-
	2019	2	-	2139	-	-
	2020	2	-	2139	-	-
5	Vedanta Ltd.					
	2018	32	1	42294	88	-
	2019	30	1	41150	88	-
	2020	30	1	41150	88	-
6	Goa Ore Carriers					
	2018	1	-	55.80	-	-
	2019 @	-	-	-	-	-
	2020	2	-	5200	-	-
7	Maharshi Shipping Co.					
	2018	5	-	184.56	-	-
	2019	5	-	184.56	-	-
	2020	6	-	284.56	-	-
8	Indo-Swiss Trading Co. Kolkata.					
	2018	-	2	118	270	-
	2019	-	2	118	270	-
	2020	-	2	118	270	-
9	Vivada Inland Waterways Ltd. Kolkata					
	2018	10	6	695.26	180975	-
	2019	8	0	5.250	-	2
	2020	10	6	895.262	19185	-
10	West Bengal Surface Transport Corporation Ltd					
	2018	5	47	-	38069650	-
	2019	5	47	-	38069650	-
	2020	8	78	-	61068650	-

Table No. 4.1 IWT Vessels With Valid Certificates of Survey-Owned By Responding Private Companies/Undertakings By Type (As on 31st March)
(Contd...)

Sl. No.	Company/ Undertaking and Year	Self Propelled				Non-Self Propelled (Dumb Barges) (No.)
		Type of vessel		Carrying capacity		
		Cargo (No.)	Passenger (No.)	Cargo(in thousand Tonnes)	Passenger(in No.)	
1	2	3	4	5	6	7
11	Hooghly Nadi Jalapath Paribahan Samabaya Samity, Kolkata					
	2018	-	34	-	27250167	-
	2019	-	34	-	27250167	-
	2020	-	40	-	50550129	-
12	West Bengal Tourism Development Corporation limited, Kolkata					
	2018	-	3	-	15940	-
	2019	-	3	-	15940	-
	2020	-	8	-	35940	-
13	Eastern Navigation (P) Ltd., Kolkata					
	2018	28	2	556.34	-	-
	2019	15	-	3.95	-	19
	2020	14	-	3.95	-	19
14	Ghatal Steam Navigation (P) Ltd., Kolkata					
	2018	-	3	-	135508	-
	2019	-	3	-	135508	-
	2020	-	4	-	475508	-
15	Diamond Harbour Municipality, Kolkata					
	2018	-	3	-	128729	-
	2019	-	3	-	128729	-
	2020	-	3	-	239729	-
16	Bengal Heritage River					
	2018	-	3	-	18840	-
	2019	-	3	-	18840	-
	2020	-	8	-	37940	-
17	Chandan Nagar Municipality, Kolkata					
	2018	-	5	-	21608	-
	2019	-	5	-	21608	-
	2020	-	3	-	51608	-
18	Sohom Shipping Pvt.Ltd.					
	2018	4	-	...	-	-
	2019	9	-	6.569	-	-
	2020	6	-	224.21	-	-
19	Assam Bengal Steam Navigation					
	2018	2	-	-	16540	-
	2019	-	4	2.402	124	-
	2020	-	4	-	122	-
20	Pioneer Shipping Lines					
	2018	-	-	-	-	-
	2019	-	-	-	-	-
	2020	-	-	-	-	-

Table No. 4.1
(Contd...)

IWT Vessels With Valid Certificates of Survey-Owned By Responding Private Companies/Undertakings By Type (As on 31st March)

Sl. No.	Company/ Undertaking and Year	Self Propelled				Non-Self Propelled (Dumb Barges) (No.)
		Type of vessel		Carrying capacity		
		Cargo (No.)	Passenger (No.)	Cargo(In thousand Tonnes)	Passenger(in No.)	
1	2	3	4	5	6	7
21	Ganges Water Transport Co. Pvt.					
	2018	2	-	2.86	-	-
	2019	2	-	5.28	-	-
	2020	2	-	5.40	-	-
22	Krishna Shipping & Logistics Ltd.					
	2018	4 #	-	1.86	-	2
	2019	5	-	2.08	-	2
	2020	7	-	3.70	-	-
23	JSW Salav Steel Ltd.					
	2018	-	-	-	-	-
	2019	7	-	12.57	-	-
	2020	NA	NA	NA	NA	NA
24	Finolex Industries Ltd.					
	2018	1	-	0.01	6	-
	2019	1	-	0.01	6	-
	2020	NA	NA	NA	NA	NA
25	Lots Shipping Ltd.					
	2018	4	-	1.19	-	1
	2019	4	-	1.19	-	1
	2020	2	-	770000.00	-	1
26	Jsw Jaigarh Port Ltd.					
	2018	2	-	10.53	-	-
	2019	2	-	10.53	-	-
	2020	5	-	21.06	-	-
27	Global Shipping & Forwarding					
	2018	9	-	6.99	-	-
	2019	9	-	9.14	-	-
	2020	-	-	-	-	-
28	Infrastructure Logistics Pvt. Ltd.					
	2018	4	-	199.52	-	-
	2019	2	-	105.77	-	-
	2020	2	-	104.51	-	-
29	Kerala Shipping & Inland Navigation Co. Ltd.					
	2018	3	-	1.05	-	-
	2019	3	-	1.05	-	-
	2020	6	-	1.76	-	-
30	Timblo Pvt. Ltd.					
	2018	4	1	6.099 + (60 kilo ltrs.)	14	-
	2019	4	1	5.950 + (60 kilo ltrs.)	14	-
	2020	1	1	0.149+(60 Kilo ltrs.)	14	-
31	Backwater Navigation Co.					
	2018	1	-	0.43	-	-
	2019	1	-	0.69	-	-
	2020	1	-	0.19	-	-
32	Indo Energy International Ltd.					
	2018	11	-	11.84	-	-
	2019	11	-	11.84	-	-
	2020	NA	NA	NA	NA	NA

Table No. 4.1
(Contd...)

IWT Vessels With Valid Certificates of Survey-Owned By Responding Private Companies/Undertakings By Type (As on 31st March)

Sl. No.	Company/ Undertaking and Year	Self Propelled				Non-Self Propelled (Dumb Barges) (No.)
		Type of vessel		Carrying capacity		
		Cargo (No.)	Passenger (No.)	Cargo(in thousand Tonnes)	Passenger(in No.)	
1	2	3	4	5	6	7
33	K.K. Shipping					
	2018	-	-	-	-	-
	2019	1	-	0.41	-	-
	2020	1	-	0.27	-	-
34	Haldia Nirman Projects P. Ltd.					
	2018	3	-	1.998	-	-
	2019	3	-	1.998	-	-
	2020	3	-	1.998	-	-
35	Angre Port Pvt. Ltd.					
	2018	-	-	-	-	-
	2019	-	-	-	-	-
	2020	Nil	Nil	Nil	Nil	Nil
36	M/S Neli					
	2018	1	-	1.55	-	-
	2019	1	-	0.37	-	-
	2020	1	-	0.37	-	-
37	Spring Professional Services Pvt. Ltd.					
	2019	-	1	-	70	-
	2020	-	-	-	-	-
38	JSW Dharamtar Port Pvt. Ltd.					
	2019	-	-	-	-	3
	2020	-	-	-	-	-
39	PNP Maritime Services Pvt. Ltd.					
	2019	25	-	31.24	-	-
	2020	-	-	-	-	-
40	Mags Impex (Shipping) Pvt. Ltd.					
	2019	-	-	-	-	-
	2020	-	-	-	-	-
41	Minescape Minerals Pvt. Ltd.					
	2019	6	-	13.45	-	-
	2020	-	-	-	-	-
42	Nirakar Engineering Services Ltd.					
	2019	1	-	1	-	-
	2020	2	-	4400	-	-
43	Star Cement					
	2019	-	-	-	-	-
	2020	Nil	Nil	Nil	Nil	Nil
44	Kottayam Port and Container Terminal Pvt. Ltd.					
	2019	1	-	0.160	-	-
	2020	1	-	0.160	-	-
45	FACT (Coachin Division)					
	2019	1	-	0.417	-	-
	2020	1	-	0.417	-	-
46	Brahmaputra Cruises					
	2019	-	1	-	150	1
	2020	-	1	-	180	-
47	Adventure Resorts & Cruises Pvt. Ltd.					
	2018	-	1	-	46	-
	2019	-	3	1.25	68	-
	2020	-	3	1.25	68	-
48	Pennon Shipping					
	2019	1	-	1.798	-	-
	2020	5	-	9.094	-	-

**Table No. 4.1
(Contd...)**

**IWT Vessels With Valid Certificates of Survey-Owned By Responding
Private Companies/Undertakings By Type (As on 31st March)**

Sl. No.	Company/ Undertaking and Year	Self Propelled				Non-Self Propelled (Dumb Barges)
		Type of vessel		Carrying capacity		
		Cargo (No.)	Passenger (No.)	Cargo(In	Passenger(In No.)	
1	2	3	4	5	6	7
49	Heritage River Journeys Pvt. Ltd.					
	2019	-	3	-	168	-
	2020	-	3	-	168	-
50	Jindal ITF Ltd.					
	2018	28	-	425.27	-	-
	2019	28	-	425.27	-	-
	2020	28	-	625.27	-	-
51	M/S AIE IMPEX**					
	2020	Nil	Nil	Nil	Nil	Nil

2 Tugs and 2 Loading Barge

@ Barges have not been plying due to mining ban in Goa

Note : This table covers only those IWT operators from whom the data/reply is received by TRW.

* These three covered under the company V.M. Salgaocar & Bros.Pvt.Ltd.

**Added in the Table for the first time

NA- Not Applicable

Table No. 4.2

Cargo/Passenger Carried And Freight Collected - By Responding Private Companies/ Public Undertakings
(Year Ending 31st March 2020)

Sl.No.	Company/Undertaking and Year	Type of Vessels	No. of Powered Vessels Employed	Distance Travelled (Kms)	Freight Collected (Rs.in Lakh)	Cargo Carried		Passenger Carried	
						Cargo (in Tonnes)	TKms (in millions)	Passenger (in No.)	PKms
1	2	3	4	5	6	7	8	9	10
1	S. V. Salgaocar, Goa*								
	2018	Cargo	3	17430	450.57	597600	10416.17	-	-
	2019	Cargo	3	8120	222.72	278400	2260.61	-	-
	2020	Cargo	2	2296	55.34	85,098	0.20	-	-
2	D. V. Salgaocar, Goa*								
	2018	Cargo	3	17850	313.85	612000	10924.20	-	-
	2019	Cargo	3	4970	136.32	170400	846.89	-	-
	2020	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
3	V.M.Salgaocar Sales International*								
	2018	Cargo	2	11270	124.54	386400	4354.73	-	-
	2019	Cargo	2	6160	168.96	211200	1300.99	-	-
	2020	Cargo	2	3168	65.59	92837	294.11	-	-
4	Sesa Resources Ltd Goa								
	2018	Cargo	2	11736	(c)	183955	2158.90	-	-
	2019	Cargo	2	7550	(c)	98550.07	744.05	-	-
	2020	Cargo	2	10526	(c)	251749.16	2649.91	-	-
5	Vedanta Ltd.								
	2018	Cargo/Passenger	32	184892	(c)	4638637	857646.87	-	-
	2019	Cargo/Passenger	32	103000	(c)	1971614.76	203076.32	-	-
	2020	Cargo/Passenger	17	51035	(c)	1789296.32	91316.74	-	-
6	Goa Ore Carriers								
	2018	Cargo	1	2790	50.22	55800	155.68	-	-
	2019@	-	-	-	-	-	-	-	-
	2020	Cargo	2	36864	347.62	489600	18048.61	-	-
7	Maharshi Shipping Co.								
	2018	Cargo	5	-	154.36	184560	-	-	-
	2019	Cargo	5	-	154.36	184560	-	-	-
	2020	Cargo	6	-	186.63	284560	-	-	-
8	Indo-Swiss Trading Co.Pvt. Ltd., Kolkata								
	2018	Pass.	3	15615	153.00	-	-	141038	-
	2019	Pass.	2	15450	-	-	-	-	-
	2020	Pass.	2	16472	-	-	-	-	-
9	VIVADA Inland Waterways Ltd., Kolkata								
	2018	Cargo/Tug/Pass/LCT	16	-	904.38	695262	-	180975	-
	2019	Cargo/Tug/Pass/LCT	10	10132	-	273600	2772.12	-	-
	2020	Cargo/Tug/Pass/LCT	16	-	1008.39	895262	-	19185	-
10	W. Bengal Surface Transport Corporation Ltd., Kolkata								
	2018	Pass./LCT	56	-	782.56	35581(b)	-	38069650	-
	2019	Pass./LCT	56	-	782.56	35581(b)	-	38069650	-
	2020	Pass./LCT	86	-	882.56	46581(b)	-	61068650	-

Table No. 4.2 (Contd...)

Cargo/Passenger Carried And Freight Collected - By Responding Private Companies/ Public Undertakings
(Year Ending 31st March)

Sl.No.	Company/Undertaking and Year	Type of Vessels	No. of Powered Vessels Employed	Distance Travelled (Kms)	Freight Collected (Rs.in Lakh)	Cargo Carried		Passenger Carried	
						Cargo (in Tonnes)	TKms (in millions)	Passenger (in No.)	PKms
1	2	3	4	5	6	7	8	9	10
11	Hooghly Nadi Jalapath Paribahan Samabaya Samity, Kolkata								
	2018	Pass.	34	-	483.72	-	-	27250167	-
	2019	Pass.	34	-	483.72	-	-	27250167	-
	2020	Pass.	40	-	583.72	-	-	50550129	-
12	West Bengal Tourism Development Corpn. Ltd., Kolkata								
	2018	Pass.	3	-	98.27	-	-	15940	-
	2019	Pass.	3	-	98.27	-	-	15940	-
	2020	Pass.	8	-	106.27	-	-	35940	-
13	Eastern Navigation (P) Ltd., W. Bengal, Kolkata								
	2018	Cargo/Tug/Pass.	30	-	418.25	556340	-	-	-
	2019	Cargo/Tug/Pass.	3	1600	80.00	800	1.28	-	-
	2020	Cargo/Tug/Pass.	14	1400	50.00	600	0.84	-	-
14	Ghatal steam Navigation (P) Ltd. Kolkata								
	2018	Pass.	3	-	149.29	-	-	135508	-
	2019	Pass.	3	-	149.29	-	-	135508	-
	2020	Pass.	4	-	288.12	-	-	475508	-
15	Diamond Harbour Municipality, Kolkata								
	2018	Pass.	3	-	153.56	-	-	128729	-
	2019	Pass.	3	-	153.56	-	-	128729	-
	2020	Pass.	3	-	167.19	-	-	239729	-
16	Assam Bengal Steam Navigation								
	2018	Tugs	2	-	-	-	-	16540	-
	2019	-	4	2242	-	-	-	1040	-
	2020	-	9	2692	-	-	-	995	-
17	Bengal Heritage River								
	2018	Tugs	3	-	28.45	-	-	18840	-
	2019	Tugs	3	-	28.45	-	-	18840	-
	2020	Tugs	8	-	37.46	-	-	37940	-
18	Chandan Nagar Municipality, Kolkata								
	2018	Pass.	5	-	7.45	-	-	21608	-
	2019	Pass.	5	-	7.45	-	-	21608	-
	2020	Pass.	3	-	9.45	-	-	51608	-
19	Soham Shipping Pvt.Ltd.								
	2018	Cargo	4	-	129.72	124210	-	-	-
	2019	Cargo	-	-	-	-	-	-	-
	2020	Cargo	6	-	125.72	224210	-	-	-
20	Pioneer Shipping Lines								
	2018	-	-	-	-	-	-	-	-
	2019	-	-	-	-	-	-	-	-
	2020	-	-	-	-	-	-	-	-

Table No. 4.2 (Contd...)

Cargo/Passenger Carried And Freight Collected - By Responding Private Companies/ Public Undertakings
(Year Ending 31st March)

Sl.No.	Company/Undertaking and Year	Type of Vessels	No. of Powered Vessels Employed	Distance Travelled (Kms)	Freight Collected (Rs.in Lakh)	Cargo Carried		Passenger Carried	
						Cargo (in Tonnes)	TKms (in millions)	Passenger (in No.)	PKms
1	2	3	4	5	6	7	8	9	10
21	Ganges Water Transport Co. Pvt. Ltd.								
	2018	Cargo	2	5699.00	342.26	116995	666.75	-	-
	2019	Cargo	2	40410	289	95863	3873.82	-	-
	2020	Cargo	2	4486	258.12	88254	395.91	-	-
22	Krishna Shipping & Logistics Ltd.								
	2018	-	-	-	-	-	-	-	-
	2019	-	-	-	-	-	-	-	-
	2020	NA	NA	NA	NA	NA	NA	NA	NA
23	JSW Salav Steel Ltd.								
	2018	-	-	-	-	-	-	-	-
	2019	-	7	2070	-	553175.5	1145.07	-	-
	2020	Cargo	9	2214	-	555559.9	1230.01	-	-
24	Finolex Industries Ltd.								
	2018	-	-	-	-	-	-	-	-
	2019	-	-	-	-	-	-	-	-
	2020	NA	NA	NA	NA	NA	NA	NA	NA
25	Lots Shipping Ltd.								
	2018	Cargo	4	18895	77	175267	3311.67	-	-
	2019	Cargo	4	18895	77	175267	3311.67	-	-
	2020	Cargo	2	9380	267	95360	1644.00	-	-
26	Jsw Jaigarh Port Ltd.								
	2018	Cargo	2	48256	-	734000	35419.90	-	-
	2019	Cargo	2	88160	-	1337000	117869.92	-	-
	2020	Cargo	4	51728	-	1533000	79299.02	-	-
27	Global Shipping & Forwarding								
	2018	-	-	-	-	-	-	-	-
	2019	-	-	-	-	-	-	-	-
	2020	-	-	-	-	-	-	-	-
28	Infrastructure Logistics Pvt.								
	2018	Cargo	4	7400	(d)	199515	1476.41	-	-
	2019	Cargo	2	4700	(d)	105772	497.13	-	-
	2020	Cargo	2	4700	(d)	104510	491.20	-	-
29	Kerala Shipping & Inland Navigation Co. Ltd.								
	2018	Cargo	3	27132	357.68	200658	5444.25	-	-
	2019	Cargo	7	13230	246.48	139210	1841.75	-	-
	2020	Cargo	6	22982	409.98	173801	3994.29	-	-
30	Timblo Pvt. Ltd.								
	2018	Cargo/Passenger	5	3467	111.20	151200+960 Kilo Ltrs.)	524.19	-	-
	2019	Cargo/Passenger	5	1904	64.89	63139+353 Kilo Ltrs.)	287.86	-	-
	2020	Cargo/Passenger	2	956	3.83	38550+34KL	144.49	-	-
31	Backwater Navigation Co.								
	2018	Cargo	1	17072	260.74	74496	1271.80	-	-
	2019	Cargo	1	25986	241.00	70272	1826.09	-	-
	2020	Cargo	1	25560	257.00	69056	1765.07	-	-
32	Indo Energy International Ltd.								
	2018	Cargo	11	58900	-	1041963	61371.62	-	-
	2019	Cargo	11	44206	-	944637	41758.62	-	-
	2020	NA	NA	NA	NA	NA	NA	NA	NA
33	K.K. Shipping								
	2018	-	-	-	-	-	-	-	-
	2019	Cargo	1	2340	9.33 e	1000	2.34	-	-
	2020	Cargo	1	1560	15.47 e	1520	2.37	-	-
34	Haldia Nirman Projects P. Ltd.								
	2018	Cargo	3	-	-	75000	-	-	-
	2019	Cargo	3	-	-	75000	-	-	-
	2020	Cargo	3	-	-	-	-	-	-

Table No. 4.2 (Contd...)

Cargo/Passenger Carried And Freight Collected - By Responding Private Companies/ Public Undertakings
(Year Ending 31st March)

Sl.No.	Company/Undertaking and Year	Type of Vessels	No. of Powered Vessels Employed	Distance Travelled (Kms)	Freight Collected (Rs.in Lakh)	Cargo Carried		Passenger Carried	
						Cargo (in Tonnes)	TKms (in millions)	Passenger (in No.)	PKms
1	2	3	4	5	6	7	8	9	10
35	Angre Port Pvt. Ltd.	-	-	-	-	-	-	-	-
	2018	-	-	-	-	-	-	-	-
	2019	-	-	-	-	-	-	-	-
	2020	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
36	M/S Neli								
	2018		-	-	-	-	-	-	-
	2019	Cargo	1	6240	64.31 e	6887	43	-	-
	2020	Cargo	1	6240	70.53 e	6932	43	-	-
37	Kottayam Port & Container Terminal Pvt. Ltd.								
	2019	All	1	300	Rs. 9000/ Container	247	0.07	-	-
	2020	All	1	-	-	-	-	-	-
38	Adventure Resorts & Cruises Pvt. Ltd.								
	2018		4	776	675	-	-	1002	-
	2019	Passenger	3	3973	855	-	-	1295	#####
	2020	Passenger	3	473	545	-	-	1888	893024
39	FACT (Cochin Division)								
	2019		1	13400	+	62931	843.28	-	-
	2020		1	22672	+	70314	1594.16	-	-
40	Pennon Shipping								
	2019	Cargo	1	2050	-	29496	60	-	-
	2020	Cargo	5	16466	-	223404	3679	-	-
41	Heritage River Journeys Pvt. Ltd.								
	2019	Passenger	3	1253	-	-	-	1550	#####
	2020	Passenger	3	1253	-	-	-	1270	#####
42	Spring Professional Services Pvt. Ltd.								
	2019	Cargo	1	11242	187	23320	262	-	-
	2020	-	-	-	-	-	-	-	-
43	JSW Dharamtar Port Pvt. Ltd.*								
	2019	Cargo	52	538454	-	12757000	6869058	-	-
	2020	-	-	-	-	-	-	-	-
44	PNP Maritime Services Pvt. Ltd.								
	2019	Cargo	-	-	-	3915155	-	-	-
	2020	-	-	-	-	-	-	-	-
45	Mags Impex (Shipping) Pvt. Ltd.								
	2019	-	-	-	-	-	-	-	-
	2020	-	-	-	-	-	-	-	-
46	Minescape Mineraaals Pvt. Ltd.								
	2019	-	-	-	-	-	-	-	-
	2020	-	-	-	-	-	-	-	-
47	Nirakar Engineering Services Ltd.								
	2019	Cargo	1	2222	34.68	42827	95	-	-
	2020		2	8334	113.40	162000	1350	-	-
48	Star Cement								
	2019	Cargo	4	-	20.07	2209	-	-	-
	2020	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

Table No. 4.2 (Contd...)

Cargo/Passenger Carried And Freight Collected - By Responding Private Companies/ Public Undertakings
(Year Ending 31st March)

Sl.No.	Company/Undertaking and Year	Type of Vessels	No. of Powered Vessels Employed	Distance Travelled (Kms)	Freight Collected (Rs.in Lakh)	Cargo Carried		Passenger Carried	
						Cargo (in Tonnes)	TKms (in millions)	Passenger (in No.)	PKms
1	2	3	4	5	6	7	8	9	10
49	Brahmaputra Cruises Pvt. Ltd.								
	2019	Pass.	1	5	244.09	-	-	65000	325000
	2020	Pass.	1	6	227.50	-	-	65000	390000
50	Jindal ITF Ltd.								
	2018	Cargo	28	-	465.23	425270	-	-	-
	2019	Cargo	28	-	465.23	425270	-	-	-
	2020	Cargo	28	-	586.73	625270	-	-	-
51	M/S AIE IMPEX**								
	2020	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

Source : Public & Private IWT operators/companies

(b) : data relates to no. of vehicles on L.C.T.

(c);Rs. Nil Company Owned barges hired to third party

(d): Cargo sold on FOB Basis

(e) as per USD rate in Rs. on 31.03.2019 & 31.03.2020

+ : Barge is used for transportation between production division

Note : This table covers only those IWT Operators from whom the data is received by TRW.

@ Barges have not been plying due to mining ban in Goa

* These three covered under the company V.M. Salgaocar & Bros.Pvt.Ltd.

**Added in the Table for the first time

SECTION – 5

PLAN-WISE OUTLAY & EXPENDITURE FOR IWT SECTOR

Table No. 5.1**YEAR WISE FINANCIAL PERFORMANCE FROM F.Y. 2016-17 TO F.Y. 2020-21**

(Rs. In Crore)

Sl. No.	Budget head/ Waterways	Financial Year			Financial Year			Financial Year			Financial Year			Financial Year		
		(2016-17)			(2017-18)			(2018-19)			(2019-20)			(2020-21)		
		B.E	R.E	Exp.	B.E	R.E	Exp.	B.E	R.E	Exp.	B.E	R.E	Exp.	B.E	R.E	Exp.
I	Grants to IWAI															
1	National Waterway 1	50.58	50.58	112.94*	54.77	54.77	54.77	100.57	110.57	228.16	96.66	90.66	155.10	109		
2	National Waterway 3	10.38	10.38	8.33	28.83	29.10	29.09	25	15.00	15.12	51.43	15.21	26.07	31		
3	Others **	189.04	142.04	346.10*	18.4	54.79	85.23	52.18	52.18	55.3	156.47	18.23	31.50	60		
	Sub Total - I (Grants to IWAI)	250.00	203.00	467.37*	102.00	138.66	169.09	177.75	177.75	298.58	304.56	124.10	212.67	200.00	0.00	0.00
4	Jal Marg Vikas Project (JMVP)					75.00	348.53	25	420.54	430.93	230	230.00	461.83	300		
	Sub Total - II (Grants to IWAI including JMVP)	250.00	203.00	467.37*	102.00	213.66	517.62*	202.75	598.29	729.51	534.56	354.10	674.50	500.00	0.00	0.00
II	North Eastern Area															
4	National Waterway 2	75.00	93.30	74.67	93.00	109.15	118.97	120.00	105.00	106.54	80.00	52.50	58.43	40		
5	Central Plan scheme for NER	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6	Proposed NW-16 (Barak) ***	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
7	Development of Indo- Bangladesh protocol for Channel marking, Dredging & Night Navigation etc.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
	Sub total - II (NER)	75.00	93.30	74.67	93.00	109.15	118.97	120.00	105.00	106.54	80.00	52.50	58.43	40.00	0.00	0.00
III	Interest Subsidy to Bank, Loan to IWT Enterprenuer for Inland Vessel Subsidy Scheme	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
IV	Tech Studies & R&D	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
V	Central Plan Scheme/ CSS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
	Grand Total	325.00	296.30	542.04	195.00	322.81	636.59	322.75	703.29	836.05	614.56	406.60	732.93	540.00	0.00	0.00

Source : Inland Waterways Authority

Note:

* The above expenditure during 2016-17 and 2017-18 includes expenditure from the fund raised from extra Budgetary resources (EBRs) for Rs. 340 crore and Rs.660 crore respectively

** The expenditure on Jal Marg Vikas Project (JMVP) included in Grants to IWAI (i-3) upto 2016-17 since separte Budget Head was created in F. Y. 2017-18

*** Budget and expenditure on account of (II.6) for proposed NW-16 (Barak) is included in (II.4) NW-2

Additional Important notes

a. Expenditure for F.Y. 2019-20 also includes incurred from EBR (Bond) fund

b. Budget and Expenditure in r/o Sl. No. II.6 (NW-16 Barak) included under Sl. No. II.4 (NW-2)

SECTION – 6

INLAND WATERWAYS TRANSPORT ACCIDENTS

Table No. 6.1

No. of Accidents, Persons Injured And Died by Drowning (Boat Capsize) in States During 2019.

Sl. No.	State/UT	No. of Cases	Drowning (Boat Capsize)							
			No. of Persons Injured				No. of Persons Died			
			Male	Female	Transgenders	Total	Male	Female	Transgenders	Total
1	2	3	4	5	6	7	8	9	10	11
STATES										
1	Andhra Pradesh	9	0	0	0	0	9	0	0	9
2	Arunachal Pradesh	0	0	0	0	0	0	0	0	0
3	Assam	15	0	0	0	0	11	4	0	15
4	Bihar	19	0	0	0	0	18	8	0	26
5	Chhattisgarh	0	0	0	0	0	0	0	0	0
6	Goa	0	0	0	0	0	0	0	0	0
7	Gujarat	23	0	0	0	0	31	0	0	31
8	Haryana	0	0	0	0	0	0	0	0	0
9	Himachal Pradesh	0	0	0	0	0	0	0	0	0
10	Jammu & Kashmir	0	0	0	0	0	0	0	0	0
11	Jharkhand	0	0	0	0	0	0	0	0	0
12	Karnataka	1	0	0	0	0	1	0	0	1
13	Kerala	10	4	0	0	4	11	0	0	11
14	Madhya Pradesh	20	0	0	0	0	16	4	0	20
15	Maharashtra	6	0	0	0	0	7	1	0	8
16	Manipur	1	0	0	0	0	2	1	0	3
17	Meghalaya	0	0	0	0	0	0	0	0	0
18	Mizoram	0	0	0	0	0	0	0	0	0
19	Nagaland	0	0	0	0	0	0	0	0	0
20	Odisha	2	0	0	0	0	2	8	0	10
21	Punjab	0	0	0	0	0	0	0	0	0
22	Rajasthan	1	0	0	0	0	1	0	0	1
23	Sikkim	0	0	0	0	0	0	0	0	0
24	Tamil Nadu	43	3	0	0	3	40	3	0	43
25	Telangana	1	0	0	0	0	2	0	0	2
26	Tripura	0	0	0	0	0	0	0	0	0
27	Uttar Pradesh	5	0	0	0	0	7	4	0	11
28	Uttarakhand	0	0	0	0	0	0	0	0	0
29	West Bengal	5	0	0	0	0	18	4	0	22
Total(States)		161	7	0	0	7	176	37	0	213
UNION TERRITORIES										
30	A&N Island	0	0	0	0	0	0	0	0	0
31	Chandigarh	0	0	0	0	0	0	0	0	0
32	D&N haveli	0	0	0	0	0	0	0	0	0
33	Daman & Diu	1	0	0	0	0	1	0	0	1
34	Delhi	0	0	0	0	0	0	0	0	0
35	Lakshadweep	0	0	0	0	0	0	0	0	0
36	Pondicherry	0	0	0	0	0	0	0	0	0
Total (UTs)		1	0	0	0	0	1	0	0	1
Total States/UTs		162	7	0	0	7	177	37	0	214

Source : Accidental Deaths & Suicides in India - 2019

National Crime Records Bureau, M/o Home Affairs, Govt. of India

Note (1): The data includes boats plying in all water bodies.

ANNEXURES

Annex- 1**List of 111 National Waterways**

(Government of India has declared 111 waterways as National Waterways through National Waterways Act, 2016 enacted on 12.04.2016).

Sl. No.	National Waterway No.	Length (km)	Details of Waterways	STATES
1	National Waterway 1	1620	Ganga-Bhagirathi-Hooghly River System (Haldia - Allahabad)	Uttar Pradesh, Bihar, Jharkhand & West Bengal
2	National Waterway 2	891	Brahmaputra River (Dhubri - Sadiya)	Assam
3	National Waterway 3	205	West Coast Canal (Kottapuram - Kollam), Champakara and Udyogmandal Canals	Kerala
		170	West Coast Canal (Kottapuram - Kozhikode)	
4	National Waterway 4	50	Kakinada Canal (Kakinada to Rajahmundry)	Andhra Pradesh, Telangana, Chhattisgarh, Karnataka, Tamil Nadu, Pondichery and Maharashtra
		171	Godavari river (Bhadrachalam to Rajahmundry)	
		139	Eluru Canal (Rajahmundry to Vijayawada)	
		157	Krishna river (Wazirabad to Vijayawada)	
		113	Commamur Canal (Vijayawada to Peddaganjam)	
		316	North Buckingham Canal (Peddaganjam to Central Station of Chennai)	
		110	South Buckingham canal (Central Station of Chennai to Marakanam)	
		22	Marakanam to Puducherry through Kaluvelly tank	
		1202	River Godavari (Bhadrachalam - Nashik)	
		636	River Krishna (Wazirabad - Galagali)	
5	National Waterway 5	256	East Coast Canal and Matai river	Odisha and West Bengal

Sl. No.	National Waterway No.	Length (km)	Details of Waterways	STATES
		265	Brahmani-Kharsua-Dhamra rivers	
		67	Mahanadi delta rivers (Consisting of Hansua river, Nunanala, Gobrinala, Kharnasi river and Mahanadi river)	
6	National Waterway 6	68	Aai River	Assam
7	National Waterway 7	90	Ajoy (Ajay) River	West Bengal
8	National Waterway 8	29	Alappuzha- Changanassery Canal	Kerala
9	National Waterway 9	40	Alappuzha- Kottayam – Athirampuzha Canal	Kerala Alternate route: 11.5km
10	National Waterway 10	45	Amba River	Maharashtra
11	National Waterway 11	99	Arunawati - Aran River System	Maharashtra
12	National Waterway 12	5.5	Asi River	Uttar Pradesh
13	National Waterway 13	11	Avm Canal	Kerala & Tamil Nadu
14	National Waterway 14	48	Baitarni River	Odisha
15	National Waterway 15	135	Bakreswar - Mayurakshi River System	West Bengal
16	National Waterway 16	121	Barak River	Assam
17	National Waterway 17	189	Beas River	Himachal Pradesh & Punjab
18	National Waterway 18	69	Beki River	Assam
19	National Waterway 19	67	Betwa River	Uttar Pradesh
20	National Waterway 20	95	Bhavani River	Tamil Nadu
21	National Waterway 21	139	Bheema River	Karnataka & Telangana
22	National Waterway 22	156	Birupa-BadiGenguti-Brahmani River System	Odisha
23	National Waterway 23	56	BudhaBalanga	Odisha
24	National Waterway 24	61	Chambal River	Uttar Pradesh
25	National Waterway 25	33	Chapora River	Goa
26	National Waterway 26	51	Chenab River	Jammu & Kashmir
27	National Waterway 27	17	Cumberjua River	Goa
28	National Waterway 28	45	Dabhol Creek -Vashishti River System	Maharashtra
29	National Waterway 29	132	Damodar River	West Bengal
30	National Waterway 30	109	Dehing River	Assam

Sl. No.	National Waterway No.	Length (km)	Details of Waterways	STATES
31	National Waterway 31	114	Dhansiri / Chathe	Assam
32	National Waterway 32	63	Dikhu River	Assam
33	National Waterway 33	61	Doyans River	Assam
34	National Waterway 34	137	Dvc Canal	West Bengal
35	National Waterway 35	108	Dwarekeswar River	West Bengal
36	National Waterway 36	119	Dwarka River	West Bengal
37	National Waterway 37	296	Gandak River	Bihar & Uttar Pradesh
38	National Waterway 38	62	Gangadhar River	Assam & West Bengal
39	National Waterway 39	49	Ganol River	Meghalaya
40	National Waterway 40	354	Ghaghra River	Bihar & Uttar Pradesh
41	National Waterway 41	112	Ghataprabha River	Karnataka
42	National Waterway 42	514	Gomti River	Uttar Pradesh
43	National Waterway 43	10	Gurupur River	Karnataka
44	National Waterway 44	63	Ichamati River	West Bengal
45	National Waterway 45	650	Indira Gandhi Canal	Punjab , Haryana & Rajashtan
46	National Waterway 46	35	Indus River	Jammu & Kashmir
47	National Waterway 47	131	Jalangi River	West Bengal
48	National Waterway 48	590	Jawai-Luni-Rann Of Kutch River System	Gujarat & Rajasthan
49	National Waterway 49	110	Jhelum River	Jammu & Kashmir
50	National Waterway 50	43	Jinjiram River	Assam & Meghalaya
51	National Waterway 51	23	Kabini River	Karnataka
52	National Waterway 52	53	Kali River	Karnataka
53	National Waterway 53	145	Kalyan-Thane-Mumbai Waterway, Vasai Creek And Ulhas River System	Maharashtra
54	National Waterway 54	86	Karamnasa River	Bihar & Uttar Pradesh
55	National Waterway 55	311	Kaveri - Kollidam River System	Tamil Nadu
56	National Waterway 56	22	Kherkai River	Jharkhand
57	National Waterway 57	50	Kopili River	Assam
58	National Waterway 58	236	Kosi River	Bihar
59	National Waterway 59	19	Kottayam-Vaikom Canal	Kerala
60	National Waterway 60	80	Kumari River	West Bengal

Sl. No.	National Waterway No.	Length (km)	Details of Waterways	STATES
61	National Waterway 61	28	Kynshi River	Meghalaya
62	National Waterway 62	86	Lohit River	Assam & Arunachal Pradesh
63	National Waterway 63	336	Luni River	Rajasthan
64	National Waterway 64	426	Mahanadi River	Odisha
65	National Waterway 65	80	Mahananda River	West Bengal
66	National Waterway 66	247	Mahi River	Gujarat
67	National Waterway 67	94	Malaprabha River	Karnataka
68	National Waterway 68	41	Mandovi River	Goa
69	National Waterway 69	5	Manimutharu River	Tamil Nadu
70	National Waterway 70	245	Manjara River	Maharashtra & Telangana
71	National Waterway 71	27	Mapusa / Moide River	Goa
72	National Waterway 72	59	Nag River	Maharashtra
73	National Waterway 73	226	Narmada River	Maharashtra & Gujarat
74	National Waterway 74	79	Netravathi River	Karnataka
75	National Waterway 75	142	Palar River	Tamil Nadu
76	National Waterway 76	23	Panchagangavali (Panchagangoli) River	Karnataka
77	National Waterway 77	20	Pazhyar River	Tamil Nadu
78	National Waterway 78	262	Penganaga - Wardha River System	Maharashtra & Telangana
79	National Waterway 79	28	Pennar River	Andhra Pradesh
80	National Waterway 80	126	Ponniyar River	Tamil Nadu
81	National Waterway 81	35	Punpun River	Bihar
82	National Waterway 82	58	Puthimari River	Assam
83	National Waterway 83	31	Rajpuri Creek	Maharashtra
84	National Waterway 84	44	Ravi River	Jammu & Kashmir, Himachal Pradesh & Punjab
85	National Waterway 85	31	Revadanda Creek - Kundalika River System	Maharashtra
86	National Waterway 86	72	Rupnarayan River	West Bengal
87	National Waterway 87	210	Sabarmati River	Gujarat
88	National Waterway 88	14	Sal River	Goa
89	National Waterway 89	45	Savitri River (Bankot Creek)	Maharashtra
90	National Waterway 90	29	Sharavati River	Karnataka
91	National Waterway 91	52	Shastri River - Jaigad Creek System	Maharashtra

Sl. No.	National Waterway No.	Length (km)	Details of Waterways	STATES
92	National Waterway 92	26	Silabati River	West Bengal
93	National Waterway 93	63	Simsang River	Meghalaya
94	National Waterway 94	141	Sone River	Bihar
95	National Waterway 95	106	Subansiri River	Assam
96	National Waterway 96	311	Subarnrekha River	Jharkhand, West Bengal & Odisha
97	National Waterway 97	172	Sunderbans Waterway	West Bengal
		56	Bidya River	West Bengal
		15	ChhotaKalagachi (ChhotoKalgachi) River	West Bengal
		7	Gomar River	West Bengal
		16	Haribhanga River	West Bengal
		37	Hogla (Hogal)-Pathankhali River	West Bengal
		9	Kalindi (Kalandi) River	West Bengal
		22	Katakhali River	West Bengal
		99	Matla River	West Bengal
		28	Muri Ganga (Baratala) River	West Bengal
		53	Raimangal River	West Bengal
		14	Sahibkhali (Sahebkhali) River	West Bengal
		37	Saptamukhi River	West Bengal
		64	Thakurran River	West Bengal
98	National Waterway 98	377	Sutlej River	Himachal Pradesh & Punjab
99	National Waterway 99	62	Tamaraparani River	Tamil Nadu
100	National Waterway 100	436	Tapi River	Maharashtra & Gujarat
101	National Waterway 101	42	Tizu - Zungki Rivers	Nagaland
102	National Waterway 102	87	Tlwan (Dhaleswari River)	Assam & Mizoram
103	National Waterway 103	73	Tons River	Uttar Pradesh
104	National Waterway 104	232	Tungabhadra River	Karnataka, Telangana & Andhra Pradesh
105	National Waterway 105	15	Udayavara River	Karnataka
106	National Waterway 106	20	Umngot (Dawki) River	Meghalaya
107	National Waterway 107	46	Vaigai River	Tamil Nadu
108	National Waterway 108	53	Varuna River	Uttar Pradesh
109	National Waterway 109	166	Wainganga - Pranahita River System	Maharashtra & Telangana

Sl. No.	National Waterway No.	Length (km)	Details of Waterways	STATES
110	National Waterway 110	1080	Yamuna River	Delhi, Haryana & Uttar Pradesh
111	National Waterway 111	50	Zuari River	Goa
		20162.5		

INFRASTRUCTURE FACILITIES ON NATIONAL WATERWAYS 1, 2 & 3

1. National Waterway – 1: River Ganga-Bhagirathi-Hooghly river system from Haldia to Allahabad, 1620 km:

1. Varanasi MMT

- a. Type of Jetty: Fixed RCC Jetty, 200m*35m
- b. Usage: All types of Cargo & Passenger vessels
- c. Managed by: IWAI, Process for O&M of the terminal by a private operator is in progress
- d. Commodities: Cement, Heavy Industries, Agriculture and horticulture products, Containers, ODC etc.
- e. LAD Range: Varanasi to Saidpur stretch (64 km), 0.8m to 2.2m
- f. Facilities: i. Open Storage is available, Covered storage space is proposed in 2nd Phase. ii. Weighbridge proposed in 2nd phase. iii. Dedicated Truck Parking space proposed in 2nd phase.
- g. Equipment: Two Mobile Harbour Cranes of rated capacity 50 MT each, suitable for handling both bulk and container cargo
- h. Labour & Manpower: 24*7 Security available. For manual handling of cargo, labour can be arranged by the operator.
- i. Access road/ rail connectivity: Paved road (dimension: 700m*7.5m)
- j. Distance from the nearest National/ State highway: NH-02 (< 2 km), NH-07 (0.7 km)
- k. Customs notification status: Not notified

2. Assi Ghat, Varanasi

- a. Type of Jetty: Floating Pontoon
- b. Usage: Passenger vessels
- c. Managed by: IWAI
- d. LAD Range: Varanasi to Saidpur stretch (64 km), 0.8m to 2.2m
- e. Labour & Manpower: Security available
- f. Customs notification status: Not notified

3. Rajghat, Varanasi

- a. Type of Jetty: Floating Pontoon
- b. Usage: Passenger vessels
- c. Managed by: IWAI
- d. LAD Range: Varanasi to Saidpur stretch (64 km), 0.8m to 2.2m
- e. Labour & Manpower: Security available
- f. Customs notification status: Not notified

4. Gaighat, Patna

- a. Type of Jetty: Fixed RCC Jetties, 2 nos, High Level Jetty - (70m*20m), Low Level Jetty - (46.6 m*15m)
- b. Usage: All types of Cargo & Passenger vessels including Ro-Ro service
- c. Managed by: IWAI, Process for O&M of the terminal by a private operator is in progress
- d. LAD Range: i. Patna to Mehnar D/S stretch (31 km), 1.4m to 2.5m ii. Patna to Doriganj U/S stretch (45 km), 1.2m to 2.5m

- e. Commodities: Fly Ash, Cement, Stone Aggregates, Containers, Agriculture & Horticulture Products, ODC etc.
- f. Storage facility: Transit shed (45m*25m)
- g. Equipment: One rubber tyre mobile crane of capacity 70 MT and Two 20 MT rubber tyre mobile crane, suitable for handling both bulk and container cargo
- h. Labour & Manpower: 24*7 Security available. For manual handling of cargo, labour can be arranged by the operator.
- i. Access road/ rail connectivity: Paved road (dimension: 334 m*7m)
- j. Distance from the nearest National/ State highway: NH-19 (< 1 km), NH-31 & 82 (<51 km)
- k. Customs notification status: Not notified

5. Munger

- a. Type of Jetty: Floating pontoon
- b. Usage: Passenger vessels & Logistics support
- c. Managed by: IWAI
- d. LAD Range: i. Munger to Sultanganj D/S stretch (47 km), 2m to 3m ii. Munger to Mahendrapur U/S stretch (27 km), 1.6m to 3m
- e. Labour & Manpower: Security available
- f. Customs notification status: Not notified

6. Bhagalpur

- a. Type of Jetty: Floating pontoon
- b. Usage: Passenger vessels & Logistics support
- c. Managed by: IWAI
- d. LAD range: i. Bhagalpur to Kahalgaon D/S stretch (25 km), 2.1m to 3m ii. Bhagalpur to Sultanganj U/S stretch (31 km), 1.8m to 3m
- e. Labour & Manpower: Security available
- f. Customs notification status: Not notified

7. Bateshwarsthan, Bihar

- a. Type of Jetty: Floating pontoon
- b. Usage: Passenger vessels & Logistics support
- c. Managed by: IWAI
- d. LAD Range: Karagola to Kahalgaon stretch (30 km), 2.1m to 3m
- e. Labour & Manpower: Security available
- f. Nearest Town: Bhagalpur, Sahibganj, Banka, Godda
- g. Customs notification status: Not notified

8. Samdaghat, Sahibganj

- a. Type of Jetty: Floating pontoon
- b. Usage: Passenger vessels including Ro-Ro service
- c. Managed by: IWAI
- d. LAD Range: Rajmahal to Manihari stretch (50 km), 2.5m to 3m
- e. Labour & Manpower: Security available
- f. Customs notification status: Not notified

9. Sahibganj

- a. Type of Jetty: Floating pontoon
- b. Usage: Passenger vessels & Logistics support
- c. Managed by: IWAI
- d. LAD Range: Rajmahal to Manihari stretch (50 km), 2.5m to 3m
- e. Labour & Manpower: Security available
- f. Customs notification status: Not notified

10. Sahibganj MMT

- a. Type of Jetty: Fixed RCC Jetty, 270m*25m
- b. Usage: All types of Cargo & Passenger vessels
- c. Managed by: IWAI, Process for O&M of the terminal by a private operator is in progress
- d. LAD Range: Rajmahal to Manihari stretch (50 km), 2.5m to 3m
- e. Commodities: Stone aggregates, Coal, Fly Ash, Silica, Sand etc.
- f. Facilities: i. Storage shed (132 m X 30 m), Open storage space: 50,000 sqm ii. Weighbridge available (2 nos.): 60 tonne capacity each iii. Dedicated Truck Parking space available (10,000 sq. m.)
- g. Equipment: i. One Mobile Harbour crane with 50 MT rated capacity, suitable for handling both bulk and container cargo ii. Front end loaders, 8 Nos. iii. Conveyor system with fixed hopper (capacity 1,200 TPH) iv. Barge Loader (capacity 1,200 TPH)
- h. Labour & Manpower: 24*7 Security available. For manual handling of cargo, labour can be arranged by the operator.
- i. Access road/ rail connectivity: Paved road (dimension: 1,095m*20m)
- j. Distance from the nearest National/ State highway: NH-33 (< 2 km)
- k. Customs notification status: Not notified

11. Rajmahal, Jharkhand

- a. Type of Jetty: Floating pontoon
- b. Usage: Passenger vessels including Ro-Ro Services
- c. Managed by: IWAI
- d. LAD Range: i. Rajmahal to Manihari U/S stretch (50 km), 2.5m to 3m ii. Rajmahal to D/S Farakka Lock Gate stretch (39 km), 2.8m to 3m
- e. Labour & Manpower: Security available
- f. Nearest Town: Sahibganj, Farakka, Malda, Pakur
- g. Customs notification status: Not notified

12. U/S Terminal Ghat, Farakka

- a. Type of Jetty: Floating pontoon
- b. Usage: Bulk cargo and Passenger vessels
- c. Managed by: IWAI
- d. LAD Range: Rajmahal to D/S Farakka Lock Gate stretch (39 km), 2.8m to 3m
- e. Commodities: Stone Aggregates, Silica, Sand, Coal
- f. Facilities: Pilot shelter
- g. Equipment: Submersible pump for vessels
- h. Labour & Manpower: Security available
- i. Customs notification status: Notified

13. D/S Terminal Ghat, Farakka

- a. Type of Jetty: Fixed RCC Jetty
- b. Usage: Bulk Cargo and Passenger vessels
- c. Managed by: IWAI
- d. LAD Range: i. Rajmahal to D/S Farakka Lock Gate D/S stretch (39 km), 2.8m to 3m ii. Farakka JITF Jetty to D/S Farakka Lock Gate U/S stretch (3 km), 1.5m to 3m
- e. Commodities: Stone Aggregates, Silica, Sand, Coal
- f. Equipment: Submersible pump for vessels
- g. Labour & Manpower: Security available h. Customs notification status: Notified

14. Hazarduari Ghat, Berhampore

- a. Type of Jetty: Floating pontoon
- b. Usage: Passenger vessels & Logistics support
- c. Managed by: IWAI
- d. LAD Range: i. Berhampore to Chowrigacha D/S stretch (21 km), 3m ii. Berhampore to Mohammadpur U/S stretch (28 km), 2.7m to 3m
- e. Labour & Manpower: Security available
- f. Customs notification status: Not notified

15. Matiari, West Bengal

- a. Type of Jetty: Floating pontoon
- b. Usage: Passenger vessels & Logistics support
- c. Managed by: IWAI
- d. LAD Range: Patuli to Katwa stretch (23 km), 2.7m to 3m
- e. Labour & Manpower: Security available
- f. Nearest Town: Katwa
- g. Customs notification status: Not notified

16. Kalna, West Bengal

- a. Type of Jetty: Floating Pontoon
- b. Usage: Passenger vessels & Logistics support
- c. Managed by: IWAI
- d. LAD Range: i. Kalna to Balagarh D/S stretch (23 km), 3m ii. Kalna to Samudragarh U/S stretch (18 km), 3m
- e. Labour & Manpower: Security available
- f. Customs notification status: Not notified

17. Shantipur

- a. Type of Jetty: Floating Pontoon
- b. Usage: Passenger vessels & Logistics support
- c. Managed by: IWAI
- d. LAD Range: Kalna to Balagarh D/S stretch (23 km), 3m
- e. Labour & Manpower: Security available
- f. Customs notification status: Not notified

18. BTPS, Tribeni

- a. Type of Jetty: RCC Jetty
- b. Usage: Bulk Cargo & Passenger vessels
- c. Managed by: IWAI d. LAD range: i. Tribeni to Balagarh U/S stretch (28 km), 3m ii. Tribeni to Sagar D/S stretch (193 km), 3m
- e. Equipment: Two nos. Diesel Compressor
- f. Labour & Manpower: Security available
- g. Customs notification status: Notified

19. Botanical Garden, Kolkata

- a. Type of Jetty: Floating Pontoon
- b. Usage: Passenger vessels & Logistics support
- c. Managed by: IWAI
- d. LAD Range: 3m
- e. Labour & Manpower: Security available
- f. Customs notification status: Not notified

20. BISN/GR Jetty 1, Kolkata

- a. Type of Jetty: Floating Pontoon
- b. Usage: Bulk Cargo vessels incl. Ro-Ro service
- c. Managed by: M/s SAPL
- d. LAD Range: 3m
- e. Commodities: Fly Ash, Coal
- f. Equipment: One Diesel Compressor
- g. Labour & Manpower: 24*7 Security available
- h. Customs notification status: Notified

21. GR Jetty 2, Kolkata

- a. Type of Jetty: Fixed RCC Jetty, 70m*20m
- b. Usage: All types of Cargo vessels
- c. Managed by: M/s SAPL
- d. LAD Range: 3m
- e. Commodities: Fly Ash, Coal, Cement, Steel materials, Stone aggregates, Food grains, Containers, etc.
- f. Facilities: i. Covered storage space, 1,186 sqm ii. Dedicated Truck Parking space available
- g. Equipment: i. 1 no. Crane 45-120-ton capacity, ii. 2 nos. Electric Compressor, iii. Submersible Pump
- h. Labour & Manpower: 24*7 Security available. For manual handling of cargo, labour can be arranged by the operator.
- i. Access road/ rail connectivity: Paved road
- j. Distance from the nearest National/ State highway: NH-117 (< 5 km)
- k. Customs notification status: Notified

22. Haldia Old Fly Ash Jetty (Jetty-1)

- a. Type of Jetty: Floating Pontoon
- b. Usage: Bulk Cargo vessels

- c. Managed by: IWAI
- d. LAD Range: 3m
- e. Commodities: Fly Ash
- f. Storage facility: A Transit Shed Facility (100m X 30m)
- g. Labour & Manpower: Security available
- h. Customs notification status: Notified

23. Haldia Old Terminal (Jetty-2)

- a. Type of Jetty: Floating Pontoon
- b. Usage: Bulk Cargo vessels
- c. Managed by: IWAI
- d. LAD Range: 3m
- e. Commodities: Fly Ash
- f. Labour & Manpower: Security available
- g. Customs notification status: Notified

24. Haldia Old Terminal (Jetty-3)

- a. Type of Jetty: Floating Pontoon
- b. Usage: Bulk Cargo vessels
- c. Managed by: IWAI
- d. LAD Range: 3m
- e. Commodities: Fly Ash
- f. Labour & Manpower: Security available
- g. Customs notification status: Notified

2. INFRASTRUCTURE FACILITIES ON NATIONAL WATERWAY -2

National Waterway – 2: River Brahmaputra from Dhubri to Sadiya, 891 km:

1. Dhubri

- a. Type of Jetty: Fixed RCC jetty, 186m*15.6m
- b. Usage: Bulk Cargo and Passenger vessels including Ro-Ro service
- c. Managed by: IWAI, Process for O&M of the terminal by a private operator is in progress
- d. LAD Range: i. Bangladesh Border to Dhubri U/S stretch (32 km), 2.3m to 2.5m ii. Dhubri to Tulsibari U/S stretch (30 km), 2.3m to 2.5m
- e. Commodities: Coal, Cement, Stone Aggregates, Food grains, Tea, Jute etc.
- f. Facilities: i. 2 nos. Transit Sheds (25 m x15 m each), ii. Open storage area: 553.90 sq. m. iii. Weighbridge available, one 60 MT capacity iv. Dedicated truck parking space available
- g. Equipment: i. One Shore crane - 20 MT rated capacity ii. Crane not suitable to handle container cargo
- h. Labour & Manpower: 24*7 Security available. For manual handling of cargo, labour can be arranged by the operator.
- i. Access road/ rail connectivity: Paved road
- j. Distance from the nearest National/ State highway: NH-17 (< 2 km)
- k. Customs notification status: Notified

2. Jogighopa

- a. Type of Jetty: Floating Pontoon

- b. Usage: Bulk Cargo and Passenger vessels
- c. Managed by: IWAI
- d. LAD Range: i. Chandradinga to Jogighopa U/S stretch (24 km), 2.3m to 2.5m ii. Jogighopa to Bagbor U/S stretch (37 km), 2.4m to 2.5m
- e. Commodities: Stone Aggregates, Coal, Cement, Food Grains, Bamboo
- f. Storage facility: Ample open storage space
- g. Labour & Manpower: 24*7 Security available. For manual handling of cargo, labour and equipment can be arranged by the operator.
- h. Access road/ rail connectivity: Paved road
- i. Distance from the nearest National/ State highway: NH-17 (< 2 km)
- j. Customs notification status: Notified

3. Pandu

- a. Type of Jetty: Fixed RCC Jetties, 2 nos, High Level Jetty - (50m*20m), Low Level Jetty - (50m*20m)
- b. Usage: All types of Bulk Cargo and Passenger vessels including Ro-Ro service
- c. Managed by: IWAI, Process for O&M of the terminal by a private operator is in progress
- d. LAD Range: i. Vijaynagar to Pandu U/S stretch (22 km), 2.5m ii. Pandu to Ganesh Pahar U/S stretch (38 km), 2m to 2.5m
- e. Commodities: Coal, Cement, Stone Aggregates, Food grains, Tea, POL, Jute, Fertilizer, Salt etc.
- f. Facilities: i. 2 nos. Transit Sheds (75 m x 21 m each), ii. Open storage area: 8,273 sq. m. iii. Weighbridge available, 1 no., 100 MT capacity iv. Dedicated truck parking space available
- g. Equipment: i. Hydraulic shore crane (01 nos.) – 75 ton rated capacity ii. Hydraulic shore crane (01 nos.) – 20 ton rated capacity iii. Both cranes are only suitable for handling bulk cargo
- h. Labour & Manpower: 24*7 Security available. For manual handling of cargo, labour can be arranged by the operator.
- i. Access road/ rail connectivity: i. Paved road ii. Broad Gauge (BG) siding
- j. Distance from the nearest National/ State highway: NH-27 (old NH-31) (< 3 km)
- k. Customs notification status: Notified

4.Silghat

- a. Type of Jetty: Floating Pontoon
- b. Usage: Bulk Cargo and Passenger vessels
- c. Managed by: IWAI
- d. LAD Range: Tezpur to Biswanath stretch (47 km), 2.3m to 2.5m
- e. Commodities: Tea, Food Grains, Cement, POL, Chemicals, Timber
- f. Labour & Manpower: 24*7 Security available. For manual handling of cargo, labour and equipment can be arranged by the operator.
- g. Access road/ rail connectivity: Paved road
- h. Distance from the nearest National/ State highway: NH-715 (16 km)
- i. Customs notification status: Notified

5.Biswanathghat

- a. Type of Jetty: Floating Pontoon
- b. Usage: Passenger vessels & Logistics Support

- c. Managed by: IWAI
- d. LAD Range: i. Tezpur to Biswanath U/S stretch (47 km), 2.3m to 2.5m ii. Biswanath to Bargang River (U/S) stretch (22 km), 2.1m to 2.5m
- e. Labour & Manpower: Security available
- f. Customs notification status: Not notified

6. Neamati

- a. Type of Jetty: Floating Pontoon
- b. Usage: Bulk Cargo & Passenger vessels
- c. Managed by: IWAI
- d. LAD Range: i. Pahumara to Neamati U/S stretch (22 km), 2.3m to 2.5m ii. Neamati to Teliadanga U/S stretch (31 km), 2.2m to 2.5m
- e. Commodities: Tea, Cement, Food Grains
- f. Labour & Manpower: Security available
- g. Nearest town: Jorhat
- h. Customs notification status: Not notified

7. Bogibeel

- a. Type of Jetty: Floating Pontoon
- b. Usage: Passenger vessels & Logistics Support
- c. Managed by: IWAI
- d. LAD Range: Kathalguri to Dibrugarh stretch (32 km), 2m
- e. Labour & Manpower: Security available
- f. Nearest town: Dibrugarh
- g. Customs notification status: Not notified

8. Oriamghat

- a. Type of Jetty: Floating Pontoon
- b. Usage: Passenger vessels & Logistics Support
- c. Managed by: IWAI
- d. LAD Range: Bahir Jonai to Oriamghat stretch (13 km), 1.2m to 1.5m
- e. Labour & Manpower: Security available
- f. Nearest town: Sadia, Tinsukia
- g. Customs notification status: Not notified

3. INFRASTRUCTURE FACILITIES ON NATIONAL WATERWAY NO.3

1. Aluva

- a. Type of Jetty: Fixed RCC jetty, 30m*7m
- b. Usage: Bulk Cargo and Passenger vessels
- c. Managed by: IWAI
- d. LAD Range: 1m to 2m
- e. Commodities: Fertilizers, Chemicals, Minerals, Zinc
- f. Storage facility: i. Covered storage - 300 sqm ii. Open Storage 4000 sqm

- g. Equipment: i. One mobile hydraulic crane of capacity 18 MT, suitable to handle container cargo ii. One forklift of capacity 3 MT
- h. Labour & Manpower: 24*7 Security available. For manual handling of cargo, labour can be arranged by the operator.
- i. Access road/ rail connectivity: Bituminous road
- j. Distance from the nearest National/ State highway: Old NH-17 (600m)
- k. Nearest town: Kochi, Ernakulam, Kakkanad l. Customs notification status: Not Notified

2.CSEZ (Kakkanad)

- a. Type of Jetty: Temporary berthing jetty
- b. Managed by: IWAI
- c. LAD Range: 1m to 2m
- d. Commodities: Fertilizers, POL
- e. Storage facility: Nil
- f. Equipment: Nil
- g. Labour & Manpower: Security available. For manual handling of cargo, labour can be arranged by the operator.

3. Maradu

- a. Type of Jetty: Fixed RCC jetty, 30m*7m
- b. Usage: Bulk Cargo and Passenger vessels
- c. Managed by: IWAI
- d. LAD Range: 1m to 2m
- e. Commodities: Fertilizers, POL
- f. Storage facility: i. Covered storage - 300 sqm ii. Open Storage 2000 sqm
- g. Equipment: i. 2 nos. mobile hydraulic crane of capacity 18 MT, suitable to handle container cargo ii. One forklift of capacity 3 MT
- h. Labour & Manpower: 24*7 Security available. For manual handling of cargo, labour can be arranged by the operator.
- i. Access road/ rail connectivity: Paved road
- j. Distance from the nearest National/ State highway: NH-66 (400m)
- k. Nearest town: Kochi, Ernakulam
- l. Customs notification status: Not Notified

4.Vaikkom

- a. Type of Jetty: Fixed RCC jetty, 30m*7m
- b. Usage: Bulk Cargo and Passenger vessels
- c. Managed by: IWAI d. LAD Range: 1m to 2m
- e. Commodities: Coir
- f. Storage facility: i. Covered storage - 300 sqm ii. Open Storage 800 sqm
- g. Equipment: i. One mobile hydraulic crane of capacity 18 MT, suitable to handle container cargo ii. One forklift of capacity 3 MT
- h. Labour & Manpower: 24*7 Security available. For manual handling of cargo, labour can be arranged by the operator.
- i. Access road/ rail connectivity: Bituminous road
- j. Distance from the nearest National/ State highway: SH-15 (1.8 km)

k. Nearest town: Cherthala l. Customs notification status: Not Notified

5.Thannermukkom

- a. Type of Jetty: Fixed RCC jetty, 30m*7m
- b. Usage: Bulk Cargo and Passenger vessels
- c. Managed by: IWAI
- d. LAD Range: 1m to 2m
- e. Commodities: Coir
- f. Storage facility: i. Covered storage - 300 sqm ii. Open Storage 2000 sqm
- g. Equipment: i. One mobile hydraulic crane of capacity 18 MT, suitable to handle container cargo ii. One forklift of capacity 3 MT
- h. Labour & Manpower: 24*7 Security available. For manual handling of cargo, labour can be arranged by the operator.
- i. Access road/ rail connectivity: Bituminous road
- j. Distance from the nearest National/ State highway: SH-40 (200m)
- k. Nearest town: Cherthala
- l. Customs notification status: Not Notified

6.Alappuzha

- a. Type of Jetty: Fixed RCC jetty, 30m*7m
- b. Usage: Bulk Cargo and Passenger vessels
- c. Managed by: IWAI
- d. LAD Range: 1m to 2m
- e. Commodities: Coir, Rubber f. Storage facility: i. Covered storage - 300 sqm, ii. Open Storage 2000 sqm
- g. Equipment: i. One mobile hydraulic crane of capacity 18 MT, suitable to handle container cargo ii. One forklift of capacity 3 MT
- h. Labour & Manpower: 24*7 Security available. For manual handling of cargo, labour can be arranged by the operator.
- i. Access road/ rail connectivity: Bituminous road
- j. Distance from the nearest National/ State highway: NH-66 (3 km)
- k. Customs notification status: Notified

7. Thrikunnappuzha

- a. Type of Jetty: Fixed RCC jetty, 30m*7m
- b. Usage: Bulk Cargo and Passenger vessels
- c. Managed by: IWAI
- d. LAD Range: 1m to 2m
- e. Commodities: Coir
- f. Storage facility: i. Covered storage - 300 sqm ii. Open Storage 800 sqm
- g. Equipment: i. One mobile hydraulic crane of capacity 18 MT, suitable to handle container cargo ii. One forklift of capacity 3 MT
- h. Labour & Manpower: 24*7 Security available. For manual handling of cargo, labour can be arranged by the operator.
- i. Access road/ rail connectivity: Bituminous road
- j. Distance from the nearest National/ State highway: NH-66 (5.80 km)

k. Nearest town: Haripad l. Customs notification status: Not Notified

8. Kayamkulam

- a. Type of Jetty: Fixed RCC jetty, 30m*7m
- b. Usage: Bulk Cargo and Passenger vessels
- c. Managed by: IWAI
- d. LAD Range: 1m to 2m
- e. Commodities: Minerals
- f. Storage facility: i. Covered storage - 300 sqm ii. Open Storage 2000 sqm
- g. Equipment: i. One mobile hydraulic crane of capacity 18 MT, suitable to handle container cargo ii. One forklift of capacity 3 MT
- h. Labour & Manpower: 24*7 Security available. For manual handling of cargo, labour can be arranged by the operator.
- i. Access road/ rail connectivity: Bituminous road
- j. Distance from the nearest National/ State highway: NH-66 (6.5km)
- k. Customs notification status: Not Notified

9. Kollam

- a. Type of Jetty: Fixed RCC jetty, 30m*7m
- b. Usage: Bulk Cargo and Passenger vessels
- c. Managed by: IWAI
- d. LAD Range: 1m to 2m
- e. Commodities: Minerals
- f. Storage facility: i. Covered storage - 300 sqm ii. Open Storage 2000 sqm
- g. Equipment: i. One forklift of capacity 3 MT
- h. Labour & Manpower: 24*7 Security available. For manual handling of cargo, labour can be arranged by the operator.
- i. Access road/ rail connectivity: Bituminous road
- j. Distance from the nearest National/ State highway: NH-66 (2 km)
- k. Customs notification status: Not Notified

10.Chavara

- a. Type of Jetty: Land only
- b. Managed by: IWAI
- c. LAD Range: 1m to 2m

11. Bolgatty Island

- a. Type of Jetty: Ro-Ro/Lo-Lo Landing Point (50m*17m)
- b. Usage: Ro-Ro Service
- c. Managed by: IWAI
- d. LAD Range: 1m to 2m
- e. Facilities: Dedicated truck parking space
- f. Access road/ rail connectivity: Bituminous road
- g. Distance from the nearest National/ State highway: Container Road, Ernakulam (200 m)
- h. Customs notification status: Not Notified

12. Willingdon Island

- a. Type of Jetty: Ro-Ro/Lo-Lo Landing Point (50m*12m)
- b. Usage: Ro-Ro Service
- c. Managed by: IWAI
- d. LAD Range: 1m to 2m
- e. Access road/ rail connectivity: Bituminous road
- f. Distance from the nearest National/ State highway: Old NH-47 (4 km)
- g. Customs notification status: Not Notified

APPENDIX

ABBREVIATION

...	Not Available
-	Nil
IWT	Inland Water Transport
Kms.	Kilometers
M.T.	Metric Tonnes
CIWTC	Central Inland Water Transport Corporation
IWAI	Inland Waterways Authority of India
KSINC	Kerala Shipping & Inland Navigation Corporation
H.P.	Horse Power
H.F.	Harbor Freight
POL	Petroleum Oil Lubricant
ODC	Over Dimensional Cargo
LAG	Liquified Amonnia Gas
FO	Furnace Oil
LDO	Light Diesel Oil
GC/G Cargo	General Cargo
Neg/N	Negligible
FBP	Farakka Barage Project
IOC	Indian Oil Corporation
HSD	High Speed Diesel
LCT	Loaded Carriage Tug
FACT	Fertilisers and Chemicals Travancore Ltd.