

# **STATISTICS OF INLAND WATER TRANSPORT 2020-21**



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

# **STATISTICS OF INLAND WATER TRANSPORT 2020-21**



सत्यमेव जयते

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**Government of India  
Ministry of Ports, Shipping & Waterways  
Transport Research Wing  
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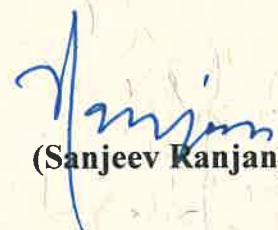
## PREFACE

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 2020-21**” is the **28<sup>th</sup>** 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.

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.

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(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) for the development of Inland Water Transport. An Inland Vessel Building Subsidy Scheme was also in place since April, 2002 upto 31<sup>st</sup> 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 27<sup>th</sup> 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 19<sup>th</sup> 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 complementarity 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 2020-21 are given in Table 1.1 (Section 1). The details of infrastructure facilities available on state waterways as on 31.03.2021 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 Assam with 7657.3 km followed by Uttar Pradesh with 6444 km & West Bengal with 4741 km. 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 96.8% in the State of West Bengal; by contrast, in case of U.P. the ratio of navigable length to total length is a mere 6.6%. Other States with good inland water transport

prospects are Goa, Maharashtra and Kerala where waterways navigable length is 90.8%, 73.1% and 63.9% respectively of the total length of rivers/canals/lakes reported by these states. Total length of rivers in these 13 reporting states is 34195.20 Km of which 43.4% is navigable length.

<b>Table 1 : Total and Navigable Length of Waterways in different States –2020-21 (In kms)</b>				
<b>S. No.</b>	<b>State</b>	<b>Total Length of the Rivers/ Canals/ Lakes in State (Km.)</b>	<b>Navigable Length (Km.)</b>	<b>Percentage of Navigable Length to Total Length</b>
1	Andhra Pradesh	3762.73	1160.73	30.85
2	Assam	7657.37	2024	26.43
3	Bihar	1011	1011	100
4	Goa	273	248	90.84
5	Gujarat *	-	-	-
6	Karnataka	2902	1215	41.87
7	Kerala	2920.62	1866.92	63.92
8	Maharashtra	631	461.50	73.14
9	Odisha	2425	1555	64.12
10	Nagaland	276	276	100.00
11	Mizoram	940.48	N.A	0.00
12	Tamil Nadu	211.1	14	6.63
13	Uttar Pradesh **	6444	425	6.60
14	West Bengal	4741	4593	96.88
	<b>Total</b>	<b>34195.30</b>	<b>14850.15</b>	<b>43.43</b>
<b>Source :</b> State Governments <b>Note :</b> * Data not reported for the year <b>2020-21</b> ** 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) and NWs in the State of Goa, Maharashtra, Gujarat & Sunderbans was 881.4 Lakh tonnes in 2020-21 as against 685.13 lakhs tonnes in 2019-20, reflecting an increase of 28.6 %. In terms of tonnage, Goa, Maharashtra, Gujarat & Sunderbans accounted for 9.7 %, 37.4 %, 29.1 and 4.4 % respectively of the total cargo volume in 2020-21.

In terms of tonne km (movement of one tonne of cargo over a distance of one km) there was an increase by 0.6 % in 2020-21 over 2019-20 and cargo carried on Indian Waterways is 50.70 Kms (Tonne kms/ Cargo moved). Goa, Maharashtra, Gujarat & Sundarbans waterways, though accounted 80.6 % of the total cargo movement on inland waterways across India, in terms of tonne

Kilometer their share was 46.8 % only. In case of Gujarat and Maharashtra, high volume of cargo movement was carried over relatively short average distances of about 17.16 Kms and 17.28 Kms respectively leading to their intensive use. However, in the three National Waterways, although the volume of cargo traffic was relatively much small (11.6%), the average distance is 230.00 Kms. In case of National Waterway I (Ganga- Bhagirathi-Hooghly) the average distance over which cargo moved was relatively much longer at 253.19 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 14.62 Kms and 29.26 Kms respectively in 2020-21.

<b>Table 2: Cargo Movement on Waterways</b>							
<b>S. No.</b>	<b>Details of Waterway</b>	<b>Cargo Moved ( lakh tonnes)</b>			<b>Tonne Kms (in lakh )</b>		
		<b>2018-19</b>	<b>2019-20</b>	<b>2020-21</b>	<b>2018-19</b>	<b>2019-20</b>	<b>2020-21</b>
<b>1</b>	<b>National Waterway No. I</b>	73.49 (10.9)	91.12 (13.3)	92.06 (10.4)	29003.84 (61.2)	30544 (68.8)	23309.40 (52.2)
<b>2</b>	<b>National Waterway No. II</b>	28.72 (4.3)	3.93 (0.6)	3.07 (0.4)	561.00 (1.2)	79.34 (0.2)	44.9 (0.1)
<b>3</b>	<b>National Waterway No. III</b>	4.20 (0.6)	5.46 (0.8)	7.34 (0.8)	88.30 (0.2)	101.97 (0.2)	214.8 (0.5)
<b>4</b>	<b>National Waterway No. IV</b>	4.50 (0.7)	0.82 (0.1)	68.32 (7.8)	10.00 (0.02)	-	189.90 (0.4)
	<b>Sub Total NWs</b>	110.91 (16.5)	101.33 (14.8)	170.79 (19.4)	29663.14 (62.6)	30725.31 (69.2)	23759 (53.2)
<b>5</b>	<b>Goa Waterways</b>	37.72 (5.6)	29.52 (4.3)	85.32 (9.7)	1886.4 (4.0)	1476.05 (3.3)	4265.93 (9.6)
<b>6</b>	<b>Maharashtra Waterways</b>	203.98 (30.3)	209.52 (30.6)	329.56 (37.4)	5972 (12.6)	1571 (3.5)	5697.37 (12.8)
<b>7</b>	<b>Gujarat Waterways</b>	288.20 (42.8)	310.15 (45.2)	257.12 (29.1)	4300 (9.0)	4652 (10.5)	4413 (9.9)
<b>8</b>	<b>Sunderban Waterways</b>	32.3 (4.8)	34.61 (5.1)	38.61 (4.4)	5600 (11.8)	5988 (13.5)	6558.70 (14.7)
	<b>Grand Total</b>	<b>673.11</b>	<b>685.13</b>	<b>881.40</b>	<b>47421.54</b>	<b>44412.36</b>	<b>44693.7</b>
<p><b>Source :</b> (i) Inland Waterways Authority of India for National Waterways , Gujarat Waterways &amp; 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.</p> <p><b>Note :</b>  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 &amp; NW-II through Bangladesh  2. Figure within brackets indicates percentage to the total.</p>							

## 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 26<sup>th</sup> March 2016 which came into force w.e.f. 12<sup>th</sup> 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**

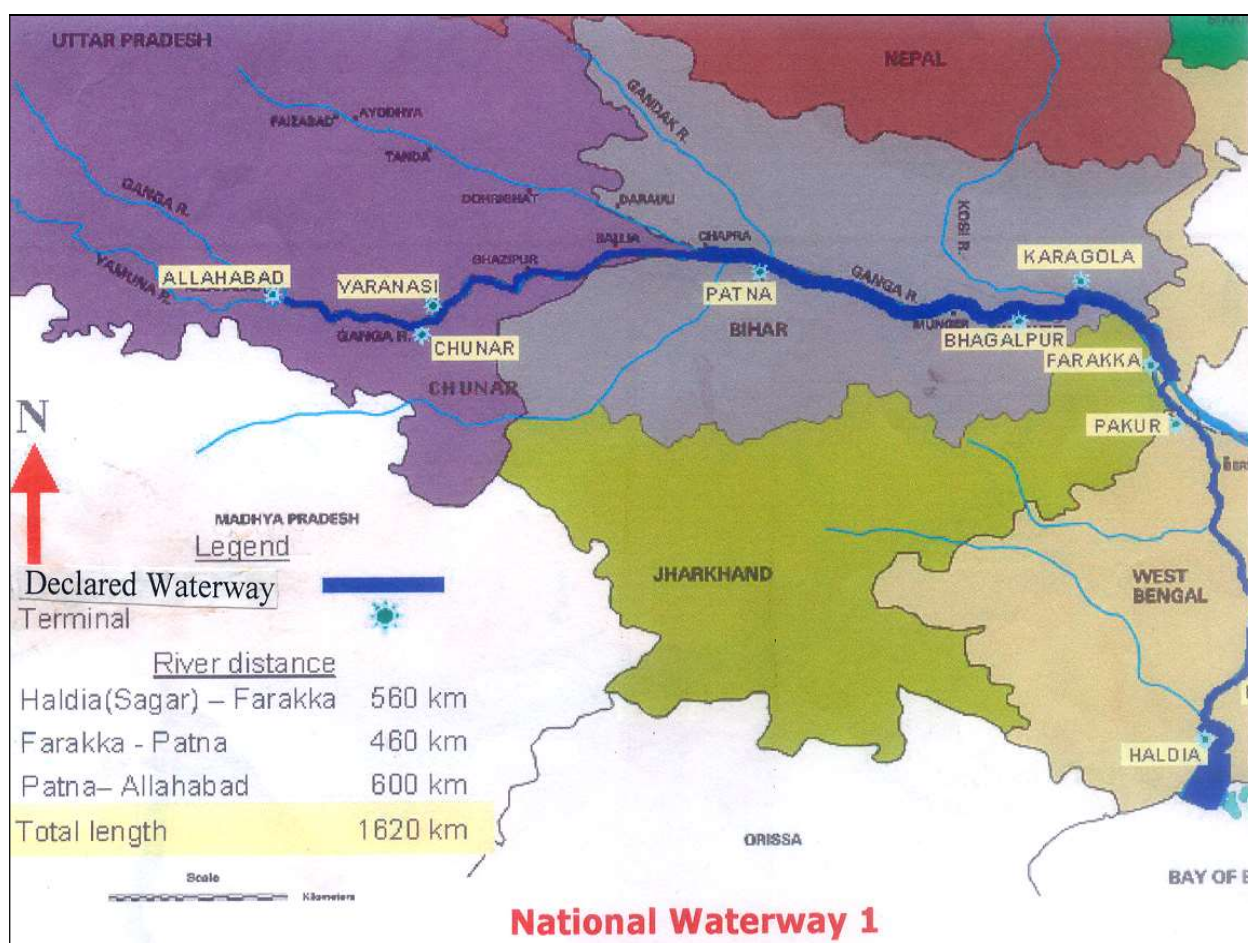
**I.** The Feasibility Reports (FRs) and the Detailed Project Reports(DPRs) of new 106 NWs have now been completed. After detailed analysis of the outcomes and recommendations of the FRs/ DPRs, input from stakeholders, 106 NWs have been categorized into three categories. The detailed parameters which 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 92.06 lakh tonnes in 2020-21 against 91.12 lakh tonnes in 2019-20 reflecting an increase of 1.03 %. 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 52.3 % of traffic on NW-1 followed by Mix (31.9%) and miscellaneous (14.6%). These three items together accounted for about 98.8 % of the total cargo moved on NW I during 2020-21.

<b>Table 3 : Composition of Cargo Moved on National Waterway- I (In Tonnes)</b>						
<b>Name of the Commodity</b>	<b>2015-16</b>	<b>2016-17</b>	<b>2017-18</b>	<b>2018-19</b>	<b>2019-20</b>	<b>2020-21</b>
Building Material	2393416 (38.4)	2704742 (60.0)	3568909 (65.1)	4478790 (61.0)	4650148 (51.0)	4816082 (52.3)
Fertilizers	124000 (2.0)	726260 (16.1)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Food items	499024 (8.0)	137730 (3.1)	38340 (0.7)	260 (Neg.)	5134 (0.1)	105743.47 (1.1)
Miscellaneous	8010 (0.1)	59478 (1.3)	2816 (0.1)	5323 (0.1)	2162514 (23.7)	1341447 (14.6)
Mix	0 (0.0)	0 (0.0)	1694196 (30.9)	2854087 (38.8)	2269124 (24.9)	2935470 (31.9)
Ore/Minerals	31000 (0.5)	16761 (0.4)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
POL/POL products	273684 (4.4)	162520 (3.6)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Coal	2843001 (45.6)	668740 (14.8)	160262 (2.9)	924 (Neg.)	9409 (0.1)	0 (0.0)
Iron steel	64989 (1.0)	29146 (0.6)	14839 (0.3)	9946 (0.1)	16068 (0.2)	7222.202 (0.1)
<b>Total NW I</b>	<b>6237124</b>	<b>4505377</b>	<b>5479362</b>	<b>7349330</b>	<b>9112397</b>	<b>9205965</b>
<b>Source:</b> Inland Waterways Authority of India for National Waterways. <b>Note:</b> Figure within brackets indicates percentage to the total <b>Neg.</b> – 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.						

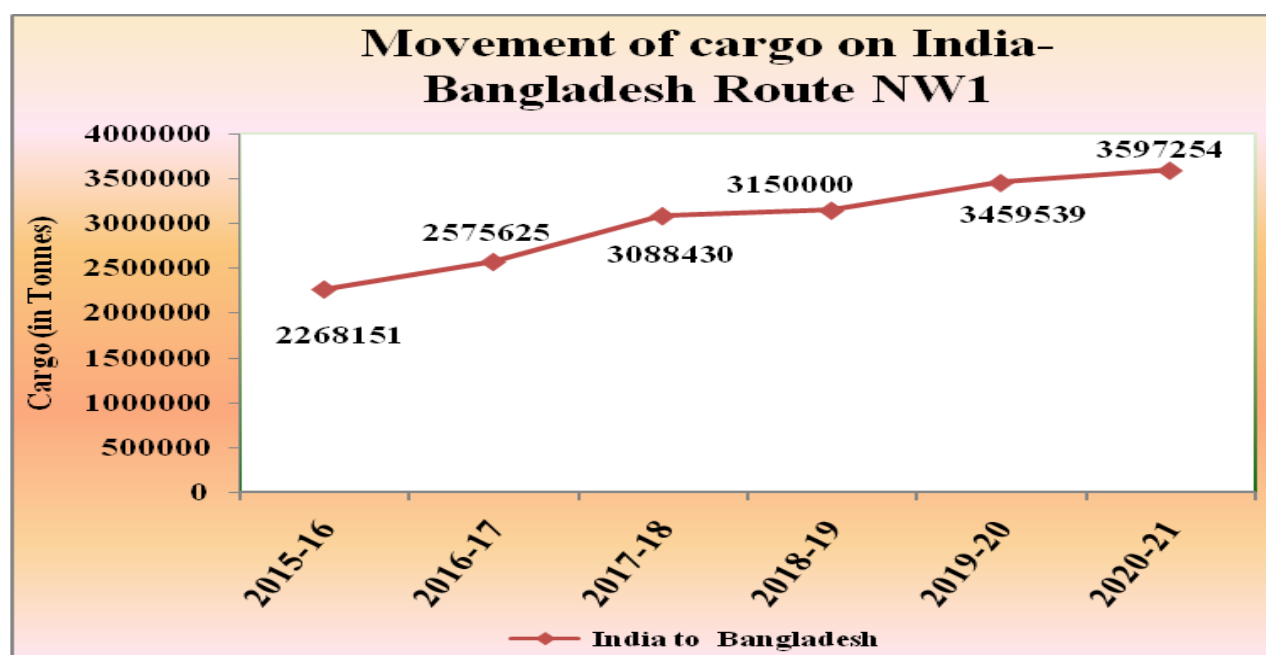
## Cargo carried on Indo -Bangladesh Waterway Route

### 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 3.98% in year 2020-21 over that in 2019-20. The cargo moved over this route has increased to 3597254 tonnes in 2020-21 against 3459539 tonnes in 2019-20

18. The graph below depicts trend in cargo movement on India-Bangladesh route (National Waterway-I) during the years 2015-16 to 2020-21.



19. The table 4 shows the cargo and the main commodities carried on India-Bangladesh route on National Waterway-I during the years 2015-16 to 2020-21.

<b>Table 4: Movement of Cargo ( in Tonnes) on India- Bangladesh route of NW I*(Tonnes)</b>							
<b>Route</b>	<b>2015-16</b>	<b>2016-17</b>	<b>2017-18</b>	<b>2018-19</b>	<b>2019-20</b>	<b>2020-21</b>	<b>Commodities</b>
India to Bangladesh	2268151	2575625	3088430	3150000	3459539	3597254	Fly Ash, Limestone, Project Cargo, Container, Rice, Stone Chips, Stone Boulder, Coal, Fertilizer, Sponge Iron, Iron & steel, Ores, Timber, POL, ODC etc.
<b>Total</b>	<b>2268151</b>	<b>2575625</b>	<b>3088430</b>	<b>3150000</b>	<b>3459539</b>	<b>3597254</b>	
<b>Source:</b> Inland Waterways Authority of India							
<b>*Note-</b> 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 IAWAI: Jal Marg Vikas Project (NW-1) Project: Status of implementation as on 30.06.2021 is detailed hereunder-

Jal Marg Vikas Project (JMVP) on National Waterway – 1 (NW-1) from Haldia to Varanasi was approved by the CCEA on 3rd January, 2018 at a cost of Rs 5369.18 crores. The loan agreement with the World Bank was signed on 2nd February 2018.

- A. The estimated cost of JMVP of Rs 5369.18 crore (US\$ 800.00 million) was to be utilized as per the following funding pattern:
- (i) IBRD Loan – Rs. 2,512.00 crores (US\$ 375.00 million);
  - (ii) Government of India Counterpart Funds (budgetary allocation and proceeds from issue of infrastructure bonds: Rs. 2,556.00 crores (US\$ 380.00 million); and
  - (iii) Private sector participation under PPP mode: Rs 301.00 crores (USD\$ 45.00 million).
- B. Consequent to the review held on 10.06.2020 through teleconferencing by Ministry of Shipping under the chair of Secretary (Shipping) with the IWAI, the estimated cost of JMVP was revised to Rs. 4,633.81 crores from the original estimated cost of Rs. 5,369.18 crores approved by the CCEA on 03.01.2018, thereby effecting a saving of Rs. 735.51 crores (USD 109.78 million) in the project cost. The savings comprise of Rs. 387.10 crores (USD 57.78 million) from the IBRD loan component and Rs. 348.41 crores from the counterpart fund component. The revised cost estimate also includes several activities aligned to the Arth Ganga Concept estimated to cost Rs. 746.00 crores. Consequently, on the request of IWAI/ Ministry of Shipping, Department of Economic Affairs (DEA) has requested the World Bank on 17.06.2020 for cancellation of USD 57.78 million from the overall IBRD loan for the JMVP. As a result, the IBRD loan component will get reduced to USD 317.22 million.
- C. The project implementation, including the work on activities aligned to the Arth Ganga Concept, is planned to be completed by December, 2023, the original completion date approved by the CCEA and is progressing as per the original schedule.
- D. The project has achieved an overall financial progress of 40.70% of revised cost and physical progress of 42.94%.
- E. Present status of civil works is as under:
- Constructions of multimodal terminals at Varanasi and Sahibganj have been completed.
  - Physical progress of Multimodal terminal at Varanasi is 100%; and financial progress is Rs. 182.33 cr.
  - Physical progress of Multimodal terminal at Sahibganj is 99.50%; and financial progress is Rs. 255.97 cr.
  - Physical progress of Multimodal terminal at Haldia is 97.24%; and financial progress is Rs. 465.53 cr. Contractor has requested time extension upto 24.12.2021.
  - Physical progress of the new navigation lock at Farakka is 86.50%; and financial progress is Rs. 289.13 cr. The work on this lock is expected to be completed in FY 20-21.

F. Dredging Management Plan (DMP) in consultation with Expert Committee including NTCPWC, IIT Madras has been prepared and approved by IWAI Board for implementation.

- Provision of least assured depth (LAD) of 3m and bottom channel width of 35/45 m on the Farakka-Kahalgaon stretch (146 Kms), Sultanganj-Mahendrapur stretch (74 kms) and Mahendrapur-Barh stretch (71 kms) through Performance Based Assured Dredging contracts. The contracts were awarded to M/s Adani Ports & SEZ Ltd. on 09.04.2018, 12.04.2019 and 12.04.2019 at costs of ₹177.00 crores, 159.30 crores and 182.9 crores respectively. Financial Progress: (a) Farakka-Kahalgaon stretch: ₹ 101.29 cr.; (b) Sultanganj-Mahendrapur stretch: ₹ 34.49 cr.; and (c) Mahendrapur-Barh stretch: ₹ 31.32 cr.
- Tenders for Least Assured Depth on Barh- Digha and Digha- Majhaua stretches were floated on 20.11.2019. Due date of submission of bids was 23.03.2020.

No bids received due to COVID. Tender closed and being refloated on revised dredging strategy.

G. On the advice of NTCPWC of IIT, Chennai, the dredging strategy plan for providing an LAD of 2.5 m and bottom channel width of 30 m on the Barh-Majhaua stretch through Departmental Dredgers on O&M Contracts; and on Majhaua-Ghazipur stretch and Ghazipur-Varanasi stretch through Quantity Based Maintenance Dredging contract are under finalization.

1. Barh – Digha – Majhaua
2. Majhaua – Ghazipur
3. Ghazipur – Varanasi
4. Trebeni – Farakka

Tender documents on above four Quantity Based Dredging are under finalization.

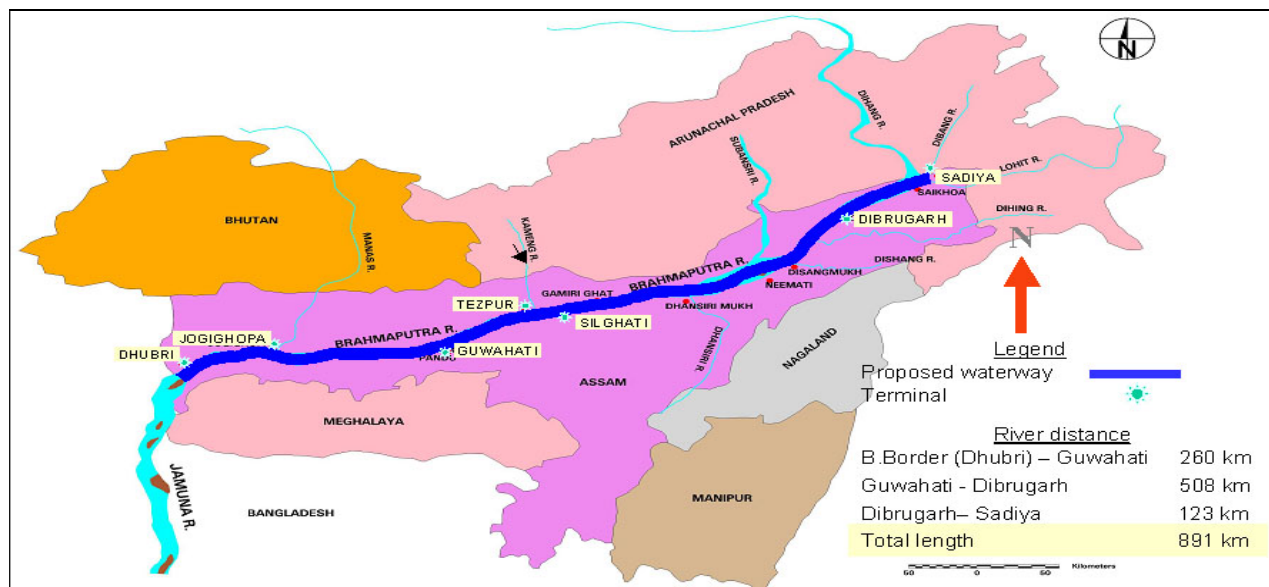
- Trebeni - Farakka – NIT for this stretch has been released on 21.11.2020. Tender was opened on 04.03.2021 and only one bid was received. After receiving “No Objection” from the World Bank the tender has been cancelled and retendering is in process.
- All the awarded contracts are to be completed by March, 2023.

H. Presently, no dredging is planned on the Kahalgaon-Sultanganj stretch (50 km) due to the presence of Dolphin Sanctuary.

I. Freight movement on NW-1 has increased from 4.89 MT in 2016-17 to 9.21 MT in 2020-21 thereby marking an increase of 88% since 2016-17 and a CAGR of 17%.

Construction of IMT – Terminal at Kalughat, NIT was released on 17.12.2020; the pre-bid has been conducted on 06.01.2021. Tender was opened on 30.03.2021 only two bids received. Price bid is scheduled to be opened on 12.07.2021.

### **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:

- (i) 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)/Orumghat (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 1 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 Hooghly Cochin Shipyard Ltd.

(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 the consultant.

(vi) RO-PAX SERVICE COMMENCED IN NATIONAL WATERWAYS-II:

IWAI procured four more Ro-Ro vessels for NER. The Operation of Ro-Pax vessels inaugurated by Hon'ble Prime Minister during February 2021 for the following routes:

Vessel Name	Ro-Ro / Ro-Pax Service between	Date of Inauguration by Hon'ble Prime Minister
MV Rani Gaidinliu & MV Sachin Dev Barman	Neamati and Kamalabari (Majuli)	18.02.2021
MV JFR Jacob	Guwahati and North Guwahati	18.02.2021
MV Bob Khathing	Dhubri and Fakirganj (U/S Hatsingimari)	18.02.2021

23. The total cargo traffic on NW II was 3.07 lakh tonnes during 2020-21 as against 3.93 lakh tonnes during 2019-20. Commodity-wise composition of cargo movement over the years on this waterway is given below:

<b>Table 5 : Composition of Cargo Moved on National Waterway - II (In Tonnes)</b>						
Commodity	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
Building Material	-	-	-	-	-	-
Food items	-	-	-	-	-	-
Miscellaneous	2584306 (100.0)	2590754 (100.0)	3162151 (100.0)	2871817 (100.0)	392767 (100)	307095 (100)
Mix	-	-	-	-	-	-
Ore/Minerals	-	-	-	-	-	-
POL/POL Products	-	-	-	-	-	-
<b>Total NW II</b>	<b>2584306</b>	<b>2590754</b>	<b>3162151</b>	<b>2871817</b>	<b>392767</b>	<b>307095</b>

**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.

### **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, Thrikkunnappuzha 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 Trikkunnappuzha 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 upto 2020-21. The volume of cargo increased to 7.34 lakh tonnes in 2020-21 from 5.46 lakh tones in 2019-20 recording an increase 34.5 %.

<b>Table 6 : Composition of Cargo Moved on National Waterway - III (In Tonnes)</b>						
<b>Commodity</b>	<b>2015-16</b>	<b>2016-17</b>	<b>2017-18</b>	<b>2018-19</b>	<b>2019-20</b>	<b>2020-21</b>
Chemicals	155567 (14.7)	195809 (19.0)	323501 (75.6)	387002 (92.1)	540997 (99.07)	657540 (89.5)
Fertilisers	216648 (20.4)	224903 (21.8)	57998 (13.6)	29403 (7.0)	0 (0.0)	0 (0.0)
Food items	-	-	-	-	-	-
Mix	686350 (64.7)	608670 (58.9)	42860 (10.0)	247 (0.1)	5054 (0.93)	77042 (10.5)
Ore/Minerals	-	-	-	-	-	-
POL/POL products	2477 (0.2)	3457 (0.3)	3630 (0.8)	3630 (0.9)	0 (0.0)	0 (0.0)
<b>Total NW III</b>	<b>1061042</b>	<b>1032839</b>	<b>427989</b>	<b>420312</b>	<b>546051</b>	<b>734582</b>
<b>Source:</b> Inland Waterways Authority of India for National Waterways. <b>Note:</b> 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 (89.5%) and Mix (10.5%) were the major commodities moved through NW-III during 2020-21. 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) increased by 1.9% from 100.51 lakh tonnes during 2019-20 to 102.47 lakh tonnes during 2020-21. In 2020-21, 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 89.8%, 3%, and 7.2% 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 98.9%, 0.2% and 0.9% of the total tonne kilometers moved. The highest share of NW I in tonne kilometers reflect long average distance travelled by cargo of 253.19 kms compared with an average distance of 14.62 kms for NW II and average distance of 29.26 kms for NW III in the year 2020-21. Table 7 gives cargo movement of National Waterways in Tonnage and Tonne Kilometers.

<b>Table 7 : Cargo Movement on National Waterways</b>									
Sl. No	Details of Waterway	Cargo Moved ( lakh Tonnes)				Tonne Kms (in lakh )			
		2017-18	2018-19	2019-20	2020-21	2017-18	2018-19	2019-20	2020-21
<b>1</b>	<b>National Waterway No. I</b>	54.79 (60.4)	73.49 (69.1)	91.12 (90.7)	92.06 (89.8)	27773 (97.5)	29003.84 (97.8)	30544 (99.4)	23309.40 (98.9)
<b>2</b>	<b>National Waterway No. II</b>	31.62 (34.9)	28.72 (27.0)	3.93 (3.9)	3.07 (3.00)	614.69 (2.2)	561.00 (1.9)	79.34 (0.3)	44.9 (0.2)
<b>3</b>	<b>National Waterway No. III</b>	4.28 (4.7)	4.20 (3.9)	5.46 (5.4)	7.34 (7.2)	81.14 (0.3)	88.3 (0.3)	101.97 (0.3)	214.8 (0.9)
	<b>Total NWs</b>	<b>90.69</b>	<b>106.41</b>	<b>100.51</b>	<b>102.47</b>	<b>28468.83</b>	<b>29653.14</b>	<b>30725.31</b>	<b>23569.1</b>
<p><b>Source:</b> 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 &amp; NW-II through Bangladesh.</p> <p><b>Note :</b> Figure within brackets indicate percentage to the total</p>									

**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 2015-16 onwards in volume terms on the National Waterways in 2020-2021 as compared to 2019-20.

<b>Table 8: Composition of Cargo Moved on national waterways ( In tonnes)</b>						
<b>Commodity</b>	<b>2015-16</b>	<b>2016-17</b>	<b>2017-18</b>	<b>2018-19</b>	<b>2019-20</b>	<b>2020-21</b>
Building Material	2393416 (24.2)	2704742 (33.3)	3568909 (39.4)	4478790 (42.1)	4650148 (46.3)	4816082.1 (47.0)
Chemicals	155567 (1.6)	195809 (2.4)	323501 (3.6)	387002 (3.6)	540997 (5.4)	657532 (6.4)
Fertilisers	340648 (3.4)	951163 (11.7)	57998 (0.6)	29403 (0.3)	0 (0.0)	0 (0.0)
Food items	499024 (5.0)	137730 (1.7)	38340 (0.4)	260 (Neg.)	5134 (0.1)	105743.47 (1.0)
Miscellaneous	2592316 (26.2)	2650232 (32.6)	3164967 (34.9)	2877140 (27.1)	2555281 (25.42)	1648542 (16.1)
Mix	686350 (6.9)	608670 (7.5)	1737056 (19.2)	2854333.9 (26.8)	2274178 (22.6)	3012512 (29.4)
Ore/Minerals	31000 (0.3)	16761 (0.2)	0 (0)	0 (0)	0 (0.0)	0 (0.0)
POL/POL Products	276161 (2.8)	165977 (2.0)	3630 (Neg.)	3660 (Neg.)	0 (0.0)	0 (0.0)
Coal	2843001 (28.8)	668740 (8.2)	160262 (1.8)	924 (Neg.)	9409 (0.1)	0 (0.0)
Iron & Steel	64989 (0.7)	29146 (0.4)	14839 (0.2)	9946 (0.1)	16068 (0.2)	7222.20 (0.1)
<b>Total</b>	<b>9882472</b>	<b>8128970</b>	<b>9069502</b>	<b>10641459</b>	<b>10051215</b>	<b>10247634</b>
<b>Source:</b> Inland Waterways Authority of India <b>Note :</b> 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 (54%), Iron Ore (26%), Lime Stone (4%) 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 (44%), Coal (25%), Steel (9%), Lime Stones (7%), and other Misc. commodities (15%).

#### **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.

#### **NATIONAL WATERWAY-5**

**33.** Govt. of India declared National Waterway-5 (NW-5) in Mahanadi / Brahmani delta, Matai River & East Coast Canal (ECC) in November 2008 for total length of about 600 Km. The

Brahmani / Mahanadi river basins extending in Madhya Pradesh, Jharkhand & Odisha have rich deposits of minerals, coal, iron ore and large production of various industrial & agricultural products. The likely commodities to be transported through NW-5 could be divided into three groups namely, Minerals (Coal, Iron Ore), Agricultural products (Paddy, Rice, Straw, Animal fodder, fish, Jute) and Finished goods / Manufactured products (from Kalinganagar industries, textiles and forest).

IWAI awarded the preparation of Detailed Project Report on NW-5 (East Coast Canal & Brahmani / Kharsua River System) to WAPCOS Ltd and DPR submitted in March, 2010. The lengthwise distribution of NW-5 in 3 different stretches, as per the DPR is given below:

(i)	Stretch I	:	Talcher to Mangalgadi	:	237 Km
(ii)	Stretch II	:	Dhamra to Paradip	:	95 Km
(iii)	Stretch III	:	Dhamra to Geonkhali	:	<u>256 Km</u>
<b>Total</b>				<b>:</b>	<b><u>588 Km</u></b>

Phase-I development covering 212 Km between Paradip / Dhamra and Pankapal is proposed.

#### **Action plan for development of NW-5:**

Sl No	Major Activities	Status of works
1.	Monthly Thalweg Survey from Pankapal to Dhamra - Paradip via. Mangalgadi: 230 LKM per month.	Monthly Thalweg Survey conducted & LAD report being issued.
2	Construction of 4 Weirs cum Barrages with 3 Navigation locks, 2 Check Dams & 1 Rubber Dam with Navigation Locks	Final DPRs / Report submitted to CWC, for final vetting D&D.
3	Modification / Reconstruction of existing Bridges	Final acceptance of DPRs / Report is pending.
4	EIA / EMP study between Paradip / Dhamra and Pankapal (Fairway development)	MoEF&CC informed on 05th Jan, 2021 that no EC is required. Only CRZ & Wild life clearances are to be obtained from GoO.
5	Shifting / Relocation of HT / LT Power lines in NW-5.	Entrusted to Govt. of Odisha & works are in slow progress, timelines issued to IWAI BBSR to expedite / complete by 31.07.2021

#### **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. 10130 candidates have been trained till November 2020.
- ii. The administration and management of the Institute is done by IWAI Patna from 1<sup>st</sup> of December, 2018.
- iii. NINI has got upgraded to ISO 9001:2015 certifications from American Bureau of Shipping Classification Society on 23<sup>rd</sup> 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
13. Induction training to newly recruited floating staff of IWAI.

**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).

<b>Table 9: Number of Inland Water Vessels and Cargo Carried – State wise</b>								
State/UT	Number of Vessels				Volume of Cargo Carried ( thousand tonnes)			
	2017-18	2018-19	2019-20	2020-21	2017-18	2018-19	2019-20	2020-21
Assam	191	198	203	256	706066.16	272873.15	367669.60	94866.57
Bihar	138*	138*	138*	68	2.40*	2.40*	2.40*	11.95
Goa	266	250	244	265	71902.10	14839.4	8200	35471.67
Karnataka	66	66	37	37	93.27	0	24.45	26.45
Kerala	7656	5953	5590	5018	447.98	262.35	56098.80	18828.72
Maharashtra	1166	1391	1663	1421	18336.59	20397.93	20951.51	32955.70
Orissa	635	335	73	73	-	-	-	-
West Bengal	2216	2327	2381	2399	36719	46930	56725	58752
Tamil Nadu	2	2	2	-	-	-	-	-
Gujarat	-	495	454	437	-	-	-	-
Jharkhand	-	-	-	2				
<b>TOTAL (reporting states)</b>	<b>12336</b>	<b>11155</b>	<b>10787</b>	<b>9976</b>	<b>833567.5</b>	<b>355305.2</b>	<b>509671.76</b>	<b>240913.06</b>

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

\*: Pertains to 2016-17 as data for these years was not provided by the state

The total number of vessels in the States during 2020-21 was 9976 which is lower as compared to 10787 vessels in the year 2019-20. Kerala has reported the highest number of vessels 5018 followed by West Bengal (2399), Maharashtra (1421), Gujarat (437) and Goa (265). However, the volume of cargo handled through these vessels in the year 2020-21 was 240913.06 thousand tonnes. Assam has reported the highest cargo handled through waterways which was 94866.57 thousand tonnes followed by Goa 35471.67 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 4.2 (section 4).

The Maximum cargo of 16392.83 thousand tonnes was carried by Sesa Resources Ltd. followed by PNP Maritime Services Pvt. Ltd (3272.05 thousand tonnes), Vedanta Ltd. (3150.38 thousand tonnes), JSW Jaigarh Port Ltd. (2668.32) and VIVADA Inland Waterways Ltd. (825.22 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 2020-21 is given below in Table 10.

<b>Table 10 : Top Fifteen Private Companies - Cargo moved along with Powered Vessels 2020-21</b>		
<b>Name of the Company</b>	<b>No. of Powered Vessels</b>	<b>Cargo moved ('000 tonnes)</b>
1. Sesa Resources Ltd. Goa	2	16392.83
2. PNP Maritime Services Pvt. Ltd.	3	3272.05
3. Vedanta Ltd.	17	3150.38
4. JSW Jaigarh Port Ltd	4	2668.32
5. VIVADA Inland Waterways Ltd.	16	825.22
6. Jindal ITF Ltd.	28	589.29
7. JSW Salav Steel Ltd.	8	579.89
8. Pennon Shipping	6	349.34
9. . Maharshi Shipping Co.	6	274.86
10. . Kerala Shipping & Inland Navigation Co. Ltd	6	257.10
11 V.M.Salgaocar Sales International	2	219.48
12. Infrastructure Logistics Pvt. Ltd.	5	215.68
13. S. V. Salgaocar	1	156.88
14 Ganges Water Transport Co. Pvt. Ltd.	2	89.46
15. Backwater Navigation Co.	1	66.04

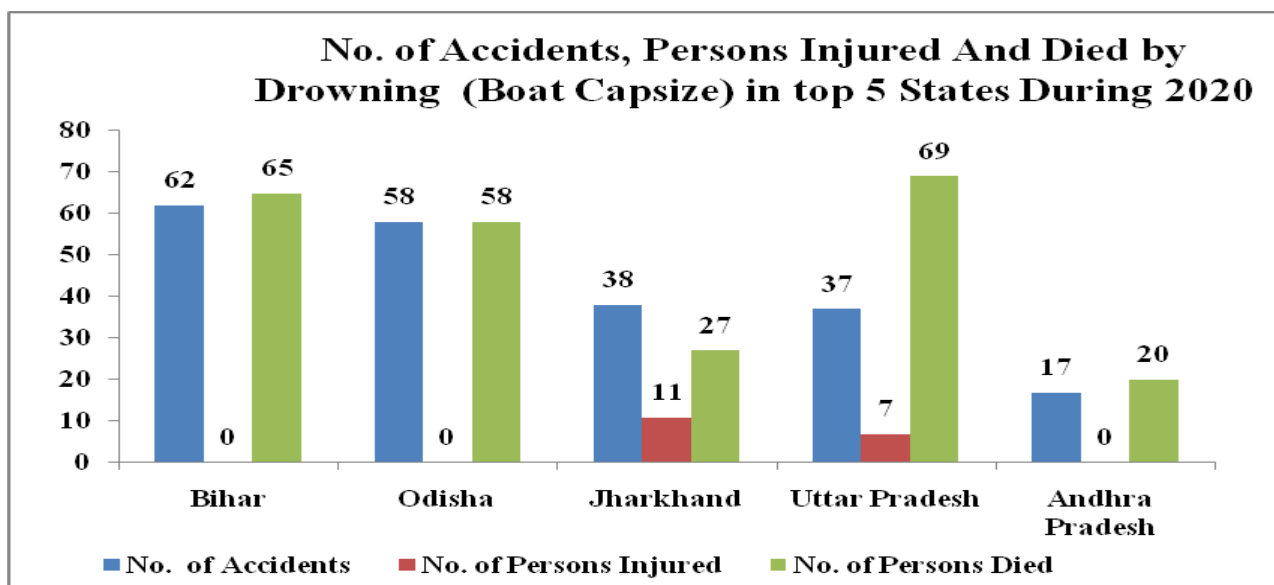
**Source:** Private Companies/ Undertakings engaged in inland water transport activities

## **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 2020-21 was Rs. 540.00 crore and Revised Estimate (R.E) during 2020-21 was Rs. 413.50 crore. The expenditure during the same year was Rs. 374.92 crore (Provisional). Out of Rs. 374.92 crore; the expenditure of Rs. 222.92 crore (Provisioal) was done on one of the Central Sector Project namely Jal Marg Vikas Project (JMVP). For the year 2021-22 the Budget Estimate (B.E.) was Rs. 486.10 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 2020 was 291 out of which 62 were reported in Bihar followed by Odisha and Jharkhand with 58 and 38 accidents respectively. The number of deaths during the year due to boat mishaps was highest in Uttar Pradesh at 69 followed by Bihar and Odisha with 65 and 58 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 2020 is presented in the graph given below.



Source: Accidental Deaths & Suicides in India- 2020, *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	2020-21	
			Total Length of the Rivers/Canals/Lakes in the State	Navigable Length
1		2	3	4
1	<b>ANDHRA PRADESH</b>			
	(i)	Godavari	1530	171
	(ii)	Krishna	1400	157
	(iii)	Others **	832.73	832.73
		<b>Total</b>	<b>3762.73</b>	<b>1160.73</b>
2	<b>ASSAM</b>			
	(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	352	61
	(ix)	Puthimari	58.234	72
	(x)	Gangadhar	62	62
	(xi)	Kopili	50	46
	(xii)	Dikhw	92	63
	(xiii)	Jinjiram	43	43
	(xiv)	Lohit	2677	100
	(xv)	TLWANG (DHALESWARI) RIVER	87.136	86
		<b>Total</b>	<b>7657.37</b>	<b>2024</b>
3	<b>BIHAR</b>			
	(i)	Ganga	480	480
	(ii)	Gandak	210	210
	(iii)	Koshi	236	236
	(iv)	Ghaghra	85	85
		<b>Total</b>	<b>1011</b>	<b>1011</b>
4	<b>GOA</b>			
	(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	17	17
		<b>Total</b>	<b>273</b>	<b>248</b>
5	<b>GUJARAT *</b>			
		<b>Total</b>		

Table No. 1.1 (Contd...)

## Navigable Waterways in India

(In Kms.)

Sl. No.	State/Rivers/Canals/Lakes	2020-21	
		Total Length of the Rivers/Canals/Lakes in the State	Navigable Length
1	2	3	4
<b>6 KARNATAKA</b>			
(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)	Nethravathi	96	26
(xiii)	Kali	184	29
		<b>2902</b>	<b>1215</b>
<b>7 KERALA</b>			
(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	-	-
(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)	Nileswarem	-	-
(xxxiii)	Chittari	-	-

Table No. 1.1 (Contd...)

## Navigable Waterways in India

(In Kms.)

Sl. No.	State/Rivers/Canals/Lakes	2020-21	
		Total Length of the Rivers/Canals/Lakes in the State	Navigable Length
1	2	3	4
(xxxiv)	Chandragiri	-	-
(xxxv)	Mogzhal	-	-
(xxxvi)	Shiriyā	-	-
(xxxvii)	Uppala	-	-
(xxxviii)	Manjeswaram	-	-
(xxxix)	Total of Rivers	2016.384	818.812
(xxxx)	Others **	904.233	1048.104
	<b>Total</b>	<b>2920.62</b>	<b>1866.92</b>
<b>8</b>	<b>MAHARASHTRA</b>		
(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 Kurudunda)	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
	<b>Total</b>	<b>631.00</b>	<b>461.50</b>
<b>9</b>	<b>UTTAR PRADESH ***</b>		
(i)	Gomti	960	-
(ii)	Rapti	778	-
(iii)	Ghaghra	1116	-
(iv)	Ganga	2345	425
(v)	Sai	760	-
(vi)	Tons	485	-
	<b>Total</b>	<b>6444</b>	<b>425</b>

Table No. 1.1 (Contd...)

## Navigable Waterways in India

(In Kms.)

Sl. No.	State/Rivers/Canals/Lakes	2020-21	
		Total Length of the Rivers/Canals/Lakes in the State	Navigable Length
1	2	3	4
<b>10 ODISHA</b>			
(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
	<b>Total</b>	<b>2425</b>	<b>1555</b>
<b>11 TAMIL NADU</b>			
(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
	<b>Total</b>	<b>211.1</b>	<b>14</b>
<b>12 WEST BENGAL</b>			
(i)	Hooghly	580	580
(ii)	Mahananda	206	58
(iii)	Ajoy	174	174
(iv)	Jalangi	232	232

Table No. 1.1 (Contd...)

## Navigable Waterways in India

(In Kms.)

Sl. No.	State/Rivers/Canals/Lakes	2020-21	
		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
	<b>Total</b>	<b>4741</b>	<b>4593</b>
<b>13 NAGALAND</b>			
(i)	Tizu/Zungki	42	42
(ii)	Dhansiri/Chathe	110	110
(iii)	Dikhu	63	63
(iv)	Doyang	61	61
	<b>Total</b>	<b>276</b>	<b>276</b>
<b>14 MIZORAM</b>			
(i)	Chhimtuipui/ Kolodyne River	138.46	N.A.
(ii)	Tlawng River	185.15	N.A.
(iii)	Khawthlangtuipui River	128.08	N.A.
(iv)	Tuichawng River	107.87	N.A.
(v)	Tuivai River	134.61	N.A.
(vi)	Tuivawl River	72.45	N.A.
(vii)	Tuirial River	117.53	N.A.
(viii)	Serlui River	56.33	N.A.
	<b>Total</b>	<b>940.48</b>	<b>0</b>
<b>15 Jharkhand*</b>			
	<b>Total</b>		

Source: IWT Directorate of states.

\* Data is reported nil for the year 2020-21

\*\* Including Canals, Lakes &amp; other waterways.

\*\*\* Information for the year 2020-21 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 12Km, 2 Km 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. The other stretch of 15 km is damaged and encroached by local people. 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, navigation could be possible only after renovation.

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

N.A.- Data not available

<div>Table No. 1.2</div> <div>Infrastructure Facilities Available on National Waterways (As on 31-3-2021)</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
<b>National Waterway No.1</b>					
<b>1. Haldia - Farakka : (560 Km) ,Depth - 2.6 to 3.0</b>					
(i) Haldia	1500	Three(Floating)	Nil	One Godown of size 12 x 30m and Open	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	One (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)	One number of crane pontoon for cargo handling	To be stored on Pontoon	Land belongs to KoPT being used by IWAI 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)	One number of crane pontoon for cargo handling	Nil	Land belongs to WBPDCCL and the same has been taken on lease from WBPDCCL. At present a RCC Yoke stage is constructed at BTPS. Further, the jetty is used for loading of flyash, broken rice and other cargo.
(vii) Shantipur	600	One(Floating)	Nil	To be stored on Pontoon and open space of IWAI's land 2000 Sq. m	Land belongs to State Govt. of W.B. being used by IWAI 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) Hazarduari	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 (IWAI'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
<b>2. Farakka - Barh : (400 km), Depth- 2.1 to 2.5</b>					
(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	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 31-3-2021)					
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) Manihari	600	One(Floating)	Nil	To be stored on Pontoon.	Being used for berthing of vessel, embark/disembark, loading/unloading and logistics
(xvi) Bateswarsthan	600	One (Floating)	Nil	To be stored on Pontoon.	Being used for berthing of vessel, embark/disembark, loading/unloading and logistics
(xiii) Samdaghat (Sahibganj)	600	One(Floating)	Nil	To be stored on Pontoon.	Being used for berthing of vessel, embark/disembark, loading/unloading and logistics
(xv) Bhagalpur	600	One(floating)	Nil	To be stored on Pontoon and open space	Being used for berthing of vessel, embark/disembark, loading/unloading and logistics
(xvi) Munger	600	One (Floating)	Nil	To be stored on Pontoon	Being used for berthing of vessel, embark/disembark, loading/unloading and logistics support.
<b>3. Barh-Ghazipur : (290 km),Depth - 1.6 to 2.0</b>					
(xvii) Semaria	600	One(floating)	Nil	To be stored on Pontoon.	Being used for berthing of vessel, embark/disembark, loading/unloading and logistics support.
(xviii) Patna	1500	level Jetty 46.6m, High level Jetty 70m b	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. Being used for berthing of vessel, embark/disembark, loading/unloading and logistics support. RIS station operational.
(xix) Buxar	600	One (Floating)	Nil	To be stored on Pontoon.	Being used for berthing of vessel, embark/disembark, loading/unloading and logistics support.
<b>4. Ghazipur-Allahabad : (370 km) ,Depth -1.1 to 1.5</b>					
<b>* In Chunar- Allahabad stretch (198 km) Only Hy. Survey is being conducted</b>					
(xx) Ghazipur/ Rajghat	600	One(floating)	Nil	To be stored on Pontoon.	Being used for berthing of vessel, embark/disembark, loading/unloading and logistics support.
(xxi) (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
(xxii) Assighat	600	One(floating)	Nil		Being used for berthing of vessel, embark/disembark, loading/unloading and logistics support.
(xxiii) 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) 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 31-3-2021)					
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. 2					
1. Bangladesh Border-Pandu: (255 km), Depth - 2.5					
(a) Dhubri	2000	One(Rcc 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) Customs & Immigration Facility is available
(b) Jogighopa	2000	One(floating)	Pontoon	Open storage facility available	(i) BG siding is completed and operational. (ii) Approach road is available. However the DPR for new alternate approach road connecting pandu port to NH-31 is being prepared by Consultant. (iii) Customs & Immigration Facility is available. (iv).Storage facilitiv developed.
(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	
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 to Oriumghat
(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, Jogighopa,Biswanath and Dibrugarh.					

Table No. 1.2 (Contd...)		Infrastructure Facilities Available on National Waterways (As on 31-3-2021)			
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
<b>National Waterways No. 3</b>					
<b>1. Kochi-Kottapuram : (30 km), Depth-2.0</b>					
(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
<b>2. Udyogmandal Canal : (23 km),Depth -2.0</b>					
(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
<b>3. Champakara Canal : (14 km), Depth - 2.0</b>					
(c) Emakulam 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.
<b>4. Kochi - Kollam : (138 km) , Depth - 2.0</b>					
(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.
(l)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.
(i). Chavara	350.0	Nil	Land only		Approach road is available.
(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
<b>5. CPT Area : Depth -2.0</b>					
(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 31-3-2021)

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	<b>ANDHRA PRADESH</b> Kakinada to Puducherry	-	-	-	-	-	-	-
2	<b>BIHAR</b> Bateshwarasthan (Ch. 683km)	2.5m	Bateshwarasthan	35 m berth	1	Nil		-
	Bhagalpur (Ch. 715Km)	2.5m	Bhagalpur / 3.86 Acre Land	35 m berth	1	Nil		-
	Munger (Ch. 793km)	2.5m	Munger / 3.40 Acre Land	35 m berth	1	Nil	To be stored on Pontoon.	-
	Semaria (Ch. 850Km)	2.5m	Semaria	35 m berth	1	Nil		-
	Buxar (Ch. 1124Km)	2.0m	Buxar	35 m berth	1	Nil		-
3	<b>GOA</b> <b>Panaji Port (River Mandovi)</b>	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 31.3.2021)

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	5x15 Mtr	2			
	Chilka Lake	1 to 2 Mtr.	Krushnaprasadgda	5x15 Mtr	1			
			Kalija	5x15 Mtr	1			
			Satapada	5x15 Mtr	20			
	Devi River	3 to 8 Mtr.	Astaranga	5x15 Mtr	1			
			Gandakula	5x15 Mtr	1	Only passanger launches operating	N.A.	
	Baitarani River	3 to 8 Mtr.	Chandabali	5x15 Mtr	1			
			Nalitapatia	5x15 Mtr	1			
			Chradia	5x15 Mtr	1			
	Dhamara	3 to 10 Mtr.	Dhamara	5x15 Mtr	1			
			Kaninali	5x15 Mtr	1			
			Talchua	5x15 Mtr	1			
5	TAMILNADU							
	Periyar Lake in Kerala ( Under lease in Tamil Nadu )	41.46 meters	Thekkady	Vessel 1 (kannagi) Length-8.5m Breadth-3m Depth-1.4m	-	-	-	-
				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 31.3.2021)

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	<b>MIZORAM</b>							
7	<b>Nagaland</b>							
	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
	-	-	-	-	-	-	-	Hydrographic survey and Techno Economic feasibility of 20% done in respect Tizu & Zunkri rivers and in the case of Dhansiri Chathe and Dikhu rivers only project proposal concept note done but in the case of river Doyang, potentiality is observed and yet to be taken up
8	<b>Kerala</b>							
	State Waterways	1.5 M	Irrigation Division,Kollam	50 T	Nil	Nil	-	-
	Vembanattukayal	3 to 6 M	Vaikom Terminal	Barrage (250/metric ton)	2	-	3800 Sq /Feet/Godown	Managed by Inland Waterway Authority of India
		2 to 4	Kottayam Terminal		2	-	40000/sq/feet godown	Managed by Kottayam Port & Container Terminal Service Pvt. Ltd.
	-	-	Irrigation Division, Ernakulam	-	10	Cheral Jetty, Chendamangalam Jetty, Eloor Jetty, Thattukadav Jetty	-	-
	-	-	Additional Irrigation Division, Thrissur	-	-	-	-	-
	-	-	Irrigation Division,Malappuram	-	-	-	-	-
	-	-	Irrigation Division, Kozhikkode	-	-	-	-	-
	-	2	Inland Navigation Division, Kollam	50T	Nil	Nil	Nil	Nil
	Kotti Kottapuram 22.63k M	2 to 4 M	State water ways-Irrigation Division,	Nil	Nil	Nil	Nil	Nil
	Valapattanom Kotti (41.7Km)	1.5 (Average)	Kannur	Nil	Nil	Nil	Nil	Nil
	-	-	State Water Transport, Dept.. Allappuzha	-	-	-	-	-
9	<b>Jharkhand</b>							
	52 Kms	3	a) Samdaghat, Rajmahal (MMT)	2000	1	a) Barge Loder- 750TPH, b) Conveyor 1200m Long (Capacity- 750 TPH), c) Front End Loader -8 nos., d) Mobile Harbour Crane- 50 ton.	a) Storage Shed (Area 4000Sq m) for dry cargo. b) Stock Yard (Area 5000sq m)	
			b) Manglahat, Rajmahal (Floating terminal)	2000	1	----	Dumb Barge	

Source : State Govts.

**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)			
			2017-18	2018-19	2019-20	2020-21	2017-18	2018-19	2019-20	2020-21
1	2	3	5	6	7	8	10	11	12	13
1	National Waterway No. I (Allahabad-Haldia stretch of Ganga – Bhagirathi – Hooghly river system)	1620.00	54.79	73.49	91.12	92.06	27773.00	29003.84	30544.00	23309.40
2	National Waterway No. II (Sadiya-Dhubri stretch of Brahmaputra River system)	891.00	31.62	28.72	3.93	3.07	614.69	561.00	79.34	44.9
3	National Waterway No. III (Kollam-Kottapuram stretch of West Coast Canal along with Champakara Canal and Udyogmandal Canal)	205.00	4.28	4.20	5.46	7.34	81.14	88.30	101.97	214.8
4	National Waterway No. IV (Kakinada-Puducherry stretch)*	2890.00		4.50	0.82	68.32		10.00	0.00	189.90
	<b>Sub Total NWs</b>	<b>5606.00</b>	<b>90.69</b>	<b>110.91</b>	<b>101.33</b>	<b>170.79</b>	<b>28468.83</b>	<b>29663.14</b>	<b>30725.31</b>	<b>23759.00</b>
5	Goa Waterways	202.00	111.62	37.72	29.52	85.32	5581.06	1886.40	1476.05	4265.93
6	Maharashtra Waterways	453.00	183.37	203.98	209.52	329.56	5520.00	5972.00	1571.00	5697.37
7	Gujarat Waterways (from Oct 2017)		115.20	288.20	310.15	257.12	1728	4300	4652	4413
8	Sunderban Waterways	172		32.30	34.61	38.61		5600	5988	6558.7
	<b>Grand Total</b>	<b>6261.00</b>	<b>500.88</b>	<b>673.11</b>	<b>685.13</b>	<b>881.40</b>	<b>41297.89</b>	<b>47421.54</b>	<b>44412.36</b>	<b>44694.00</b>

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

Sl. No.	River/Stretch	Approximate Distance (Kms)	(In tonnes)				(In tonnes)
			2017-18	2018-19	2019-20	2020-21	
1	2	3	5	6	7	8	9
<b>A.</b>	<b>CIWTC</b>						
1	(I)Saugar-Diamond Harbour/Haldia /Kolkatta/ Kolkatta Internal	144/80	...	...			Pulses,Logs,Salt,Iron Ore,Steel, Fly Ash,Aluminium block, Fertilizer,
2	Haldia-Internal	2.00	...	...			Container, ODC,Sand Clips
3	Kolkata- Ichamati River at Basirhat	2.00	...	...			Sand, Clips
	<b>Sub Total (A)</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	Sand, Clips
<b>B.</b>	<b>VIVADA IWL</b>						
1	Haldia-Sagar	35	331	0			FO/HF HSD
2	Haldia-Budge-Budge	78/84	51960	57182			FO, HF HSD, Lube
3	Haldia-KPD/NSD/RVM	106/105	63130	63964			HF HSD, Lube Oil, FO
4	Haldia-Diamond Harbour	29	758	1244			FO, HF HSD
5	Budge-Budge-NSD/KPD/RVM/Suri	21/19	1319	440			HF, HSD, FO
6	Halida- J'Ham	10	16544	17407			FO, HF HSD
7	Budge-Budge-KPD	21	0	0			FO, HSD
8	Haldia-Namkhana	46	2940	2165			HF, HSD
9	Budge-Budge-Pujali	5	0	0			LDO
10	Haldia-Haldia Oil Barge	3	74822	83882			FO, HF HSD
11	Haldia-Haldia Oil Jetty	3	53195	71782			FO, HF HSD
12	Surninam-KPD	2	300	0			FO
13	Surninam-NSD	1	0	0			HSD, HF
14	Haldia-HOB	3	0	0			
15	Haldia-KPD	105	0	0			
16	Haldia- Noorpur	43	0	0			
17	Haldia-Ramnagar	101	2458	0			LUBE
18	Budge Budge - Kolkatta	21	0	0			HF, HSD
19	Haldia-Titagar	127	...	82			HF HSD
20	Haldia-RVM	10					
	<b>Sub Total (B)</b>		<b>267757</b>	<b>298149</b>	<b>0</b>	<b>0</b>	
<b>C.</b>	<b>ICSL(Inland &amp; Coastel Shipping Limited)</b>						
1	MMT Varanasi - Gaighat (Patna) -Kolkata	2336.00	...	...	...	65	Fertilizer, Rice Husk
2	IWT Terminal Gaighat-Kolkata	1630.00	...	...	...	275	Carbon, Rice Husk, Food Grains
3	Kolkata-IWT Terminal Gaighat	815.00	...	...	...	50	Food Grains
	<b>Sub Total</b>					<b>390</b>	

**Table No. 2.2** Details of Cargo Moved on National Waterways (National Waterway No.1) - THE GANGA-BHAGIRATHI-HOOGHLY RIVER SYSTEM

Sl. No.	River/Stretch	Approximate Distance (Kms)	(In tonnes)				(In tonnes)
			2017-18	2018-19	2019-20	2020-21	
1	2	3	5	6	7	8	9
<b>D. OTHER PRIVATE OPERATORS</b>							
<b>1</b>	<b>Adani Logistic Ltd.</b>						
1	MMT Sahibganj-Karagola	129	...	...	...	4962	Stone chips
2	MMT/Ro-Ro Sahibganj to Manihari	90	...	...	...	3000	Stone chips
3	Samdaghat (Sahebganj) to Manihari	550	...	...	...	22750	Stone chips
4	Hathidah - Semaria	426	...	...	...	134510	Stone chips
<b>2</b>	<b>TIRUPATI VESSEL (P) LTD.</b>						
1	Budge- Budge(Kol)- Khulna	497	27661	6514	1652		
2	Budge- Budge Narayanganj	884	251660	208548	165646		
3	Budge- Budge- Mongla	484	0	0			
4	IWAI Haldia Jetty-Khulna	439	40663	50541	31258		
5	IWAI Haldia Jetty-Narayanganj	826	42586	41426	73106		
6	Samdaghat (Sahebganj) to Manihari	14		348280	381400	259200	Stone chips
7	Garamghat (Sahebganj) to Manihari	2658	...	...	...	140600	Stone chips
<b>3</b>	<b>Krishna Shipping &amp; Logistics</b>						
1	Hathidah - Semaria	20	...	...	...	3000	Stone chips
2	Garamghat (Sahebganj) to Manihari	6012	...	...	...	417200	Stone chips
<b>4</b>	<b>Varcel Shipping Pvt. Ltd.</b>						
1	MMT/Ro-Ro Sahibganj to Manihari	240	...	...	...	5600	Stone chips
2	Samdaghat (Sahebganj) to Manihari	966	...	...	...	31700	Stone chips
<b>5</b>	<b>Mahalakshmi Engicon Pvt. Ltd.</b>						
1	MMT/Ro-Ro Sahibganj to Manihari	90	...	...	...	2400	Stone chips
2	Samdaghat (Sahebganj) to Manihari	980	...	...	...	34500	Stone chips
<b>6</b>	<b>Jay Bajranjali stone work</b>						
1	MMT/Ro-Ro Sahibganj to Manihari	360	...	...	...	13200	Stone chips
2	Samdaghat (Sahebganj) to Manihari	1434	...	...	...	51500	Stone chips
<b>7</b>	<b>Eastern Navigation Pvt. Ltd.</b>						
1	Samdaghat (Sahebganj) to Manihari	2010	...	...	...	67000	Stone chips
<b>8</b>	<b>Maitrayee Shipping &amp; Logistics</b>						
1	IWAI BISN Jetty-Narayanganj	909	7050	4152	6410		Flyash
2	IWAI BISN Jetty-Khulna	522	0	0			Flyash
3	T.T.Shed-Narayanganj	910	37170	33433	22663	1068	Flyash
4	T.T.Shed-Mongla	510	0	0			Flyash
5	Budge Budge- Narayanganj	884	35427	13993	8992	1450	Flyash
6	Budge Budge- Khulna	497	0	0			Flyash
7	Sri Ram Jetty - Narayanganj	905	715	0			Flyash
8	Budge Budge - Karimganj	1332	0	0			Flyash
9	IWAI BISN 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
<b>9</b>	<b>P K Shipping</b>						
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

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

Table No. 2.2

Sl. No.	River/Stretch	Approximate Distance (Kms)	(In tonnes)				(In tonnes)
			2017-18	2018-19	2019-20	2020-21	
1	2	3	5	6	7	8	9
5	Haldia H.D.C.-Karimganj	1274	0	0			Coal
6	KP Dock- Ashuganj	1038	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 BISN 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 Quality Hot Roll Steel
14	G.R. Jetty-II-Khulna	1357	0	0			Project Cargo
<b>10</b>	<b>SOHAM COMMERCIAL</b>						
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	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 BISN Jetty - Narayanganj	909	0	0			Flyash
8	IWAI BISN Jetty - Khulna	522	0	0			Flyash
9	Putimari Jetty-Khulna (Sohom Overseas)	906.5	...	6356			Stone Chips
<b>11</b>	<b>RENAISSANCE IMPEX Pvt Ltd</b>						
1	IWAI BISN Jetty-Narayanganj	909	4888	0			Flyash
2	IWAI BISN Jetty-Karimganj Assam	1357	0	0			Flyash, HDPE Bags, Coal
3	Sri Ram Jetty-Narayanganj	905	0	0			Flyash
4	Karimganj Assam-IWAI BISN Jetty	1357	0	0			Coal
5	IWAI Haldia Jetty- Narayanganj	826	0	0			Flyash
6	Shri Ram Jetty- Mongla	505	0	0			Flyash
7	TT Shed-Narayanganj	910	4958	0			Flyash
8	Budge Budge Naryanganj	884	2150	0			Flyash
9	Budge Budge Karimganj	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- Narayanganj	909	0	0			
13	IWAI Haldia Jetty- Khulna	439	755	0			Flyash
<b>12</b>	<b>Rivering Shipping &amp; Logistics</b>						
1	IWAI Haldia Jetty-Khulna	439	0	0	5207	9251	Flyash
2	Budge- Budge (Kol)- Khulna	497	6309	11145	18867	33004	Flyash
3	Budge Budge-Naryanganj	884	18912	39480	180299	173970	Flyash
4	TT Shed-Narayanganj	910	45438	44885	178430	157579	Flyash
5	K P Dock- Khulna	523	0	0			Wheat
6	Sri Ram Jetty-Khulna	518	1486	0			Flyash
7	Sri Ram Jetty-Narayanganj	905	10764	0			Flyash
8	IWAI Haldia Jetty-Narayanganj	826	10687	24374	261254	273726	Flyash
9	K P Dock- Mongla	510	0	0	1719		Maize
10	NSD - Mongla	508	0	0			Maize
11	IWAI BISN Jetty-Khulna	522	1892	0	4837	6847	Flyash
12	IWAI BISN Jetty-Narayanganj	909	1964	2598	13414	18987	Flyash
13	GR Jetty II- Khulna	522	0	1573	6633	10437	Flyash

**Table No. 2.2** Details of Cargo Moved on National Waterways (National Waterway No.1) - THE GANGA-BHAGIRATHI-HOOGHLY RIVER SYSTEM

Sl. No.	River/Stretch	Approximate Distance (Kms)	(In tonnes)				(In tonnes)
			2017-18	2018-19	2019-20	2020-21	
1	2	3	5	6	7	8	9
14	HDC Fly Ash Jetty Haldia-Narayanganj	826	5775	9552	60435	31906	Flyash
15	T.T. Shed-Khulna	523	805	741	6006	5511	Flyash
16	Kolaghat-GR Jetty II	97	0	0			Cement
17	GR Jetty II- Narayanganj	909	2887	8311	59743	91068	Flyash
18	GR Jetty II - Mongla	509	1596.44	0			Rice, De Oiled Rice Bran Extraction
19	HDC Fly Ash Jetty Haldia-Khulna				644	697	ODC
20	Haldia-Pandu				3754		Container, Coal
21	IWAI BTPS-Khulna				1568	2222	Flyash
	IWAI BTPS Jetty-2 - Narayanganj					52355	
22	TT Shed-Mongla				117		ODC
						129.58	2 nos. Containers (20 Teu's) from G. R. Jetty-2 & 6 nos. Containers (20 Teu's) from HDC Haldia
23	G.R. Jetty-2, Kolkata / HDC, Haldia - Narayanganj						Sponge Iron in Container (45 TEU)
24	HDC, Haldia - Narayanganj	826				1352	
25	IWAI BISN Jetty - Mongla	509				762	Fly ash
26	K P Dock- Khulna	523				875.79	Fly ash
27	K P Dock- Narayanganj	910				16662.04	Fly ash
28	K P Dock- Mongla	510				62017.71	Rice
29	K P Dock- Khulna	523				1699.07	Rice
30	K P Dock- Narayanganj	910				1603.84	Rice
<b>13</b>	<b>GLOBAL SHIPPING &amp; Forwarding</b>						
1	Budge Budge-Narayanganj	884	1380	840	2294		Flyash
2	Budge Budge-Khulna	497	14113	19153	20977	6048	Flyash
3	IWAI BISN Jetty-Khulna	522	3746	890	1980		Flyash
4	IWAI BISN Jetty-Narayanganj	909	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-Narayanganj	910	708	860	1599		Flyash
8	IWAI Haldia Jetty - Narayanganj	826	0	0			Flyash
9	Sri Ram Jetty-Narayanganj	905	0	0			Flyash
10	HDC Fly Ash Jetty Haldia-Khulna	439	4045	5007	1632		Flyash
11	HDC Fly Ash Jetty Haldia-Narayanganj	826	2655	780	850		Flyash
12	Sri Ram Jetty-Narayanganj	905	0	0			
13	Sri Ram Jetty-Khulna	518	0	0			
14	GR Jetty II- Khulna	522		1678	1892		Flyash
15	Budge Budge-Mongla	484		888			Flyash
	KPD, Kolkata -Mongla	510				12,611.630	Rice
<b>14</b>	<b>COASTAL CONNEXIONS</b>						
1	Budge Budge-Narayanganj	884	0	2386			Flyash
2	Budge Budge-Karimganj	1332	0	0			Flyash
3	Budge Budge-Khulna	497	17470	21024	1438		Flyash

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

**Table No. 2.2**

Sl. No.	River/Stretch	Approximate Distance (Kms)	(In tonnes)				(In tonnes)
			2017-18	2018-19	2019-20	2020-21	
1	2	3	5	6	7	8	9
4	IWAI BISN Jetty-Narayanganj	909	0	0			Flyash
5	BISN Jetty-Narayanganj	1357	0	0			Flyash
6	IWAI BISN Jetty-Karimganj	1357	0	0			Flyash
7	BISN Jetty-Karimganj	1357	0	0			Coal
8	IWAI BISN Jetty-Khulna	532	6973	0			Flyash
9	IWAI Haldia Jetty-Khulna	439	8491	9291			Flyash
10	IWAI Haldia Jetty-Narayanganj	826	0	0			Flyash
11	Karimganj( Badarpur, Assam) - Narayanganj	478	0	0			Cement Clinker
12	GR Jetty II - Khulna	522	945	4256			Flyash
<b>15</b>	<b>KANISHKA SHIPPING LINES</b>						
1	Budge Budge-Narayanganj	884	46519	13236	3884	12995	Flyash
2	IWAI Haldia Jetty-Narayanganj	826	224781	168868	108931		Flyash
3	Sri Ram Jetty-Khulna	518	0	0			Flyash
4	T.T. Shed-Narayanganj	910	17342	59215	87546	40354	Flyash
5	Sri Ram Jetty-Narayanganj	905	9252	0			Flyash
6	IWAI BISN Jetty-Khulna	522	24630	34832	36371	22119	Flyash
7	IWAI BISN Jetty-Narayanganj	895/909	6443	17474	46453	57036	Flyash
8	T.T. Shed - Mongla	510	0	0			Flyash
9	IWAI Haldia Jetty-Khulna	439	34537	43339	12424	50161	Flyash
10	IWAI Haldia Jetty-Mongla	426	0	0			Flyash
	IWAI Haldia Jetty - Narayanganj	826				104510	
11	Diamond Harbour - Ashuganj	962	0	0			Foodgrain( Rice)
12	HDC Fly Ash Jetty-Narayanganj	826	32572	650		1554	Flyash
13	T. T.Shed-Khulna	523	24829	21136	16840	2781	Flyash
14	KPD-Mongla	510	0	2006	3949		Machinery, Steel Cargo, Steam Turbine Associated
15	Budge Budge-Khulna	497	47485	6999	2427	2560	Flyash
16	GR Jetty 2- Narayanganj	909	60128	102712	72713	51437	Flyash
	G.R. Jetty-2 - Mongla	509				2330	Fly ash
17	HDC Fly Ash Jetty-Khulna	439	0	0			Flyash
18	Budge Budge - Mongla	484	1125	0			Flyash
19	GR Jetty II- Khulna	522	6617	25357	48508	13297	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
24	Putimari Jetty-Mongla(Star Mourya Power)	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	508		2069			Steam Turbine, Steel Cargo Associated
27	HDC - Narayanganj	826		4189	1987		Hot Rolled Steel Coils

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

Table No. 2.2

Sl. No.	River/Stretch	Approximate Distance (Kms)	(In tonnes)				(In tonnes)
			2017-18	2018-19	2019-20	2020-21	
1	2	3	5	6	7	8	9
28	HDC - Pandu				2257		Coal
29	IWAI BTPS-Narayanganj				7879	4087	
30	KPD, Kolkata - Mongla	510				11404.419	Rice
31	Narayanganj - T.T. Shed	910				320	Pran Litchi Fruit Drink
<b>16</b>	<b>Eastern Navigation Pvt Ltd., Kolkatta</b>						
1	Kolkatta-Zamania	1065	0	0			ODC Cargo
2	Kolkatta-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	0	981			ODC Cargo
6	Rajmahal to Atthmalgola	303	360	0			Steam Turbine of complete Generator Stator
7	Atthmalgola to Baktiarpur	30	150	0			Crawler crane
8	Mahenderpur to Munger	27	75	0			Crawler crane
9	Manglahat-Doriganj				1774		ODC Cargo
<b>17</b>	<b>A.K.Navigation</b>						
1	T.T.Shed-Narayanganj	910	0	0			Flyash
2	T.T.Shed-Khulna	523	0	0			Wheat
<b>18</b>	<b>Desha International</b>						
1	Budge Budge-Narayanganj	884	152726	270594	115389		Flyash
2	IWAI Haldia Jetty-Khulna	439	5085	16935	9518		Flyash
3	IWAI Haldia Jetty-Mongla	426	2218	3453			Flyash
4	Budge Budge-Khulna	497	36171	53414	20684		Flyash
5	IWAI BISN Jetty-Narayanganj	909	25035	4257	11074		Flyash
6	IWAI BISN Jetty-Karimganj	1357	0	0			Flyash
7	BISN Jetty-Karimganj(Badarpur)	1357	0	0			Coal
8	Sri Ram Jetty-Mongla	505	0	0			Flyash
9	Sri Ram Jetty-Khulna	518	15272	0			Flyash
10	Sri Ram Jetty-Narayanganj	905	58864	0			Flyash
11	T.T.Shed-Mongla	510	359	0			Wheat,Soyabean Extraction, Maize
12	T.T.Shed-Khulna	523	21525	6920	2063		Flyash
13	T.T.Shed-Narayanganj	910	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	510991	519361	176464		Flyash
17	IWAI BISN Jetty-Khulna	532/522	1799	685			Flyash
18	Budge Budge- Mongla	484	690	1610			Flyash
19	IWAI BISN 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	1984.73	0			Steel Coils
26	HDC Fly Ash Jetty-Narayanganj	826	109221	51355	11074		Flyash
27	GR Jetty II- Narayanganj	909	27277	29019	24422		Flyash, Parboiled Rice
28	GR Jetty II- Khulna	522	5411	8288	27667		Flyash, Stone Chips
29	HDC Fly Ash Jetty-Khulna	439	10700	842	838		Flyash
30	KPD - Narayanganj	910	2300	0			Rapseed Extraction

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

**Table No. 2.2**

Sl. No.	River/Stretch	Approximate Distance (Kms)	(In tonnes)				(In tonnes)
			2017-18	2018-19	2019-20	2020-21	
1	2	3	5	6	7	8	9
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		
<b>19</b>	<b>Reliance Enterprise</b>						
1	Budge Budge-Narayanganj	884	0	0			Flyash
2	Budge Budge-Khulna	497	0	0			Flyash
3	Sri Ram Jetty-Khulna	518	0	0			Flyash
4	IWAI BISN Jetty-Narayanganj	909	0	0			Flyash
5	T.T.Shed-Narayanganj	910	0	0			Flyash
7	IWAI Haldia Jetty-Narayanganj	826	0	0			Flyash
8	IWAI Haldia Jetty-Khulna	439	0	0			Flyash
9	Sri Ram Jetty-Narayanganj	905	0	0			Flyash
<b>20</b>	<b>Saha Oversees Corporation</b>						
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
<b>21</b>	<b>C. Day &amp; Brothers</b>						
1	Budge Budge-Narayanganj	884	36724	53294	26449	35051	Flyash
2	Budge Budge-Khulna	497	5647	7749	2970	4571	Flyash
3	Sri Ram Jetty-Khulna	518	0	0			Flyash
4	Sri Ram Jetty-Narayanganj	905	2216	0			Flyash
5	IWAI Haldia Jetty-Mongla	426	0	0			Flyash
6	IWAI Haldia Jetty-Khulna	439	3317	655	3290	4113	Flyash
7	IWAI BISN Jetty-Narayanganj	909	2514	5239	21254	27069	Flyash
8	IWAI Haldia Jetty-Narayanganj	826	1436	61333	160101	188449	Flyash
9	T.T.Shed-Khulna	523	0	0	1190	2590	Flyash
10	T.T.Shed-Narayanganj	910	620	1394	27930		flyash, Ironfines
11	IWAI BISN Jetty - Khulna	522	0	654	2803		Flyash
12	HDC Fly Ash Jetty-Narayanganj	826	0	0			Flyash
13	HDC Fly Ash Jetty-Khulna	439	1428	1414		85743	Flyash
14	GR Jetty II- Narayanganj	909	3378	13783	72518		Flyash
15	GR Jetty II- Khulna	522			6771	7815	Fly ash
16	G.R. Jetty-2 - Mongla	509				2323.44	Rice
17	KPD, Kolkata - Narayanganj	910				1808.12	Fly ash
18	T.T.Shed-Narayanganj	910				25248	Fly ash

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

**Table No. 2.2**

Sl. No.	River/Stretch	Approximate Distance (Kms)	2017-18	2018-19	2019-20	2020-21	Cargo generally moved
1	2	3	5	6	7	8	9
<b>22</b>	<b>Fortune Cargo (India Pvt Ltd)</b>						
1	Budge Budge-Narayanganj	894/884	27197	33428	5566		Flyash
2	IWAI Haldia Jetty-Narayanganj	826	0	2133			Flyash
3	T.T.Shed-Narayanganj	910	1758	28342	9032		Flyash
4	IWAI BISN Jetty-Khulna	522	1045	0			Flyash
5	IWAI BISN Jetty-Narayanganj	909	1380	10165	2586		Flyash
6	T.T.Shed-Khulna	523	0	0			Flyash
7	Sri Ram Jetty - Narayanganj	905	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	6704	3261			Flyash
11	G.R. Jetty-II-Narayanganj	909		9816	6276		Flyash
	G.R. Jetty-II-Khulna				800		
<b>23</b>	<b>Sea Water Transport Co. Pvt Ltd</b>						
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
<b>24</b>	<b>Krishna Shipping &amp; Logistics</b>						
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	0	0			Steel Bridge Girder
6	N. S. Dock, Kolkata-Sahibganj, Jharkhand	478		244			ODC Cargo
7	G.R. Jetty-II-Khulna	522		933			3172.602 Steel Girder/Fabrication and supply of web through Girder/Steel Girder
8	Samdaghat-Manihari	14			33600		Stone Chips
9	Gramghat-Manihari	8			226600		Stone Chips
10	Rajmahal to Sahibganj	39		244			Harbour Crane
11	Hathidah - Semaria	20	...	...	...	3000	Stone chips
12	Garamghat (Sahebganj) to Manihari	6012	...	...	...	417200	Stone chips
<b>25</b>	<b>Varcel Shipping Pvt. Ltd.</b>						
1	MMT/Ro-Ro Sahibganj to Manihari	240	...	...	...	5600	Stone chips
2	Samdaghat (Sahebganj) to Manihari	966	...	...	...	31700	Stone chips
<b>26</b>	<b>Mahalakshmi Engicon Pvt. Ltd.</b>						
1	MMT/Ro-Ro Sahibganj to Manihari	90	...	...	...	2400	Stone chips
2	Samdaghat (Sahebganj) to Manihari	980	...	...	...	34500	Stone chips
<b>27</b>	<b>Jay Bajranjibali stone work</b>						
1	MMT/Ro-Ro Sahibganj to Manihari	360	...	...	...	13200	Stone chips
2	Samdaghat (Sahebganj) to Manihari	1434	...	...	...	51500	Stone chips
<b>28</b>	<b>Eastern Navigation Pvt. Ltd.</b>						
1	Samdaghat (Sahebganj) to Manihari	2010	...	...	...	67000	Stone chips
<b>29</b>	<b>Neli</b>						
1	Budge Budge-Narayanganj	884	1200	0			Flyash
2	IWAI Haldia Jetty-Narayanganj	826	1720	0	6616	8568	Flyash
3	IWAI BISN Jetty-Narayanganj	909	9394	3330	8956	21280	Flyash
4	T.T. Shed - Narayanganj	910	14876	9866	12151	22951	Flyash

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

**Table No. 2.2**

Table No. 2.2		(In tonnes)					(In tonnes)
Sl. No.	River/Stretch	Approximate Distance (Kms)	2017-18	2018-19	2019-20	2020-21	Cargo generally moved
1	2	3	5	6	7	8	9
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 BISN Jetty-Karimganj	1357	0	0			Flyash
12	T.T. Shed-Mongla	510	0	0			Flyash
13	GR Jetty II- Narayanganj	909	0	0			Flyash
14	Sri Ram Jetty- Narayanganj	905	0	0			Flyash
30	Ajbela Navigation						
1	Sri Ram Jetty-Khulna	518	0	0			Flyash
2	Sri Ram Jetty-Narayanganj	905	1712	0			Flyash
3	K.P.Dock-Khulna	523	0	0			Wheat
4	T.T.Shed-Narayanganj	910	45141	23336	2177	20366	Flyash
5	T.T.Shed-Mongla	510	0	0		1150	Maize
6	T.T.Shed-Khulna	523	3867	1075	1410		Flyash
7	HDC Fly Ash Jetty-Narayanganj	826	13565	13326		680	Flyash
8	Budge Budge-Narayanganj	884	5727	25402	8563	57811	Flyash
9	Budge Budge-Khulna	497	0	7013	3171	14000	Flyash
10	IWAI Haldia Jetty-Mongla	426	0	0		1142	Flyash
11	IWAI Haldia Jetty-Khulna	439	0	0	2116	3441	Flyash
12	IWAI Haldia Jetty-Narayanganj	836/826	8472	24270	12188	48252	Flyash
13	IWAI BISN Jetty - Narayanganj	909	737	744	2923	4434	Flyash
14	IWAI Haldia Jetty-Karimganj	1274	0	0			Flyash
15	GR Jetty II - Narayanganj	909	5734	2831	3708	11211	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		599	Flyash
19	GR Jetty II - Ashuganj				2150		
20	IWAI BISN Jetty - Khulna				692	1822	
21	KPD-Mongla				4780		
22	NSD-Mongla				743		
23	IWAI BTPS Jetty-2, Tribeni - Narayanganj	964				3237	Fly ash
24	IWAI BTPS Jetty-2, Tribeni - Mongla	564				4400	Fly ash
25	KPD, Kolkata - Narayanganj	910				6529.18	Fly ash
26	KPD, Kolkata - Mongla	510				16330.28	Project Cargo
27	KPD, Kolkata - Mongla	510				2205.28	Rice
28	KPD, Kolkata - Narayanganj	910				1040.32	Sponge Iron
31	Reach Asia						
1	Kolkatta-Jogighopa, Assam	1392	0	0			ODC Cargo
32	Neticon						
1	KP Dock- Khulna	510	0	0			Wheat
33	Duttson						
1	T.T.Shed-Narayanganj	910	7222	6309			Flyash
2	IWAI BISN Jetty-Narayanganj	909	878	545			Flyash
3	Budge Budge-Narayanganj	884	9891	32341	4784		Flyash
4	IWAI Haldia Jetty - Mongla	426	0	0			Flyash

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

**Table No. 2.2**

Sl. No.	River/Stretch	Approximate Distance (Kms)	(In tonnes)				Cargo generally moved
			2017-18	2018-19	2019-20	2020-21	
1	2	3	5	6	7	8	9
5	IWAI Haldia Jetty - Narayanganj	826	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	8934	0			Flyash
12	IWAI Haldia Jetty-Karimganj	1274	0	0			Flyash
13	Budge Budge-Khulna	497	0	2120			Flyash
14	GR Jetty II- Narayanganj	909	7178	2310			Flyash
15	HDC Fly Ash Jetty-Narayanganj	826	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
<b>34</b>	<b>Seaways Shipping &amp; Logistics Ltd.</b>						
1	KP Dock - Mongla	510	0	0			Steel Plates, Steel coils, Steel items
<b>35</b>	<b>J.D.Shipping</b>						
1	Budge Budge-Narayanganj	884	29310	59298	84167		Flyash
2	Sri Ram Jetty( Kol) - Narayanganj	905	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	2348	10231	6035	16037	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	17155	22106	34807	2348	Flyash
10	IWAI BISN Jetty - Narayanganj	909	9700	2528	3670		Flyash
11	HDC Fly Ash Jetty-Narayanganj	826	0	72820	73890	711	Flyash
12	Karimganj - Ashuganj	320	210	0			Lime Stone
13	G.R. Jetty II - Narayanganj	909	5093	0	5159	3674	Flyash
14	Budge Budge-Khulna	497		1601	3824	4220	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
21	GR Jetty II- Khulna				11931	2275	
22	IWAI Haldia Jetty - Khulna				680	882	
23	NSD- Mongla				2670		
24	Budge Budge - Narayanganj	884				5477	Fly ash
25	G.R. Jetty-2 - Khulna	522				1102	WH Beam
<b>36</b>	<b>Ganga Water Transport</b>						
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
<b>37</b>	<b>Bertling Logistic India Pvt.Ltd.</b>						
1	Haldia-Balia	1028	0	0			ODC Cargo
2	Kolkata - Balia	923	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**

		(In tonnes)					(In tonnes)
Sl. No.	River/Stretch	Approximate Distance (Kms)	2017-18	2018-19	2019-20	2020-21	Cargo generally moved
1	2	3	5	6	7	8	9
<b>38</b>	<b>Venketesh Logistics</b>						
1	Haldia-Bhaktiarpur	885	0	0			ODC Cargo
<b>39</b>	<b>All Cargo Logistics Ltd.</b>						
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	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	0	0			ODC Cargo
11	Kolkatta- Bhaktiarpur	780	0	0			ODC Cargo
12	T.T. Shed - Silchar	1438	350	0			ODC Cargo
<b>40</b>	<b>Prism Logistics Pvt.Ltd.</b>						
1	Haldia-Allahabad	1512	0	0			ODC Cargo
2	Kolaghat - Silghat, Assam	1686				456	Over Dimensional Cargo
3	Kolaghat - Mongla	485				203	Over Dimensional Cargo
4	Budge Budge - Mongla	484				1116.25	Over Dimensional Cargo
5	Budge Budge - Khulna	484				355.98	Over Dimensional Cargo
<b>41</b>	<b>Safehand Logistics</b>						
1	IWAI BISN Jetty - Karimganj (Badarpur)	1357	0	0			Flyash
2	Budge Budge - Narayanganj	884	4095	7581	7508	10851	Flyash
3	IWAI Haldia Jetty - Narayanganj	826	2502	4172	921		Flyash
4	IWAI Haldia Jetty -Khulna	439	0	781			Flyash
5	IWAI BISN Jetty - Narayanganj	909	2819	0	1088		Flyash
6	Sri Ram Jetty-Narayanganj	905	0	0			Flyash
7	T. T. Shed-Narayanganj	910	0	2273	948	1771	Flyash
8	IWAI Haldia Jetty -Karimganj	1274	0	0			Flyash
9	KPD-Khulna	523	0	0			Steel Plates
10	Budge Budge - khulna	497	0	780			Flyash
	GR Jetty-2-Khulna				775		
	GR Jetty-2-Narayanganj				1992		
<b>42</b>	<b>Shun Shing India Private Ltd.</b>						
1	Budge Budge - Narayanganj	884	38929	17158	10786	5616	Flyash
2	Budge Budge - khulna	497	37676	59608	44108	45281	Flyash
3	IWAI BISN Jetty- Narayanganj	909	1136	5341	1433	7176	Flyash
4	IWAI BISN Jetty- Khulna	522	868	5338	8274	6210	Flyash
5	Sri Ram Jetty - Khulna	518	1681	0			Flyash
6	T.T.Shed-Khulna	523	3909	653	23690	3113	Flyash
7	GR Jetty II- Khulna	522	4886	5545	5174	9058	Flyash
8	GR Jetty II- Narayanganj	909	6496	2588	1295	1838	Flyash
9	Sri Ram Jetty-Narayanganj	905	645	0			Flyash
10	T. T. Shed-Narayanganj	910	6531	5777	7265	715	Flyash
<b>43</b>	<b>Jindal ITF Ltd.</b>						
1	Sagar - Farakka	540	160262	0			Coal
<b>39</b>	<b>AFS Logistics Pvt. Ltd.</b>						
1	AWAI Haldia Jetty - Fatuha	910	0	0			Fertilizers
2	Fatuha - Kolkatta	805	0	0			Fertilizers
<b>44</b>	<b>Lee &amp; Muirhead Pvt. Ltd.</b>						
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**

<b>Table No. 2.2</b>		(In tonnes)				(In tonnes)	
Sl. No.	River/Stretch	Approximate Distance (Kms)	2017-18	2018-19	2019-20	2020-21	Cargo generally moved
1	2	3	5	6	7	8	9
<b>45</b>	<b>Boxco India Pvt. Ltd.</b>						
1	Haldia - Geonkhali	43	0	0			ODC Cargo
2	KPD - Jogigopha	1432	809.6	0			ODC Cargo
<b>46</b>	<b>K K Shipping</b>						
1	T.T. Shed - Narayanganj	910	8472	21561	22809	31226	Flyash
2	Budge Budge - Narayanganj	884	0	0			Flyash
3	IWAI Haldia Jetty - Narayanganj	826	0	2754	4304	45248	Flyash
4	IWAI BISN Jetty - Narayanganj	909	4560	16435	14619	54732	Flyash
5	Sri Ram Jetty-Narayanganj	905	0	0			Flyash
6	IWAI BISN Jetty- Khulna	522	0	0	4383	7931	Flyash
7	T.T.Shed-Khulna	523	830	0	10314	14031	Flyash
8	IWAI BISN Jetty- Mongla	509	0	3136			Flyash
9	T.T.Shed-Mongla	510	0	0			Flyash
10	IWAI Haldia Jetty - Mongla	426	0	0			
11	Budge Budge - Khulna	497	960	0			Flyash
12	IWAI Haldia Jetty - Khulna	439	1140	0	1045	5731	Flyash
13	T.T.Shed-Mongla	510		1140			Flyash
<b>47</b>	<b>Tetron Merchandise</b>						
1	IWAI BISN Jetty- Khulna	522	4740	4390	4313	808	Flyash
2	Budge Budge - Khulna	497	10049	10097	20891	16369	Flyash
3	IWAI BISN Jetty - Narayanganj	909	0	0			
4	G.R. Jetty II - Narayanganj	909	2005	2968	2490	13461	Flyash
5	G.R. Jetty II - Khulna	522	7772	43576	24078	3305	Flyash
6	BTPS Jetty- Khulna				13078		
7	Budge Budge - Narayanganj				1525		
8	IWAI Haldia Jetty-Khulna				2634		
9	IWAI Haldia Jetty-Narayanganj				7118		
10	Budge Budge - Narayanganj	884				7589	Fly ash
11	IWAI BTPS Jetty-2, Tribeni - Khulna	577				92935	Fly ash
12	IWAI Haldia Jetty - Narayanganj	826				24175	Fly ash
13	IWAI Haldia Jetty - Khulna	439				4335	Fly ash
<b>48</b>	<b>Transcoast Trading Pvt. Ltd.</b>						
1	Budge Budge - Narayanganj	884	2948	1080			Flyash
2	IWAI Haldia Jetty - Narayanganj	826	4442	10267	4134	6564	Flyash
3	IWAI BISN Jetty - Narayanganj	909	20165	8490	10286	5652	Flyash
4	T.T.Shed-Narayanganj	910	12037	15711	6900	1890	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	8716	0			Flyash
9	Khulna-NSD Kolkatta	521	0	0			Strand Jack with Accessories
10	KPD Kolkatta-Ashuganj	1038	0	0	5241		Rice, TMT Bars, & Steel Sheets, Iron Pipe & Plates
11	KPD Kolkatta-Mongla	510	0	0			Parallel Flange Universal Beams & ISMC Channel & Equal Angles, Steel
12	KPD Kolkatta-Narayanganj	910	0	0	5918		Steel Iron Plates
13	NSD Kolkatta-Mongla	508	2093.76	1696			Rice, Steel Materials
14	Sri Ram Jetty-Narayanganj	905	0	0			Flyash
15	HDC - Narayanganj	826	761	0			Contaners (Denim fabrics)
16	HDC - Mongla	426	848.77	0			HR Plate
17	KPD Kolkatta-Khulna	523		933			Fabricated Steel Materials
<b>49</b>	<b>Hindustan Natural Glass &amp; Industries Ltd.</b>						
1	Rajmahal-Kolkata	443	0	0			Slica Sand, Cement
<b>50</b>	<b>M/s. Spring Professional Services Pvt. Ltd.</b>						
1	Haldia-Patna	920	0	0			Cement
2	Varanasi-GR Jetty 2	1171	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		(In tonnes)					(In tonnes)
Sl. No.	River/Stretch	Approximate Distance (Kms)	2017-18	2018-19	2019-20	2020-21	Cargo generally moved
1	2	3	5	6	7	8	9
<b>51</b>	<b>M/s. Srimaa Import &amp; Export Pvt. Ltd.</b>						
1	HDC Haldia-Mongla	426	0	0			Steel Coils and Plates
2	HDC Haldia-Narayanganj	826	0	0			Steel coils
3	HDC Haldia-Pangaon	842	0	0			20 teu container (35 no)
4	KPD Kolkata- Mawa via Narayanganj	910	0	0			Stone / Pebbles
5	KPD Kolkata- Mongla	510	0	0			Steel Plates
6	KPD Kolkata- Narayanganj	910	0	0			Pakur Crushed Stone / Pebbles
<b>52</b>	<b>Mags Impex Pvt. Ltd.</b>						
1	T.T.Shed-Narayanganj	910	0	0			Flyash
<b>53</b>	<b>H.P Shipping Lines.</b>						
1	T.T. Shed - Narayanganj	910	33297	12685	14886	7766	Flyash
2	T.T. Shed - Khulna				665		
3	GR Jetty2-Narayanganj				712	2272	Fly ash
4	Budge Budge - Narayanganj	884				1126	Fly ash
<b>54</b>	<b>Pioneer Shipping Lines</b>						
1	T.T. Shed - Narayanganj	910	1998	0			Flyash
2	IWAI BISN Jetty- Narayanganj	909	1426	0			Flyash
3	Budge Budge- Narayanganj	884	717	0			Flyash
4	G.R.Jetty 2- Narayanganj	909	2107	0			Flyash
<b>55</b>	<b>Rain Maker</b>						
1	IWAI Haldia Jetty- Narayanganj	826	8837	34902	42924	43812	Flyash
2	Budge Budge- Narayanganj	884	3087	3077	4241	2902	Flyash
3	G.R.Jetty 2- Narayanganj	909	4264	33553	28200	21433	Flyash
4	IWAI BISN Jetty- Narayanganj	909	696	2971	28131	27967	Flyash
5	Budge Budge- Khulna	497		1729	2204		Flyash
6	IWAI BISN Jetty- Khulna	522		875	8075	8404	Flyash
7	T.T. Shed - Khulna	523		1392	1790	1740	Flyash
8	HDC Fly Ash Jetty- Narayanganj	826		1154		2800	Flyash
9	T.T. Shed - Narayanganj	910		21328	27907	52656	Flyash
10	GR Jetty2- Khulna				3762	870	Fly ash
11	IWAI Haldia Jetty- Khulna				8770	5398	
<b>56</b>	<b>M/s Rajesh Kumar</b>						
1	Samdaghat (Sahebganj) to Manihari & vice versa	14	237,300	506,950			Stone Chips
<b>57</b>	<b>M/s. Rajesh Auto Merchandise Pvt. Ltd.*</b>						
1	Kolkata-Manik Chak	436		5729			Coal
2	Manglahat-Begusarai	233			110		ODC
<b>58</b>	<b>M/s. M. K. Shipping*</b>						
1	Budge Budge- Narayanganj	884		1065			Fly Ash
<b>59</b>	<b>M/s. Vinayak Shipping*</b>						
1	Budge Budge- Narayanganj	884	...	2540		2231	Fly Ash
2	Budge Budge - Khulna	497				3322	Fly Ash
3	T.T. Shed - Narayanganj	910	...	865			Fly Ash
4	T.T. Shed - Khulna	523				1020	Fly Ash
5	IWAI BISN jetty-Narayanganj				908		
6	IWAI Haldia jetty-Narayanganj				909	1100	
7	IWAI Haldia Jetty - Khulna	439				2212	Fly Ash
8	G.R. Jetty-2 - Narayanganj	909				937	Fly Ash
<b>60</b>	<b>M/s Sushe Marine Services Pvt. Ltd.*</b>						
1	Samdaghat (Sahebganj) to Manihari & vice versa	14	...	105,000	100,200		Stone chips

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

Table No. 2.2		(In tonnes)					(In tonnes)
Sl. No.	River/Stretch	Approximate Distance (Kms)	2017-18	2018-19	2019-20	2020-21	Cargo generally moved
1	2	3	5	6	7	8	9
<b>61</b>	<b>M/s Haldia Nirman Project Pvt. Ltd.*</b>						
1	Samdaghat (Sahebganj) to Manihari & vice versa	14	...	67,200			Stone chips
2	Sahebganj to Tintanga	69	...	200			Stone chips
3	Sahebganj to Kahalgaoan	64	...	200			Stone chips
<b>62</b>	<b>M/s. Abhi Priya Ventures</b>						
1	Budge Budge-Khulna	497			1069		Fly Ash
2	Budge Budge-Narayanganj	884			30355	100056	Fly Ash
3	G.R. Jetty-2- Khulna	522			8118	2455	Fly Ash
4	G.R. Jetty-2- Narayanganj	909			17106	59439	Fly Ash
5	Haldia HDC Jetty- Narayanganj	826			1795	77597	Fly Ash
6	HDC Fly Ash Jetty, Haldia- Narayanganj	826			15032		Fly Ash
7	HDC Fly Ash Jetty, Haldia - Khulna	439				648	Fly Ash
8	IWAI BISN Jetty- Khulna	522			1740		Fly Ash
9	IWAI BISN Jetty- Mongla	509			680		Fly Ash
10	IWAI BISN Jetty - Narayanganj	909				8210	Fly Ash
11	IWAI Haldia Jetty- Khulna	439			4056	1198	Fly Ash
12	IWAI Haldia Jetty- Narayanganj	826			25998	71234	Fly Ash
13	T.T. Shed- Mongla	510			718		Fly Ash
14	T.T. Shed- Narayanganj	910			5731	44738	Fly Ash
15	KPD, Kolkata - Mongla	510				3458.08	Rice
16	G.R. Jetty-2- Narayanganj	909				1094.6	Sponge Iron & Quartzite Powder
17	G.R. Jetty-2- Narayanganj	909				661.28	Prime Mild Steel Non Alloy Hot Rolled Plates
<b>63</b>	<b>Assetment Marine &amp; Traders Pvt. Ltd.</b>						
1	IWAI Haldia jetty- Narayanganj	826			1099	10974	Fly Ash
2	IWAI BISN Jetty - Narayanganj	909				510	Fly Ash
3	T.T. Shed - Narayanganj	910				924	Fly Ash
<b>64</b>	<b>M/s. Fortune Transport</b>						
1	Budge Budge- Narayanganj	884			14004	11011	Fly Ash
2	G.R. Jetty-2- Khulna	522			1834	1560	Fly Ash
3	G.R. Jetty-2- Narayanganj	909			6108	9539	Fly Ash
4	IWAI BISN Jetty-Khulna	522			825		Fly Ash
5	IWAI BISN Jetty- Narayanganj	909			10120	8392	Fly Ash
6	T.T. Shed-Narayanganj	910			13408	10967	Fly Ash
7	IWAI Haldia Jetty - Narayanganj	826				2203	Fly Ash
8	KPD, Kolkata - Narayanganj	910				701	Fly Ash
<b>65</b>	<b>M/s. IA3 Enterprise</b>						
1	Budge Budge-Narayanganj	884			9054	12795	Fly Ash
2	G.R. Jetty-2-Narayanganj	909			2250	1200	Fly Ash
3	HDC Fly Ash Jetty, Haldia-Narayanganj	826			1250		Fly Ash
4	IWAI BISN Jetty-Narayanganj	909			1290	1152	Fly Ash
5	IWAI Haldia Jetty-Narayanganj	826			9234	11780	Fly Ash
6	T.T. Shed-Narayanganj	910			4283	2460	Fly Ash
7	Kolkata - Khulna	523				1451	Stone Boulder
<b>66</b>	<b>M/s. Intel International Logistics</b>						
1	BTPS Jetty, Tribeni-Khulna	577			1800		Fly Ash
2	G.R. Jetty-2-Khulna	522			7028	5495	Fly Ash
3	Budge Budge - Khulna	497				3596	Fly Ash
4	T.T. Shed - Khulna	523				2037	Fly Ash
5	G.R. Jetty-2 - Narayanganj	910				2154	Stone Chips

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

Table No. 2.2		(In tonnes)					(In tonnes)
Sl. No.	River/Stretch	Approximate Distance (Kms)	2017-18	2018-19	2019-20	2020-21	Cargo generally moved
1	2	3	5	6	7	8	9
<b>67</b>	<b>M/s. Ishan Enterprise</b>						
1	Budge Budge-Narayanganj	884			5533	16328	Fly Ash
2	G.R. Jetty-2-Narayanganj	909			3279	3045	Fly Ash
3	IWAI BISN Jetty-Narayanganj	909			2721	8982	Fly Ash
4	IWAI Haldia Jetty-Narayanganj	826			930	10665	Fly Ash
5	IWAI BISN Jetty - Khulna	522				808	Fly Ash
6	T.T. Shed-Narayanganj	910				1911	Fly Ash
<b>68</b>	<b>M/s. Lift &amp; Shift India Pvt. Ltd</b>						
1	Diamond Harbour-Semaria	789			420.508	1104.579	LT Shift Converter & HT Shift Converter, Bottom Section of CO2
2	Diamond Harbour-Semaria	789			640.66	389	Urea Reactor
3	Diamond Harbour-Sahebganj	554			47	239.519	LT Shift Converter & HT Shift Converter
4	Diamond Harbour-Sahebganj	554			275.31		Secondary Reformer Main Equipment & Flare KO Drum
5	Diamond Harbour-Semaria	789			275.31		Secondary Reformer Main Equipment & Flare KO Drum
6	Kolkata - Sahebganj	478				389.121	1. Ammonia Receiver Vessel; 2nd Vacuum separator and Holder;
7	Kolkata - Munger	653				388.991	1. Ammonia Receiver Vessel; 2nd Vacuum separator and Holder;
<b>69</b>	<b>M/s. Maritime Logistics</b>						
1	KP Dock, Kolkata-Mongla	510			4260.408		Component of Steam Turbine & Auxiliaries, Turbo Generator
2	NS Dock, Kolkata-Mongla	508			2036		Component of Steam Turbine & Auxiliaries, Turbo Generator
3	G.R. Jetty-2-Mongla	509			1736.35		Steam Turbine & Auxiliaries and Steel Cargo
4	Kolkata-Narayanganj	910			1023		Stone Chips
<b>70</b>	<b>M/s. Tidal Marine Services</b>						
1	Budge Budge - Khulna	497				2618	Fly Ash
2	Budge Budge-Narayanganj	884			4666	970	Fly Ash
3	G.R. Jetty-2-Khulna	522			680		Fly Ash
4	IWAI Haldia Jetty-Khulna	439			2414	1420	Fly Ash
5	IWAI Haldia Jetty-Narayanganj	826			8918	1696	Fly Ash
6	T.T. Shed-Khulna	523			1450	1630	Fly Ash
7	IWAI Haldia Jetty-Khulna	439			724		Steam Coal
8	IWAI Haldia Jetty-Narayanganj	826			806		Steam Coal
<b>71</b>	<b>Daewoo-L&amp;T</b>						
	Gaighat-Raghopur	10			2809		TMT bars and other steel structures
<b>72</b>	<b>APSEZ Ltd</b>						
	Sahibganj MMT- Karaqola	43			7950		Stone chips
<b>73</b>	<b>Adani Wilmar</b>						
	Manglahat-Sahibganj	39			1300		Edible Oil
<b>74</b>	<b>Suman Forwarding Agency</b>						
	Samdaghat-Manihari	14			2160		Stone Chips
<b>75</b>	<b>Channel's India</b>						
	T.T. Shed, Kolkata - Narayanganj	910				1248	Fly Ash

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

Table No. 2.2		(In tonnes)					(In tonnes)
Sl. No.	River/Stretch	Approximate Distance (Kms)	2017-18	2018-19	2019-20	2020-21	Cargo generally moved
1	2	3	5	6	7	8	9
<b>76</b>	<b>Inflow Waterways</b>						
1	Budge Budge - Khulna	497				16441	Fly Ash
2	Budge Budge - Narayanganj	884				41442	Fly Ash
3	G.R. Jetty-2 - Khulna	522				765	Fly Ash
4	G.R. Jetty-2 - Narayanganj	909				1540	Fly Ash
5	HDC Fly Ash Jetty, Haldia - Narayanganj	826				16920	Fly Ash
6	IWAI BSN Jetty - Khulna	522				792	Fly Ash
7	IWAI BSN Jetty - Narayanganj	909				1024	Fly Ash
8	IWAI Haldia Jetty - Narayanganj	826				8678	Fly Ash
9	T.T. Shed - Khulna	523				865	Fly Ash
10	T.T. Shed - Narayanganj	910				1177	Fly Ash
<b>77</b>	<b>Pacific Navigation Co.</b>						
1	IWAI BTPS Jetty-2, Tribeni - Khulna	577				10333	Fly Ash
2	G.R. Jetty-2 - Khulna	522				1875	Fly Ash
3	T.T. Shed - Khulna	523				3748	Fly Ash
<b>78</b>	<b>Pavanputra Shipping &amp; Logistics</b>						
	KPD, Kolkata - Mongla	510				1050	Rice
<b>79</b>	<b>Siddhivinayaka Shipping &amp; Logistics</b>						
1	Budge Budge - Narayanganj	884				3898	Fly Ash
2	Budge Budge - Khulna	497				2670	Fly Ash
3	G.R. Jetty-2 - Narayanganj	909				700	Fly Ash
4	G.R. Jetty-2 - Khulna	522				4501	Fly Ash
5	IWAI Haldia Jetty - Narayanganj	826				4792	Fly Ash
6	T.T. Shed - Narayanganj	910				1316	Fly Ash
<b>80</b>	<b>ABC India Limited (Bharat Heavy Electricals Ltd.)</b>						
	Kolaghat - Mongla	485				1552.412	Over Dimensional Cargo
<b>81</b>	<b>Bollere Logistics India Limited</b>						
1	T.T. Shed - Mongla	510				80.6	Over Dimensional Cargo
2	T.T. Shed - Narayanganj	910				53.16	Over Dimensional Cargo

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

Table No. 2.2		(In tonnes)					(In tonnes)
Sl. No.	River/Stretch	Approximate Distance (Kms)	2017-18	2018-19	2019-20	2020-21	Cargo generally moved
1	2	3	5	6	7	8	9
<b>82</b>	<b>IWAI Vessels</b>						
1	Rajmahal -Patna	368					Cement
2	Samdhaghatj-Manihari				...		Stone chips
3	Samdaghat-Patna				...		Stonechips
4	Kolaghat-Bhagalpur (Dalmia Bharti Cement)	672	240		...		Cement
5	Kahalgaon-Kolaghat (Dalmia Bharati Cement)	647	300		...		Bagged Flyash
6	Putimari Jetty-G.R. Jetty-2 (Desha International)	384.5			300		Stone Chips
7	Rajmahal-G.R. Jetty-2, Kolkata (RQS Mining Pvt. Ltd.)	443			1214		High Silica Sand
8	BTPS Jetty, Tribeni-Falta (IFB Agro Industries Ltd)	110			260		Broken Rice
9	Kahalgaon-Pandu, Assam (M/s. Star Cement Ltd.)	2123			1227		Fly Ash
10	HDC-Dhubri(M/s. Fuel Sources (India) Pvt. Ltd.)	1266			924		Steam Coal
	G.R. Jetty-2, Kolkata - Patna (Inland & Coastal Shipping Limited)	815				169	06 loaded container & 10 MTY container
<b>83</b>	<b>Other vessels in Patna region</b>						
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
<b>84</b>	<b>M/s. IA3 Enterprise (Shipper / Exporter: Virtue International)</b>						
	Pakur Jetty, Putimari - Kolkata (ultimate destination Khulna, Bangladesh)	383.5				1451	Stone Boulder
<b>85</b>	<b>Intel International Logistics (Shipper/Exporter: Lockgate Shipping Pvt Ltd)</b>						
	Pakur Jetty, Putimari - Kolkata (ultimate destination Narayanganj, Bangladesh)	383.5				2154	Stone Chips
<b>Sub Total (D)</b>		-	<b>1280</b>	<b>4145</b>	<b>0</b>	<b>5,119,354.87</b>	

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

(In tonnes)							(In tonnes)
Sl. No.	River/Stretch	Approximate Distance (Kms)	2017-18	2018-19	2019-20	2020-21	Cargo generally moved
1	2	3	5	6	7	8	9
<b>E</b>	<b>KOPT</b>						
1	Sagar- KPD	146	987738	1083000	1955000	1255000	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	678000	1708000		1649000	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, Limestone,Cooking oil
7	KPD- Sagar	146	4000	0		31000	Iron & Steel, Rice, Wheat
8	KPD-Diamond Harbour	78	6000	0		7000	Rice & Wheat
<b>Sub Total (E)</b>			<b>1675738</b>	<b>2791000</b>	<b>1955000</b>	<b>2942000</b>	
<b>F</b>	<b>Traffic from River Sone to NW-1</b>	27			800000	0	Stone Chips
<b>G</b>	<b>Unorganized Ro-Ro movements in West Bengal</b>	0.5			2138295	1144220	Passengers and household goods
<b>Total (NW-I) (A+B+C+D+ E+F+G)</b>			<b>5479362</b>	<b>7349330</b>	<b>9112397</b>	<b>9205965</b>	

**Details of Cargo Moved on National Waterways (National Waterway No.86)- RUPNARAYAN**

Sl. No.	River/Stretch	Approximate Distance (Kms)	2017-18	2018-19	2019-20	2020-21	
1	2	3	5	6	7	8	8
<b>A</b>	<b>Geonkhali - Kolkghat</b>	<b>37</b>				<b>387</b>	Urea Reactor (Originated from Diamond Harbour)
<b>Sub Total</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>387</b>	

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

**Table No. 2.2**

Sl. No.	River/Stretch	Approximate Distance (Kms)	(In tonnes)				(In tonnes)
			2017-18	2018-19	2019-20	2020-21	Cargo generally moved
1	2	3	5	6	7	8	8
<b>A</b>	<b>Organised Cargo</b>	32	2,232.8	5,123	6553	64274	Transformers of power grid, Transmission equipments, MVA Auto Transformers, Crushed Stone Chips, Stone Boulders, Coal, Container Cargo, Cement Bags, Rice ,Goods, Passengers,Bicycle, bikes, live stock
<b>B</b>	<b>IWTD Assam</b>		2,598,994	2,369,814			
<b>C</b>	<b>Unorganised Sector</b>	20	560,924.2	496,880	386214	242821	
<b>Sub Total (A+B+C)</b>			<b>3,162,151</b>	<b>2,871,817</b>	<b>392,767</b>	<b>307095</b>	
<b>Total (NW-II)(A+B+C)</b>			<b>3,162,151</b>	<b>2,871,817</b>	<b>392,767</b>	<b>307095</b>	

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

Sl. No.	River/Stretch	Approximate Distance (Kms)	(In tonnes)				(In tonnes)
			2017-18	2018-19	2019-20	2020-21	Cargo generally moved
1	2	3	5	6	7	8	8
<b>A.</b>	<b>CHAMPAKARA CANAL</b>						
<b>1</b>	<b>KSINC</b>						
1	Cochin Port-FACT-CD	21.5		-			Raw Sulphur, Rock Phosphate & Phosphoric Acid etc..
2	Q10 Berth-CPT-Fact, CD	21	177044.00	138,913	95,260.00	209834	Sulpher,Rock Phosphate,Phosphoric Acid
3	BPCL Irumbanam-Ship Bunkring	16		-			Furnace Oil
4	FACT(Ammonia jetty)-FACT CD	21			85,868		Sulpher,Rock Phosphate,Phosphoric Acid
5	Q10 Berth-CPT-Fact, UD						
<b>2</b>	<b>LOTS Shipping &amp; Trading</b>						
1	Cochin Port-FACT-CD	21.5					Raw Sulphur, Rock Phosphate & Phosphoric Acid & Stone aggregates
2	Q10 Berth-CPT-Fact, CD	21	49242.00	118,067	103,379	143408	Phosphoric Acid,Sulphur,Rock Phosphate
3	BPCL Irumbanam-Fact, PD (dist.in Ch. Canal)	16.5					Furnace Oil
4	Bolgatty to W. Island	3.7					Various commodities in containers
5	Q10 Berth-CPT-Fact, UD						
<b>3</b>	<b>Kerala Backwater Navigation</b>						
1	Cochin Port -FACT CD	21.5/27					Rock Phosphate, Sulphur, LAG
2	FACT,PD- FACT, CD	21	36,864		51,200	45750	LAG
3	FACT , Ammonia jetty- FACT, CD	27			14,784		LAG
4	FACT , Ammonia jetty- FACT, PD	20					LAG
5	FACT , Ammonia jetty- FACT, PD( via mattancherry channel)	22	12,762				
6	W. Island ammonia jetty to FACT(CD)	22		57,216		20547	LAG
<b>4</b>	<b>FACT Ltd.*</b>						
1	W. Island ammonia jetty to FACT(CD)	22		17,560		8356	LAG
2	FACT , Ammonia jetty- FACT, CD	27			14,826		LAG
3	FACT,PD- FACT, CD	21			50,304	46111	LAG
<b>5</b>	<b>Tisha Navigation Inc.</b>						
1	Kakanadu Terminal -Sea	21			5,054	3381	LIQUID EFFLUENT

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

**Table No. 2.2**

Sl. No.	River/Stretch	Approximate Distance (Kms)	(In tonnes)				(In tonnes)
			2017-18	2018-19	2019-20	2020-21	Cargo generally moved
1	2	3	5	6	7	8	8
<b>6</b>	<b>Unique Bunkers and Marine Services</b>						
1	FINE ARTS JETTY TO OUTER SEA	4				260	LSHFHSD
2	FINE ARTS JETTY TO OUTER SEA	4				7,049	FUEL OIL
3	FINE ARTS JETTY TO OUTER SEA	4				750	VLSFO
4	FINE ARTS JETTY TO Q4 BETRH	4				200	VLSFO
5	FINE ARTS JETTY TO COCHIN PORT	4				6,847	VLSFO
6	FINE ARTS JETTY TO COCHIN PORT	4				630	FUEL OIL
7	FINE ARTS JETTY TO COCHIN PORT	4				3,009	HSFO
<b>7</b>	<b>COCHIN BUNKERS</b>						
1	IRUMBANAM TO COCHIN PORT	20				4,050	FUEL OIL
2	IRUMBANAM TO OUTER SEA	20				1,646	FUEL OIL
3	IRUMBANAM TO COT	17				325	FUEL OIL
4	IRUMBANAM TO Q5	18				96	FUEL OIL
5	IRUMBANAM TO Q6	18				70	FUEL OIL
6	IRUMBANAM TO Q4	21				28	FUEL OIL
7	IRUMBANAM TO Q8	17				59	FUEL OIL
8	IRUMBANAM TO Q9	17				49	FUEL OIL
9	IRUMBANAM TO COCHIN SHIPYARD LTD	15				236	FUEL OIL
10	IRUMBANAM TO NTB	17				78	FUEL OIL
11	IRUMBANAM TO NCB	21				59	FUEL OIL
<b>8</b>	<b>BHARAT CHEMICALS</b>						
1	FINE ARTS JETTY TO COCHIN PORT	4				2,152	VLSFO
2	FINE ARTS JETTY TO OUTER SEA	4				3,173	VLSFO
<b>9</b>	<b>SHINY SHIPPING</b>						
1	FINE ARTS JETTY TO OUTER SEA	4				2,488	VLSFO
2	FINE ARTS JETTY TO Q1 BETRH	6				448	VLSFO
3	FINE ARTS JETTY TO CSL	1				23	VLSFO
4	FINE ARTS JETTY TO ICTT	4				3,747	VLSFO
5	FINE ARTS JETTY TO Q9 BETRH	1				200	VLSFO
6	FINE ARTS JETTY TO Q6 BETRH	2				196	VLSFO
7	FINE ARTS JETTY TO Q5 BETRH	2				217	VLSFO
8	SCB TO Q6	4				49	VLSFO
9	SCB TO Q5	4				159	VLSFO
10	SCB TO Q1	1				240	VLSFO
11	SCB TO ICTT	3				4,326	VLSFO
12	SCB TO BTP	1				745	VLSFO
13	SCB TO OUTER SEA	3				1,153	VLSFO
14	BTP TO OUTER SEA	2				390	VLSFO
15	BTP ICTT	2				629	VLSFO
16	NCB TO BTP	1				199	VLSFO
17	NCB TO Q6	4				198	VLSFO
18	NCB TO Q5	3				283	VLSFO
19	NCB TO ICTT	1				3,946	VLSFO
20	NCB TO Q1	1				423	VLSFO
21	NCB TO Q10	4				638	VLSFO
22	NCB TO OUTER SEA	2				1,297	VLSFO
23	NCB TO CSL	1				31	VLSFO
24	Q4 TO Q5	3				49	VLSFO
25	Q1 TO ICTT	3				1,499	VLSFO
26	Q1 TO OUTER SEA	3				538	VLSFO
27	Q1 TO Q6	4				100	VLSFO
28	Q1 TO Q5	4				55	VLSFO
29	Q1 TO BTP	1				200	VLSFO
<b>Sub Total</b>			<b>275,912</b>	<b>331,756</b>	<b>420,675</b>	<b>532627</b>	
<b>B.</b>	<b>UDYOGMANDAL CANAL</b>						
<b>1</b>	<b>LOTS Shipping &amp; Trading*</b>						
1	Cochin Port FACT-UD	20					Zibframe, Sulphur, Furnance oil, Zinc

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

			(In tonnes)				(In tonnes)
Table No. 2.2	River/Stretch	Approximate Distance (Kms)	2017-18	2018-19	2019-20	2020-21	Cargo generally moved
1	2	3	5	6	7	8	8
2	BPCL Irumbanam- FACT PD	11					Furnace Oil
3	Q10 CPT-Fact, UD	20	57,998	29,403	15,993	26770	Phosphoric Acid, Sulphur
4	Q6 Berth CPT-Binani Zinc Ltd.	22					Zinc.
5	Q5 Berth CPT-Binani Zinc Ltd.	22					Zinc.
6	South Coal Berth-Q10 Berth CPT	6					Furnace Oil
7	South Coal Berth-Quter Roads	3/2					Furnace Oil
8	SCB-ICTT	4					Furnace Oil
9	Willinbgdon island- Bolgaty-Bolgaty Williangdon Island	3.7	42860				various commodities in container
10	Willinbgdon island						
11	Q10 CPT-Fact-CD	20			167		Phosphoric Acid
2	KSINC*						
1	Cochin Port-FACT UD	21					Rock Phosphate , Sulphur, Phosphoric Acid
2	Q10 Berth, CPT-Fact UD	20	23612	3590	405		Phosphoric Acid, sulphur
3	Ammonia jetty (w. Island) - FACT-CD				203		Phosphoric Acid
4	RO-RO SERVICE BETWEEN BOLGATTY TO WILLINGTON ISLAND	3.7				77042	VARIOUS COMMODITIES IN CONTAINERS, CARS BIKES, TWO WHEELERS, LCV etc.
3	Kerala Back Water Navigation						
1	Fact ,PD - FACT, CD	14.5			51,200		Sulphur, Phosphoric Acid, LAG
2	Fact ,CD - FACT, PD	14.5					Lag
3	Ammonia jetty (w. Island) - FACT- PD	20	23977	12264	1,536	192	Lag
4	Fact ,PD - FACT, CD	14.5				48000	Lag
4	Logos Agencies						
	Aluva Terminal-Sea	23.5					Liquid Effluent
5	Amrok Industrial & Investments						
	Aluva Terminal-Sea	23.5					Furnance oil
							Furnance oil
6	Cochin Bunkers						
1	BPCL, Irumbanam - Fact PD	27.5					Liquid effluent
2	IOC( BPT berth) - Fact PD	17					Liquid effluent
7	Tisha Navigation Inc.						
1	Aluva Terminal - Sea						Liquid effluent
2	Bolgatty Terminal - Sea	6	2654				Liquid Effluent
3	Kakanadu Terminal -Sea	21	976	3660			Liquid Effluent
8	FACT Ltd.*						
1	W. Island ammonia jetty to FACT(CD)	20		39,392			LAG
2	W. Island ammonia jetty to FACT-PD	14.5			5,568		LAG
3	FACT,PD-FACT,CD				50,304	49951	LAG
Sub Total			152077	88309	125376	201955	

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

**Table No. 2.2**

Table No. 2.2			(In tonnes)				(In tonnes)
Sl. No.	River/Stretch	Approximate Distance (Kms)	2017-18	2018-19	2019-20	2020-21	Cargo generally moved
1	2	3	5	6	7	8	8
C.	THE WEST COASTAL CANAL						
1	KSINC Ltd*. Fine Arts Jetty- Vypeen ErnaKulum terminal-Cochin port	4 5		0		0	Potable water POL(Bunkering to Ship)
2	Travancore Cements Ltd. Vaikom- Chitramangalam	20		0		0	Lime shell with clay & other impurities
Sub Total			0	0	0	0	
D.	NW-3 & 9 **						
	ICTT VALLARPADAM TO KOTTAYAM PORT	75		247		0	TRIAL RUN OF NEWSPRINT
Sub Total			0	247	0	0	
Total (NW-III) (A+B+C+D)			427989	420312	546051	734582	
Total Cargo Moved on National Waterways (NW-I+NW-II+NW-III+NW86)							
GRAND TOTAL (NW-I+NW-II+NW-III+NW-86))			9,069,502	10,641,458	10,051,215	10,248,029	

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 2021)

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		
1	Andhra Pradesh	2019	-	-	-	-	-	-	-	-	-	-	-		
		2020	-	-	-	-	-	-	-	-	-	-	-		
		2021	-	-	-	-	-	-	-	-	-	-	-		
2	Assam	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	
		2021	0	0	159	6	165	15	-	-	76	-	91	256	
3	Bihar	2019	1	19*	74*	6	100	5	-	-	9	24	38	138	
		2020	1	19*	74*	6	100	5	-	-	9	24	38	138	
		2021	23	N.A	N.A	21	44	N.A	N.A	23	1	N.A	24	68	
4	Goa	2019	112	117	18	2	249	1	0	0	0	0	1	250	
		2020	82	146	13	3	244	-	-	-	-	-	0	244	
		2021	83	146	12	23	264	-	-	-	-	1	1	265	
5	Karnataka	2019	-	61	5	-	66	-	-	-	-	-	0	66	
		2020	-	32	5	-	37	-	-	-	-	-	0	37	
		2021	-	32	5	-	37	-	-	-	-	-	0	37	
6	Kerala	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	
		2021	39	59	2	0	100	40	-	-	4546	332	4918	5018	
7	Maharashtra	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	
		2021	170	1090	14	70	1344	68	2	5	0	2	77	1421	
8	Odisha	2019	-	-	335	-	335	-	-	-	-	-	0	335	
		2020	-	-	73	-	73	-	-	-	-	-	0	73	
		2021	-	-	73	-	73	-	-	-	-	-	0	73	
9	West Bengal	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	
		2021	97	371	7	45	520	7	3	5	1823	41	1879	2399	
10	Tamil Nadu	2019	-	-	-	-	0	-	-	-	2	-	2	2	
		2020	-	-	-	-	0	-	-	-	2	-	2	2	
		2021	-	-	-	-	-	-	-	-	-	-	-	-	
11	MIZORAM	2019	-	-	-	-	0	-	-	-	-	-	0	0	
		2020	-	-	-	-	0	-	-	-	-	-	0	0	
		2021	-	-	-	-	-	-	-	-	-	-	-	-	
12	Nagaland	2019	-	-	-	-	0	-	-	-	-	-	0	0	
		2020	-	-	-	-	-	-	-	-	-	-	-	-	
		2021	-	-	-	-	-	-	-	-	-	-	-	-	
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	
		2021	174	35	1	148	358	56	0	12	0	11	79	437	
14	Jharkhand	2021					0	2				2	2		
Grand Total		2019	867	1770	580	291	3508	175	32	84	2115	5241	7647	11155	
		2020	610	1868	286	304	3068	222	6	80	6920	491	7719	10787	
		2021	586	1733	273	313	2905	188	5	45	6446	387	7071	9976	

Source : Govt. of States &amp; Union Territories

@@ Others includes country boats

**Number of Passengers and Cargo Carried By Inland Water Vessels**

**Table No. 3.2**

**(Year Ending 31st March 2021)**

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	2017	-	-	-	-
		2018	-	-	-	-
		2019	-	-	-	-
		2020	-	-	-	-
		2021	-	-	-	-
2	Assam	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
		2021	15	76	94866.57	1979198.00
3	Bihar	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
		2021	78	N.A	11.95	N.A
4	Goa	2017	106	115	116600.76	-
		2018	149	-	71902.10	-
		2019	121	-	14839.40	-
		2020	108	-	8200.00	-
		2021	81	-	35471.67	-
5	Karnataka	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
		2021	37	37	26.45	916.25
6	Kerala	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
		2021	6	63	18828.72	8874.78
7	Maharashtra	2017	-	-	17642.72	18281.73
		2018	-	-	18336.60	19095.00
		2019	-	-	20397.94	19291.70
		2020	-	-	20951.51	15922.30
		2021	-	-	32955.70	9106.53
8	Odisha	2017	-	9	-	157.00
		2018	-	9	-	132.00
		2019	-	11	-	128.62
		2020	-	11	-	131.22
		2021	-	11	-	131.22
9	West Bengal	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
		2021	142	378	58752.00	126980.00
10	MIZORAM	2017	-	-	-	-
		2018	-	-	-	-
		2019	-	-	-	-
		2020	-	-	-	-
		2021	-	-	-	-
11	Tamil Nadu	2017 *	-	-	-	-
		2018 *	-	-	-	-
		2019 *	-	-	-	-
		2020*	-	-	-	-
		2021	-	-	-	-
12	Nagaland	2018	-	-	-	-
		2019	-	-	-	-
		2020	-	-	-	-
		2021	-	-	-	-
		2021	-	-	-	-
13	Jharkhand	2021	**	**	**	**

Source : State Govt.

: Not Available-

\* Information for the year 2020-21 has not been received. Pertains to last received data has been.

\*\* No passenger vessel/tourist vessel operated through NW1 due to restriction of covid-19 Pandemic situation

## **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 2021)**

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**					
	2019	3	-	278.40	-	-
	2020	2	-	2.67	-	-
	2021	1	-	1.32	-	N.A.
2	D.V.Salgaocar, Goa**					
	2019	3	-	170.40	-	-
	2020	Nil	Nil	Nil	Nil	Nil
	2021	Nil	Nil	Nil	Nil	Nil
3	V.M.Salgaocar Sales International**					
	2019	2	-	211.20	-	-
	2020	2	-	2.81	-	-
	2021	2	-	2.81	-	N.A.
4	Sesa Resource Ltd Goa					
	2019	2	-	2139	-	-
	2020	2	-	2139	-	-
	2021	2	-	2139	NA	N.A.
5	Vedanta Ltd.					
	2019	30	1	41150	88	-
	2020	30	1	41150	88	-
	2021	30	1	41150	88	NA
6	Goa Ore Carriers*					
	2019 @	-	-	-	-	-
	2020	2	-	5200	-	-
	2021	-	-	-	-	-
7	Maharshi Shipping Co.					
	2019	5	-	184.56	-	-
	2020	6	-	284.56	-	-
	2021	6	-	274.86		
8	Indo-Swiss Trading Co. Kolkata.					
	2019	-	2	118	270	-
	2020	-	2	118	270	-
	2021	-	2	118	270	-
9	Vivada Inland Waterways Ltd. Kolkata					
	2019	8	0	5.250	-	2
	2020	10	6	895.262	19185	-
	2021	8	6	825.220	15985	-
10	West Bengal Surface Transport Corporation Ltd					
	2019	5	47	-	38069650	-
	2020	8	78	-	61068650	-
	2021	8	78	-	55579028	-

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

**IWT Vessels With Valid Certificates of Survey-Owned By Responding  
Private Companies/Undertakings By Type (As on 31st March 2021)**

Private Companies Undertakings By Type (As on 31st March 2021)						
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					
	2019	-	34	-	27250167	-
	2020	-	40	-	50550129	-
	2021	-	40	-	40780228	-
12	West Bengal Tourism Development Corporation limited, Kolkata					
	2019	-	3	-	15940	-
	2020	-	8	-	35940	-
	2021	-	8	-	25750	-
13	Eastern Navigation (P) Ltd., Kolkata					
	2019	15	-	3.95	-	19
	2020	14	-	3.95	-	19
	2021	10	2	831.46	6878	
14	Ghatal Steam Navigation (P) Ltd., Kolkata					
	2019	-	3	-	135508	-
	2020	-	4	-	475508	-
	2021	-	4	-	335710	-
15	Diamond Harbour Municipality, Kolkata					
	2019	-	3	-	128729	-
	2020	-	3	-	239729	-
	2021	-	3	-	179369	-
16	Bengal Heritage River					
	2019	-	3	-	18840	-
	2020	-	8	-	37940	-
	2021	-	8	-	18059	-
17	Chandan Nagar Municipality, Kolkata					
	2019	-	5	-	21608	-
	2020	-	3	-	51608	-
	2021	-	3	-	35702	-
18	Sohom Shipping Pvt.Ltd.					
	2019	9	-	6.569	-	-
	2020	6	-	224.21	-	-
	2021	Nil	Nil	Nil	Nil	Nil
19	Assam Bengal Steam Navigation					
	2019	-	4	2.402	124	-
	2020	-	4	-	122	-
	2021	-	4	-	122	-
20	Pioneer Shipping Lines					
	2019	-	-	-	-	-
	2020	-	-	-	-	-
	2021	-	-	-	-	-

**Table No. 4.1 IWT Vessels With Valid Certificates of Survey-Owned By Responding Private Companies/Undertakings By Type (As on 31st March 2021)**  
(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
21	Ganges Water Transport Co. Pvt.					
	2019	2	-	5.28	-	-
	2020	2	-	5.40	-	-
	2021	2	-	7.30	-	-
22	Krishna Shipping & Logistics Ltd.					
	2019	5	-	2.08	-	2
	2020	7	-	3.70	-	-
	2021	5	-	2.08	-	5
23	JSW Salav Steel Ltd.					
	2019	7	-	12.57	-	-
	2020	NA	NA	NA	NA	NA
	2021	NA	NA	NA	NA	NA
24	Finolex Industries Ltd.					
	2019	1	-	0.01	6	-
	2020	NA	NA	NA	NA	NA
	2021	1	-	0.01		
25	Lots Shipping Ltd.*					
	2019	4	-	1.19	-	1
	2020	2	-	770000.00	-	1
	2021	-	-	-	-	-
26	Jsw Jaigarh Port Ltd.					
	2019	2	-	10.53	-	-
	2020	5	-	21.06	-	-
	2021	4	-	21.06	Nil	Nil
27	Global Shipping & Forwarding					
	2019	9	-	9.14	-	-
	2020	-	-	-	-	-
	2021	Nil	Nil	Nil	Nil	Nil
28	Infrastructure Logistics Pvt. Ltd.					
	2019	2	-	105.77	-	-
	2020	2	-	104.51	-	-
	2021	3	-	106.68	-	-
29	Kerala Shipping & Inland Navigation Co. Ltd.					
	2019	3	-	1.05	-	-
	2020	6	-	1.76	-	-
	2021	6	-	1.76	-	-

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

**IWT Vessels With Valid Certificates of Survey-Owned By Responding Private Companies/Undertakings By Type (As on 31st March 2021)**

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
30	Timblo Pvt. Ltd.					
	2019	4	1	5.950 + (60 kilo ltrs.)	14	-
	2020	1	1	0.149+(60 Kilo ltrs. )	14	-
	2021	1	1	0.149+(60 KL HFHSD	8	Nil
31	Backwater Navigation Co.					
	2019	1	-	0.69	-	-
	2020	1	-	0.19	-	-
	2021	1	-	0.19	-	-
32	Indo Energy International Ltd.*					
	2019	11	-	11.84	-	-
	2020	NA	NA	NA	NA	NA
	2021	-	-	-	-	-
33	K.K. Shipping					
	2019	1	-	0.41	-	-
	2020	1	-	0.27	-	-
	2021	1	-	0.47	-	Nil
34	Haldia Nirman Projects P. Ltd.					
	2019	3	-	1.998	-	-
	2020	3	-	1.998	-	-
	2021	Nil	Nil	Nil	Nil	Nil
35	Angre Port Pvt. Ltd.					
	2019	-	-	-	-	-
	2020	Nil	Nil	Nil	Nil	Nil
	2021	Nil	Nil	Nil	Nil	Nil
36	M/S Neli *					
	2019	1	-	0.37	-	-
	2020	1	-	0.37	-	-
	2021	-	-	-	-	-
37	Spring Professional Services Pvt. Ltd.*					
	2019	-	1	-	70	-
	2020	-	-	-	-	-
	2021	-	-	-	-	-
38	JSW Dharamtar Port Pvt. Ltd.					
	2019	-	-	-	-	3
	2020	-	-	-	-	-
	2021	-	-	-	-	-
39	PNP Maritime Services Pvt. Ltd.					
	2019	25	-	31.24	-	-
	2020	-	-	-	-	-
	2021	3	-	4	NA	NA
40	Mags Impex (Shipping) Pvt. Ltd.*					
	2019	-	-	-	-	-
	2020	-	-	-	-	-
	2021	-	-	-	-	-

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

**IWT Vessels With Valid Certificates of Survey-Owned By Responding Private Companies/Undertakings By Type (As on 31st March 2021)**

Sl. No.	Company/ Undertaking and Year	Self Propelled				Non-Self Propelled (Dumb Barges)
		Type of vessel		Carrying capacity		
		Cargo (No.)	Passenger (No.)	Cargo(in thousand	Passenger(in No.)	
1	2	3	4	5	6	7
41	Minescape Minerals Pvt. Ltd.*					
	2019	6	-	13.45	-	-
	2020	-	-	-	-	-
	2021	-	-	-	-	-
42	Nirakar Engineering Services Ltd. *					
	2019	1	-	1	-	-
	2020	2	-	4400	-	-
	2021	-	-	-	-	-
43	Star Cement*					
	2019	-	-	-	-	-
	2020	Nil	Nil	Nil	Nil	Nil
	2021	-	-	-	-	-
44	Kottayam Port and Container Terminal Pvt. Ltd.					
	2019	1	-	0.160	-	-
	2020	1	-	0.160	-	-
	2021	1	-	0.160	-	Nil
45	FACT (Coachin Division)					
	2019	1	-	0.417	-	-
	2020	1	-	0.417	-	-
	2021	1	-	0.417	-	-
46	Brahmaputra Cruises					
	2019	-	1	-	150	1
	2020	-	1	-	180	-
	2021	-	1	NA	NA	-
47	Adventure Resorts & Cruises Pvt. Ltd.					
	2018	-	1	-	46	-
	2019	-	3	1.25	68	-
	2020	-	3	1.25	68	-
	2021	-	2	1.21	64	-
48	Pennon Shipping					
	2019	1	-	1.798	-	-
	2020	5	-	9.094	-	-
	2021	6	-	10.947	Nil	Nil
		6.00				
49	Heritage River Journeys Pvt. Ltd.					
	2019	-	3	-	168	-
	2020	-	3	-	168	-
	2021	-	2	-	112	-
50	Jindal ITF Ltd.					
	2019	28	-	425.27	-	-
	2020	28	-	625.27	-	-
	2021	28	-	589.29	-	-

**IWT Vessels With Valid Certificates of Survey-Owned By Responding  
Private Companies/Undertakings By Type (As on 31st March 2021)**

**Table No. 4.1**

Sl. No.	Company/ Undertaking and Year	Self Propelled				Non-Self Propelled (Dumb Barges)
		Type of vessel		Carrying capacity		
		Cargo (No.)	Passenger (No.)	Cargo(in thousand	Passenger(in No.)	
1	2	3	4	5	6	7
51	M/S AIE IMPEX*					
	2020	Nil	Nil	Nil	Nil	Nil
	2021	-	-	-	-	-
52	Inland Coastal Shipping Ltd.					
	2021	2	-	600	-	NA
53	Bollore Logistics India Pvt. Ltd.					
	2021	5	-	295	-	-

# 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.

\* No information received for the year 2020-21

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

NA- Not Applicable

Table No. 4.2

## Cargo/Passenger Carried And Freight Collected - By Responding Private Companies/ Public Undertakings

(Year Ending 31st March 2021)

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	<b>S. V. Salgaocar, Goa**</b>								
	2019	Cargo	3	8120	222.72	278400	2260.61	-	-
	2020	Cargo	2	2296	55.34	85.098	0.20	-	-
	2021	Cargo	1	5328	153.30	156884	835.88	NA	-
2	<b>D. V. Salgaocar, Goa**</b>								
	2019	Cargo	3	4970	136.32	170400	846.89	-	-
	2020	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
	2021	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
3	<b>V.M.Salgaocar Sales International**</b>								
	2019	Cargo	2	6160	168.96	211200	1300.99	-	-
	2020	Cargo	2	3168	65.59	92837	294.11	-	-
	2021	Cargo	2	6890	206.49	219483	1512.24	NA	-
4	<b>Sesa Resources Ltd Goa</b>								
	2019	Cargo	2	7550	(c)	98550.07	744.05	-	-
	2020	Cargo	2	10526	(c)	251749.16	2649.91	-	-
	2021	Cargo	2	7754	NA	16392838.55	127110.07	NA	-
5	<b>Vedanta Ltd.</b>								
	2019	Cargo/Passenger	32	103000	(c)	1971614.76	203076.32	-	-
	2020	Cargo/Passenger	17	51035	(c)	1789296.32	91316.74	-	-
	2021	Cargo/Passenger	17	77997	NA	3150383.389	245720.45	NA	-
6	<b>Goa Ore Carriers*</b>								
	2019@	-	-	-	-	-	-	-	-
	2020	Cargo	2	36864	347.62	489600	18048.61	-	-
	2021	-	-	-	-	-	-	-	-
7	<b>Maharshi Shipping Co.</b>								
	2019	Cargo	5	-	154.36	184560	-	-	-
	2020	Cargo	6	-	186.63	284560	-	-	-
	2021	Cargo	6	-	171.73	274860	-	-	-
8	<b>Indo-Swiss Trading Co.Pvt. Ltd., Kolkata</b>								
	2019	Pass.	2	15450	-	-	-	-	-
	2020	Pass.	2	16472	-	-	-	-	-
	2021	Pass.	2	14670	-	-	-	-	-
9	<b>VIVADA Inland Waterways Ltd., Kolkata</b>								
	2019	Cargo/Tug/Pass/LCT	10	10132	-	273600	2772.12	-	-
	2020	Cargo/Tug/Pass/LCT	16	-	1008.39	895262	-	19185	-
	2021	Cargo/Tug/Pass/LCT	16	-	982.39	825220	-	15985	-
10	<b>W. Bengal Surface Transport Corporation Ltd., Kolkata</b>								
	2019	Pass./LCT	56	-	782.56	35581(b)	-	38069650	-
	2020	Pass./LCT	86	-	882.56	46581(b)	-	61068650	-
	2021	Pass./LCT	86	-	838.78	37712(b)	-	55579028	-

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	<b>Hooghly Nadi Jalapath Paribahan Samabaya Samity, Kolkata</b>								
	2019	Pass.	34	-	483.72	-	-	27250167	-
	2020	Pass.	40	-	583.72	-	-	50550129	-
	2021	Pass.	40	-	518.18	-	-	40780228	-
12	<b>West Bengal Tourism Development Corpn. Ltd., Kolkata</b>								
	2019	Pass.	3	-	98.27	-	-	15940	-
	2020	Pass.	8	-	106.27	-	-	35940	-
	2021	Pass.	8	-	95.18	-	-	25750	-
13	<b>Eastern Navigation (P) Ltd., W. Bengal, Kolkata</b>								
	2019	Cargo/Tug/Pass.	3	1600	80.00	800	1.28	-	-
	2020	Cargo/Tug/Pass.	14	1400	50.00	600	0.84	-	-
	2021	Cargo/Tug/Pass.	12		505.26	831.46			
14	<b>Ghatal steam Navigation (P) Ltd. Kolkata</b>								
	2019	Pass.	3	-	149.29	-	-	135508	-
	2020	Pass.	4	-	288.12	-	-	475508	-
	2021	Pass.	4	-	253.16	-	-	335710	-
15	<b>Diamond Harbour Municipality, Kolkata</b>								
	2019	Pass.	3	-	153.56	-	-	128729	-
	2020	Pass.	3	-	167.19	-	-	239729	-
	2021	Pass.	3	-	126.12	-	-	179369	-
16	<b>Bengal Heritage River</b>								
	2019	Tugs	3	-	28.45	-	-	18840	-
	2020	Tugs	8	-	37.46	-	-	37940	-
	2021	Tugs	8	-	15.16	-	-	18059	-
17	<b>Chandan Nagar Municipality, Kolkata</b>								
	2019	Pass.	5	-	7.45	-	-	21608	-
	2020	Pass.	3	-	9.45	-	-	51608	-
	2021	Pass.	3	-	4.29	-	-	35702	-
18	<b>Soham Shipping Pvt.Ltd.</b>								
	2019	Cargo	-	-	-	-	-	-	-
	2020	Cargo	6	-	125.72	224210	-	-	-
	2021	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
19	<b>Assam Bengal Steam Navigation</b>								
	2019	-	4	2242	-	-	-	1040	-
	2020	-	9	2692	-	-	-	995	-
	2021	-	10	2717	-	-	-	661	-
20	<b>Pioneer Shipping Lines</b>								
	2019	-	-	-	-	-	-	-	-
	2020	-	-	-	-	-	-	-	-
	2021	-	-	-	-	-	-	-	-

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	<b>Ganges Water Transport Co. Pvt. Ltd.</b>								
	2019	Cargo	2	40410	289	95863	3873.82	-	-
	2020	Cargo	2	4486	258.12	88254	395.91	-	-
	2021	Cargo	2	33132	287.47	89461	2964.02	-	-
22	<b>Krishna Shipping &amp; Logistics Ltd.</b>								
	2019	-	-	-	-	-	-	-	-
	2020	NA	NA	NA	NA	NA	NA	NA	NA
	2021	-	-	-	-	-	-	-	-
23	<b>JSW Salav Steel Ltd.</b>								
	2019	-	7	2070	-	553175.5	1145.07	-	-
	2020	Cargo	9	2214	-	555559.9	1230.01	-	-
	2021	Cargo	8	2304	Nil	579899.8	1336.09	NA	NA
24	<b>Finolex Industries Ltd.</b>								
	2019	-	-	-	-	-	-	-	-
	2020	NA	NA	NA	NA	NA	NA	NA	NA
	2021	-	Nil	NA	NA	NA	NA	NA	NA
25	<b>Lots Shipping Ltd. *</b>								
	2019	Cargo	4	18895	77	175267	3311.67	-	-
	2020	Cargo	2	9380	267	95360	1644.00	-	-
	2021	-	-	-	-	-	-	-	-
26	<b>Jsw Jaigarh Port Ltd.</b>								
	2019	Cargo	2	88160	-	1337000	117869.92	-	-
	2020	Cargo	4	51728	-	1533000	79299.02	-	-
	2021	Cargo	4	89304	-	2668326	238292.19	-	-
27	<b>Global Shipping &amp; Forwarding</b>								
	2019	-	-	-	-	-	-	-	-
	2020	-	-	-	-	-	-	-	-
	2021	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
28	<b>Infrastructure Logistics Pvt.</b>								
	2019	Cargo	2	4700	(d)	105772	497.13	-	-
	2020	Cargo	2	4700	(d)	104510	491.20	-	-
	2021	Cargo	5	1704	(d)	215680	367.52	-	-
29	<b>Kerala Shipping &amp; Inland Navigation Co. Ltd.</b>								
	2019	Cargo	7	13230	246.48	139210	1841.75	-	-
	2020	Cargo	6	22982	409.98	173801	3994.29	-	-
	2021	Cargo	6	28314	497.75	257108	7279.76	-	-
30	<b>Timblo Pvt. Ltd.</b>								
	2019	Cargo/Passenger	5	1904	64.89	63139+353 Kilo Ltrs.)	287.86	-	-
	2020	Cargo/Passenger	2	956	3.83	38550+34KL	144.49	-	-
	2021	Cargo/Passenger	3	67	2.30	147 KL	10.08	-	-

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
31	<b>Backwater Navigation Co.</b>								
	2019	Cargo	1	25986	241.00	70272	1826.09	-	-
	2020	Cargo	1	25560	257.00	69056	1765.07	-	-
	2021	Cargo	1	24424	257.00	66048	1613.16	-	-
32	<b>Indo Energy International Ltd.*</b>								
	2019	Cargo	11	44206	-	944637	41758.62	-	-
	2020	NA	NA	NA	NA	NA	NA	NA	NA
	2021	-	-	-	-	-	-	-	-
33	<b>K.K. Shipping</b>								
	2019	Cargo	1	2340	9.33 e	1000	2.34	-	-
	2020	Cargo	1	1560	15.47 e	1520	2.37	-	-
	2021	Cargo	1	1560	13.50 e	2462	3.84	-	-
34	<b>Haldia Nirman Projects P. Ltd.</b>								
	2019	Cargo	3	-	-	75000	-	-	-
	2020	Cargo	3	-	-	-	-	-	-
	2021	NA	NA	NA	NA	NA	NA	NA	NA
35	<b>Angre Port Pvt. Ltd.</b>								
	2019	-	-	-	-	-	-	-	-
	2020	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
	2021	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
36	<b>M/S Neli *</b>								
	2019	Cargo	1	6240	64.31 e	6887	43	-	-
	2020	Cargo	1	6240	70.53 e	6932	43	-	-
	2021	-	-	-	-	-	-	-	-
37	<b>Spring Professional Services Pvt. Ltd.*</b>								
	2019	Cargo	1	11242	187	23320	262	-	-
	2020	-	-	-	-	-	-	-	-
	2021	-	-	-	-	-	-	-	-
38	<b>JSW Dharamtar Port Pvt. Ltd.</b>								
	2019	Cargo	52	538454	-	12757	6869	-	-
	2020	-	-	-	-	-	-	-	-
	2021	-	50	596454	Nil	12902	7695	-	-

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

**Table No. 4.2 (Contd...)**

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
39	<b>PNP Maritime Services Pvt. Ltd.</b>								
	2019	Cargo	-	-	-	3915155	-	-	-
	2020	-	-	-	-	-	-	-	-
	2021	-	-	-	-	3272050	-	-	-
40	<b>Mags Impex (Shipping) Pvt. Ltd.*</b>								
	2019	-	-	-	-	-	-	-	-
	2020	-	-	-	-	-	-	-	-
	2021	-	-	-	-	-	-	-	-
41	<b>Minescape Mineraaals Pvt. Ltd.*</b>								
	2019	-	-	-	-	-	-	-	-
	2020	-	-	-	-	-	-	-	-
	2021	-	-	-	-	-	-	-	-
42	<b>Nirakar Engineering Services Ltd.*</b>								
	2019	Cargo	1	2222	34.68	42827	95	-	-
	2020	-	2	8334	113.40	162000	1350	-	-
	2021	-	-	-	-	-	-	-	-
43	<b>Star Cement*</b>								
	2019	Cargo	4	-	20.07	2209	-	-	-
	2020	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
	2021	-	-	-	-	-	-	-	-
44	<b>Kottayam Port &amp; Container Terminal Pvt. Ltd.</b>								
	2019	All	1	300	Rs. 9000/-	247	0.07	-	-
	2020	All	1	-	-	-	-	-	-
	2021	Container	1	100	Nil	Nil	-	-	-
45	<b>FACT (Cochin Division)</b>								
	2019		1	13400	+	62931	843.28	-	-
	2020		1	22672	+	70314	1594.16	-	-
	2021		1	20467	+	58307.28	1193.38	-	-
46	<b>Brahmaputra Cruises Pvt. Ltd.</b>								
	2019	Pass.	1	5	244.09	-	-	65000	325000
	2020	Pass.	1	6	227.50	-	-	65000	390000
	2021	-	-	-	-	-	-	-	-
47	<b>Adventure Resorts &amp; Cruises Pvt. Ltd.</b>								
	2019	Passenger	3	3973	855	-	-	1295	#####
	2020	Passenger	3	473	545	-	-	1888	893024
	2021	Passenger	2	473	0	0	-	0	0

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

**Table No. 4.2 (Contd...)**

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
48	<b>Pennon Shipping</b>								
	2019	Cargo	1	2050	-	29496	60	-	-
	2020	Cargo	5	16466	-	223404	3679	-	-
	2021	Cargo	6	27095	-	349340	9465	-	-
49	<b>Heritage River Journeys Pvt. Ltd.</b>								
	2019	Passenger	3	1253	-	-	-	1550	#####
	2020	Passenger	3	1253	-	-	-	1270	#####
	2021	-	-	-	-	-	-	-	-
50	<b>Jindal ITF Ltd.</b>								
	2019	Cargo	28	-	465.23	425270	-	-	-
	2020	Cargo	28	-	586.73	625270	-	-	-
	2021	Cargo	28	-	525.18	589290	-	-	-
51	<b>M/S AIE IMPEX*</b>								
	2020	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
	2021	-	-	-	-	-	-	-	-
52	<b>Inland Coastal Shipping Ltd.</b>								
	2021	Cargo	2	3260	1.98	42000	136.92	-	-
53	<b>Bollore Logistics India Pvt. Ltd.</b>								
	2021	-	-	-	-	-	-	-	-

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

\* No information received for the year 2020-21

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

**SECTION – 5**

**PLAN-WISE OUTLAY &  
EXPENDITURE FOR IWT  
SECTOR**



**Table No. 5.1****YEAR WISE FINANCIAL PERFORMANCE FROM F.Y. 2017-18 TO F.Y. 2020-21**

(Rs. In Crore)

Sl. No.	Budget head/ Waterways	Financial Year			Financial Year			Financial Year			Financial Year			Financial Year		
		(2017-18)			(2018-19)			(2019-20)			(2020-21)			(2021-22)		
		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.
<b>I</b>	<b>Grants to IWAI</b>															
1	National Waterway 1	54.77	54.77	54.77	100.57	110.57	228.16	96.66	90.66	155.10	109	62	61.68			
2	National Waterway 3	28.83	29.10	29.09	25	15.00	15.12	51.43	15.21	26.07	31	21.00	21.07			
3	Others **	18.4	54.79	85.23	52.18	52.18	55.3	156.47	18.23	31.50	60	37	37.25			
	<b>Sub Total - I (Grants to IWAI)</b>	<b>102.00</b>	<b>138.66</b>	<b>169.09</b>	<b>177.75</b>	<b>177.75</b>	<b>298.58</b>	<b>304.56</b>	<b>124.10</b>	<b>212.67</b>	<b>200.00</b>	<b>120.00</b>	<b>120.00</b>	<b>102.00</b>	<b>0.00</b>	<b>0.00</b>
4	Jal Marg Vikas Project (JMVP)		75.00	348.53	25	420.54	430.93	230	230.00	461.83	300	261.50	222.92	295		
	<b>Sub Total - II (Grants to IWAI including JMVP)</b>	<b>102.00</b>	<b>213.66</b>	<b>517.62*</b>	<b>202.75</b>	<b>598.29</b>	<b>729.51</b>	<b>534.56</b>	<b>354.10</b>	<b>674.50</b>	<b>500.00</b>	<b>381.50</b>	<b>342.92</b>	<b>397.00</b>	<b>0.00</b>	<b>0.00</b>
<b>II</b>	<b>North Eastern Area</b>															
4	National Waterway 2	93.00	109.15	118.97	120.00	105.00	106.54	80.00	52.50	58.43	40.00	32.00	32	89.1		
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		
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		
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					
	<b>Sub total - II (NER)</b>	<b>93.00</b>	<b>109.15</b>	<b>118.97</b>	<b>120.00</b>	<b>105.00</b>	<b>106.54</b>	<b>80.00</b>	<b>52.50</b>	<b>58.43</b>	<b>40.00</b>	<b>32.00</b>	<b>32.00</b>	<b>89.10</b>	<b>0.00</b>	<b>0.00</b>
<b>III</b>	<b>Interest Subsidy to Bank, Loan to IWT Enterprenuer for Inland Vessel Subsidy Scheme</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00		
<b>IV</b>	<b>Tech Studies &amp; R&amp;D</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00		
<b>V</b>	<b>Central Plan Scheme/ CSS</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00		
	<b>Grand Total</b>	<b>195.00</b>	<b>322.81</b>	<b>636.59*</b>	<b>322.75</b>	<b>703.29</b>	<b>836.05*</b>	<b>614.56</b>	<b>406.60</b>	<b>732.93*</b>	<b>540.00</b>	<b>413.50</b>	<b>374.92</b>	<b>486.10</b>	<b>0.00</b>	<b>0.00</b>

Source : Inland Waterways Authority

Note:

\* Expenditure during 2016-17 and 2019-20 also includes expenditure from the fund raised from extra Budgetary resources (EBRs) during 2016-17 and 2017-18 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 incuded in (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 2020.

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
<b>STATES</b>										
1	Andhra Pradesh	17	0	0	0	0	18	2	0	20
2	Arunachal Pradesh	0	0	0	0	0	0	0	0	0
3	Assam	0	0	0	0	0	0	0	0	0
4	Bihar	62	0	0	0	0	44	21	0	65
5	Chhattisgarh	15	0	0	0	0	1	3	0	4
6	Goa	0	0	0	0	0	0	0	0	0
7	Gujarat	3	0	0	0	0	4	5	0	9
8	Haryana	0	0	0	0	0	0	0	0	0
9	Himachal Pradesh	0	0	0	0	0	0	0	0	0
10	Jharkhand	38	9	2	0	11	23	4	0	27
11	Karnataka	9	0	0	0	0	14	1	0	15
12	Kerala	16	0	0	0	0	20	0	0	20
13	Madhya Pradesh	2	0	0	0	0	2	4	0	6
14	Maharashtra	12	0	0	0	0	13	3	0	16
15	Manipur	0	0	0	0	0	0	0	0	0
16	Meghalaya	1	0	0	0	0	0	2	0	2
17	Mizoram	0	0	0	0	0	0	0	0	0
18	Nagaland	0	0	0	0	0	0	0	0	0
19	Odisha	58	0	0	0	0	47	11	0	58
20	Punjab	0	0	0	0	0	0	0	0	0
21	Rajasthan	2	0	0	0	0	6	8	0	14
22	Sikkim	0	0	0	0	0	0	0	0	0
23	Tamil Nadu	11	0	0	0	0	11	0	0	11
24	Telangana	1	0	0	0	0	0	1	0	1
25	Tripura	0	0	0	0	0	0	0	0	0
26	Uttar Pradesh	37	1	6	0	7	46	23	0	69
27	Uttarakhand	0	0	0	0	0	0	0	0	0
28	West Bengal	6	2	1	0	3	7	0	0	7
<b>Total( States)</b>		290	12	9	0	21	256	88	0	344
<b>UNION TERRITORIES</b>										
30	A&N Island	1	2	0	0	2	1	0	0	1
31	Chandigarh	0	0	0	0	0	0	0	0	0
32	D&N Haveli and Dar	0	0	0	0	0	0	0	0	0
34	Delhi	0	0	0	0	0	0	0	0	0
	Jammu & Kashmir	0	0	0	0	0	0	0	0	0
	Ladakh	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
<b>Total ( UTs)</b>		1	2	0	0	2	1	0	0	1
<b>Total States/UTs</b>		291	14	9	0	23	257	88	0	345

Source : Accidental Deaths &amp; Suicides in India - 2020

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

<b>Sl. No.</b>	<b>National Waterway No.</b>	<b>Length (km)</b>	<b>Details of Waterways</b>	<b>STATES</b>
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

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

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**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 (47km), 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
- . 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 x 15 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

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# APPENDICES



### **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.