

STATISTICS OF INLAND WATER TRANSPORT 2021-22



सत्यमेव जयते

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P R E F A C E

Transport Research Wing (TRW) in the Ministry of Ports, Shipping and Waterways is the nodal point for providing information/data on various facets of Shipping and Inland Water Transport (IWT). The present issue of “**Statistics of Inland Water Transport 2021-22**” is the 29th in the series.

The annual publication comprehensively reflects the current status of Inland Water Transport in the country for the year 2021-22. The present volume is a compilation of updated data series divided into 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 am sure that this publication will serve as the backbone for monitoring the developments and progress made by India in the sector of IWT and provide a valuable snapshot for policy makers and the public at large. The report will also help in identifying thrust areas where interventions need to be focused.

I would take this opportunity to thank the State Governments, Private Companies and the Inland Waterways Authority of India for their contribution in improving and completing this issue. Suggestions from the users of the information are welcome to enable further improvements in the quality and coverage of this document in future.

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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 up to 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 up to 31st March 2007. Under this scheme, subsidy up to 30% cost of Inland Vessel built in India for operation on National Waterways (NWs), Sunderbans and Indo-Bangladesh protocol routes could be availed. With a view to attract private sector participation in IWT a number of promotional measures and fiscal incentives have been provided. IWAI Act, 1985 was amended in September 2001 to facilitate promotion of Joint Venture by IWAI; equity participation of Government/IWAI has been limited to a ceiling of 40% for BOT project; Tax exemptions similar to National Highways notified for IWT and customs duty concessions for specified IWT equipments were notified in 2002.

INLAND WATERWAYS AUTHORITY OF INDIA (IWAI)

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

a) Carry out surveys and investigations for the development, maintenance and better utilization of the National Waterways (NWs) and the appurtenant land for shipping and navigation by:

- Providing infrastructural facilities, conservancy & river training works,
- Controlling activities of dumping / removal of bed material,
- Removing / altering any obstruction / impediment,
- Regulating traffic and structure across / under NWs,
- Disseminating navigational meteorological information,
- Coordinating with other modes of transport, providing pilotage and
- Entering into joint ventures concerning inland shipping by equity participation.

- b) The Authority may also:
- Advises Central Government on IWT matters,
 - Study the transport requirement in relation to other modes,
 - Conduct Hydrographic Surveys & publish river charts,
 - Assist State Governments for development of IWT,
 - Develop & provide consultancy services,
 - Conduct research for craft design, mechanization of country crafts, techniques of towage, landing & terminal facilities, port installations & survey techniques,
 - Classification of Inland Waterways,
 - Technical training of IWT personnel within & outside country.
- c) The Authority will exercise the above functions with the prior approval of the Central Government.

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

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

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

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

The advent of railways and extension of its network marked a turning point for water-transport in India. To start with, construction of main railway lines gave a spurt to river traffic as the two modes supplemented each other, with waterways providing feeder service to railways. This 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 2021-22 are given in Table 1.1 (Section 1). The details of infrastructure facilities available on state waterways as on 31.03.2022 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 7988.37 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 100% and 96.88% in the State of Jharkhand and West Bengal respectively; by contrast, in case of U.P. the ratio of navigable length to total length is a mere 6.60%. Other States

with good inland water transport prospects are Goa, Maharashtra and Tamil Nadu where waterways navigable length is 90.84%, 83.90% and 73.57% respectively of the total length of rivers/canals/lakes reported by these states. Total length of rivers in these reporting states is 34261.45 Km of which 45.29% is navigable length.

Table 1 : Total and Navigable Length of Waterways in different States –2021-22 (In Kms)				
S. No.	State	Total Length of the Rivers/ Canals/ Lakes in State (Km.)	Navigable Length (Km.)	Percentage of Navigable Length to Total Length
1	Andhra Pradesh	3761.73	1159.73	30.83
2	Assam	7988.37	2024.00	25.34
3	Bihar	1011.00	1011.00	100.00
4	Goa	273.00	248.00	90.84
5	Gujarat *	-	-	-
6	Jharkhand	95.00	95.00	100.00
7	Karnataka	2902.00	1215.00	41.87
8	Kerala	2948.25	1926.87	65.36
9	Maharashtra	762.81	640.00	83.90
10	Mizoram	451.69	216.35	47.90
11	Nagaland	276.00	276.00	100.00
12	Odisha	2425.00	1555.00	64.12
13	Tamil Nadu	181.60	133.60	73.57
14	Uttar Pradesh **	6444.00	425.00	6.60
15	West Bengal	4741.00	4593.00	96.88
	Total	34261.45	15518.55	45.29
Source : State Governments				
Note :				
* Data not reported for the year 2021-22				
** 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 four national waterways, waterways of Goa, Maharashtra, Gujarat, Sunderbans & Icchamati waterways which carry most of the cargo traffic on India's Inland Waterways. Cargo moved on four 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 national waterways (NWs)(NW-1,2,3,4) and NWs in the State of Goa, Maharashtra, Gujarat, Sunderban and Icchamati & others was 1087.93 Lakh tonnes in 2021-22 as against 836.11 lakhs tonnes in 2020-21, reflecting an increase of 30.11 In terms of tonnage, Goa, Maharashtra, Gujarat, Sunderbans & Icchamati accounted for 4.2%, 40.1%, 27.0%, 5.6% and 0.8% respectively of the total cargo volume in 2021-22.

In terms of tonne km (movement of one tonne of cargo over a distance of one km) there was a decrease by 13.82% in 2021-22 over 2020-21 and cargo carried on Indian Waterways is 35.29

Tonne Kms. Goa, Maharashtra, Gujarat, Sundarbans, Icchamati waterways though accounted 77.70 % of the total cargo movement on inland waterways across India, in terms of tonne Kilometer their share was 46.2 % only. In case of Maharashtra and Gujarat, high volume of cargo movement was carried over relatively short average distances of about 3.65 Kms and 10.61 Kms respectively leading to their intensive use. However, in the four National Waterways, although the volume of cargo traffic was relatively small (22.3%), the average distance is 85.04 Kms. In case of National Waterway I (Ganga- Bhagirathi-Hooghly) the average distance over which cargo moved was relatively much longer at 183.76 Kms. In case of National Waterway II, National Waterway III and National Waterway IV the distance traversed by cargo was on an average of 17.37 Kms, 10.57 Kms and 2.81Kms respectively in 2021-22.

Table 2: Cargo Movement on Waterways							
S. No.	Details of Waterway	Cargo Moved (Lakh Tonnes)			Tonne Kms (In Lakh)		
		2019-20	2020-21	2021-22	2019-20	2020-21	2021-22
1	National Waterway No. I	91.12 (12.7)	92.06 (11.0)	109.28 (10.0)	46240 (64.5)	23309.40 (52.33)	20082.07 (52.3)
2	National Waterway No. II	3.93 (0.5)	3.07 (0.4)	4.28 (0.4)	100 (0.1)	44.9 (0.1)	74.38 (0.2)
3	National Waterway No. III	5.46 (0.8)	7.38 (0.9)	16.95 (1.6)	100 (0.1)	214.8 (0.5)	179.19 (0.5)
4	National Waterway No. IV	0.82 (0.1)	68.32 (8.2)	112.34 (10.3)	-	189.90 (0.4)	316.47 (0.8)
	Sub Total NWs	101.33 (14.1)	170.83 (20.4)	242.85 (22.3)	46440.00 (64.8)	23759.00 (53.3)	20652.11 (53.8)
5	Goa Waterways	29.33 (4.1)	84.61 (10.1)	45.78 (4.2)	1467.00 (2.0)	4124.40 (9.3)	2155.39 (5.6)
6	Maharashtra Waterways	243.93 (33.9)	282.10 (33.7)	436.06 (40.1)	13172.00 (18.4)	5697.00 (12.8)	1592.35 (4.1)
7	Gujarat Waterways	310.15 (43.1)	257.12 (30.8)	293.67 (27.0)	4652.00 (6.5)	4413.00 (9.9)	3117.61 (8.1)
8	Sunderban Waterways	34.61 (4.8)	38.61 (4.6)	61.03 (5.6)	5988.00 (8.3)	6558.70 (14.7)	10160.54 (26.5)
9	Icchamati & others		2.84 (0.3)	8.54 (0.8)			716.17 (1.6)
	Grand Total	719.35	836.11	1087.93	71719.00	44552.10	38394.17
Source: (i) Inland Waterways Authority of India.							
Note :							
1. Cargo handled in Kolkata-Bangladesh-Kolkata route is included in the traffic on National Waterway No. I. The route is a link between NW-I & NW-II through Bangladesh							
2. Figure within brackets indicates percentage to the total.							

NATIONAL WATERWAYS (NW)

Box 2: Criteria for declaration of National Waterway

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

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

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

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

10. A major boost to IWT Sector has been provided by the Government through enactment of the National Waterways Act, 2016 (No. 17 of 2016) dated 26th March 2016 which came into force w.e.f. 12th April 2016. This Act repealed previous Acts of existing five National

Waterways No. 1,2,3,4 & 5 and further included new 106 Inland Waterways thus totalling 111 nos. waterways declared as National Waterways which cover a total length of 20,162.5 kms spread across 24 States in the country. National Waterways of India are well in line to become the lifeline of the country. Inland Water Transport (IWT) has a potential to supplement the overburdened Railways and congested Roadways. In addition to cargo movement, National Waterways may provide a convenient function in related activities such as carriage of vehicles (in Roll-on-Roll-off mode of cross-ferry) and Tourism including stay and entertainment. The details of 111 National Waterways are placed at **Annex-I**.

11. The Infrastructure facilities provided by IWAI in the existing National Waterway No.1 (Ganga, Bhagirathi-Hooghly river system), NW-2 (river Brahmaputra) & NW-3 (West Coast Canal, Champakara Canal & Udyogmandal Canal in Kerala) are detailed at **Annex-II**.

DEVELOPMENT OF 106 NEW NATIONAL WATERWAYS

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

13. Status of 106 new National Waterways

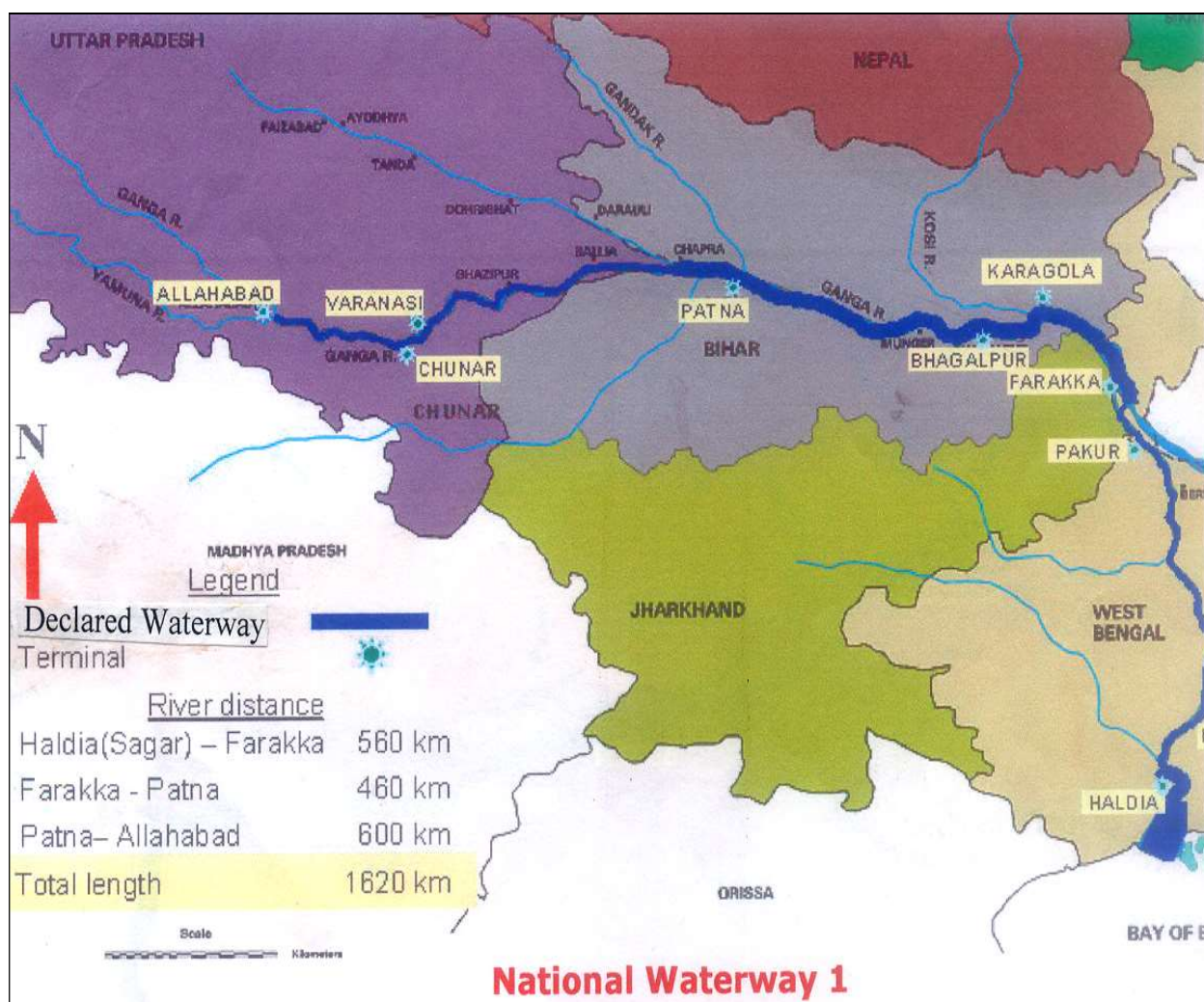
I. The Feasibility Reports (FRs) and the Detailed Project Reports(DPRs) of new 106 NWs have been completed. After detailed analysis of the outcomes and recommendations of the FRs/ DPRs, input from stakeholders, 106 NWs have been categorized into three categories. The detailed parameters which have been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

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. Sunderbans (Protocol Route) Waterways (NW -97),
3. Cumberjua River (NW-27),
4. Mandovi River (NW-68),
5. Zuari River (NW-111),
6. Alappuzha – Kottayam –Athirampuzha Canal (NW -9),
7. Alappuzha – Changanassery Canal (NW-8),
8. Rupnarayan River (West Bengal) (NW -86),
9. River Ghaghra (NW-40).

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).

15. The volume of freight movement on National Waterways-I was 109.28 lakh tonnes in 2021-22 against 92.06 lakh tonnes in 2020-21 reflecting an increase of 18.70 %.

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 38.48% of traffic on NW-1 followed by Mix (32.25%) and miscellaneous (27.43%). These three items together accounted for about 98.16 % of the total cargo moved on NW I during 2021-22.

Table 3: Composition of Cargo Moved on National Waterway- I (In Tonnes)						
Name of the Commodity	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
Building Material	2704742 (60.0)	3568909 (65.1)	4478790 (61.0)	4650148 (51.0)	4816082 (52.3)	4204484.6 (38.5)
Fertilizers	726260 (16.1)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Food items	137730 (3.1)	38340 (0.7)	260 (Neg.)	5134 (0.1)	105743.47 (1.1)	162372.71 (1.5)
Miscellaneous	59478 (1.3)	2816 (0.1)	5323 (0.1)	2162514 (23.7)	1341447 (14.6)	2998008.92 (27.4)
Mix	0 (0.0)	1694196 (30.9)	2854087 (38.8)	2269124 (24.9)	2935470 (31.9)	3524447.77 (32.3)
Ore/Minerals	16761 (0.4)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
POL/POL products	162520 (3.6)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Coal	668740 (14.8)	160262 (2.9)	924 (Neg.)	9409 (0.1)	0 (0.0)	15542.61 (0.1)
Iron steel	29146 (0.6)	14839 (0.3)	9946 (0.1)	16068 (0.2)	7222.202 (0.1)	22931.39 (0.2)
Total NW I	4505377	5479362	7349330	9112397	9205965	10927788
Source: Inland Waterways Authority of India for National Waterways. Note: Figure within brackets indicates percentage to the total Neg. – negligible Mix – Food Items, Iron Steel & Building Material(Flyash,Cement,Stones) 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

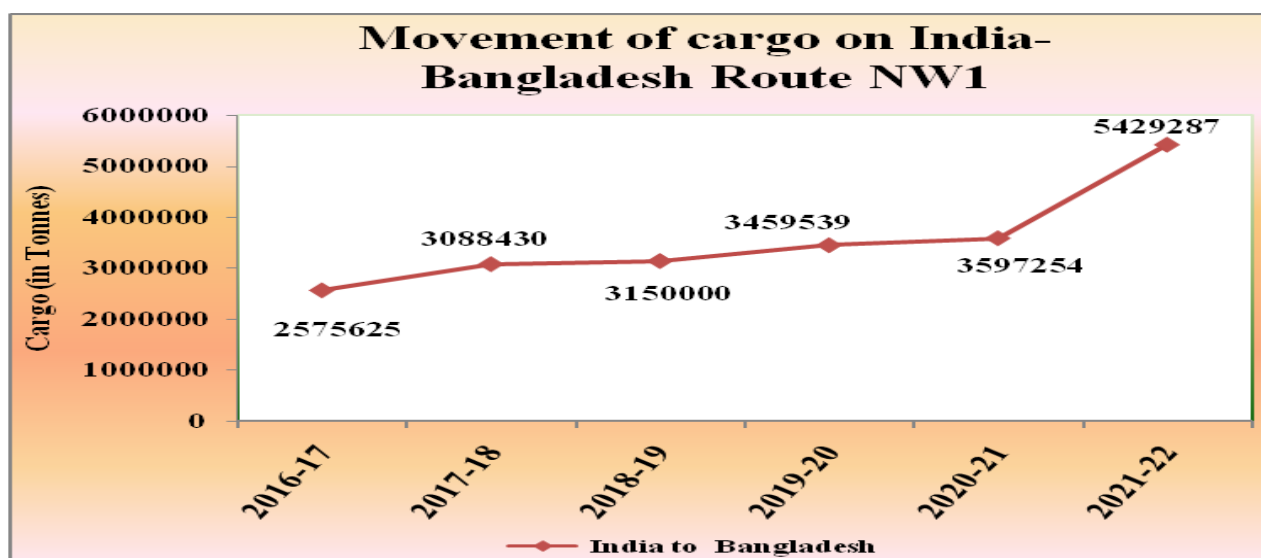
A Protocol on Inland Water Transit & Trade (PIWT&T) between India and Bangladesh has been in existence since 1972 facilitating movement of inland cargo vessels of one country on designated routes of other country for transit & trade of goods through inland waterways. For making the Protocol more effective, many landmark decisions were taken in the last two (19th & 20th) Standing Committee Meeting on PIWT&T and Secretary Shipping Level Talks held in October'2018 in New Delhi and in December'2019 in Dhaka. These decisions are given effect with the signing of 2nd addendum under PIWT&T on 20th May, 2020 at Dhaka, Bangladesh. Inland vessels of one country can transit through the specified routes of the other country. The existing protocol routes are 1 & 2 – Kolkata-Silghat and vice versa, 3 & 4 – Kolkata-Badarpur and vice versa, 5 & 6 – Dhulian-Rajshahi-Aricha and vice versa, 7 & 8 – Silghat-Badarpur and vice versa, 9 & 10 – Daudkandi-Sonamura and vice versa.. Further, number of Ports of Call has been increased from 6 to 11 and also 2 extended ports of call has been added as shown below:

Bangladesh		India	
Ports of Call	Extended Ports of Call	Ports of Call	Extended Ports of Call
Narayanganj	Ghorasal	Kolkata	Tribeni (Bandel)
Khulna	--	Haldia	--
Mongla	--	Karimganj	Badarpur
Sirajganj	--	Pandu	--
Ashuganj	--	Silghat	--
Pangaon	Muktarpur	Dhubri	--
Rajshahi	--	Dhulian	--
Sultanganj	--	Maia	--
Chilmari	--	Kolaghat	--
Daudkhandi	--	Sonamura	--
Bahadurabad	--	Jogigopha	--

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 and National Waterways-I has shown growth of 50.93% in year 2021-22 over that in 2020-21. The cargo moved over this route has increased to 54.29 lakh tonnes in 2021-22 against 35.97 Lakh tonnes in 2020-21

18. The graph below depicts trend in cargo movement on India-Bangladesh route (National Waterway-I) during the years 2016-17 to 2021-22.



19. The table 4 shows the cargo and the main commodities carried on India-Bangladesh route on National Waterway-I during the years 2016-17 to 2021-22.

Route	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	Commodities
India to Bangladesh	25,75,625	30,88,430	31,50,000	34,59,539	35,97,254	54,29,287	Fly Ash, Limestone, Steel Pipes/Bars/Plates/Coil, GC Sheet/Rail Tracks, Rice, Stone Chips, Edible Oil, Sponge Iron, Soyabean/De oiled Rice Bran, ODC
Total	25,75,625	30,88,430	31,50,000	34,59,539	35,97,254	54,29,287	

Source: Inland Waterways Authority of India

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. Jal Marg Vikas Project (NW-1): Status of implementation as on 30.06.2021 is detailed hereunder-

Jal Marg Vikas Project (JMVP) on National Waterway – 1 (NW-1) was approved by the CCEA on 3rd January, 2018. 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 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.

C. The project implementation, including the work on activities aligned to the Arth Ganga Concept, is planned to be completed by December, 2023.

D. The project has achieved an overall financial progress of 45.76% of revised cost and physical progress of 46.12% as on 31.05.2022

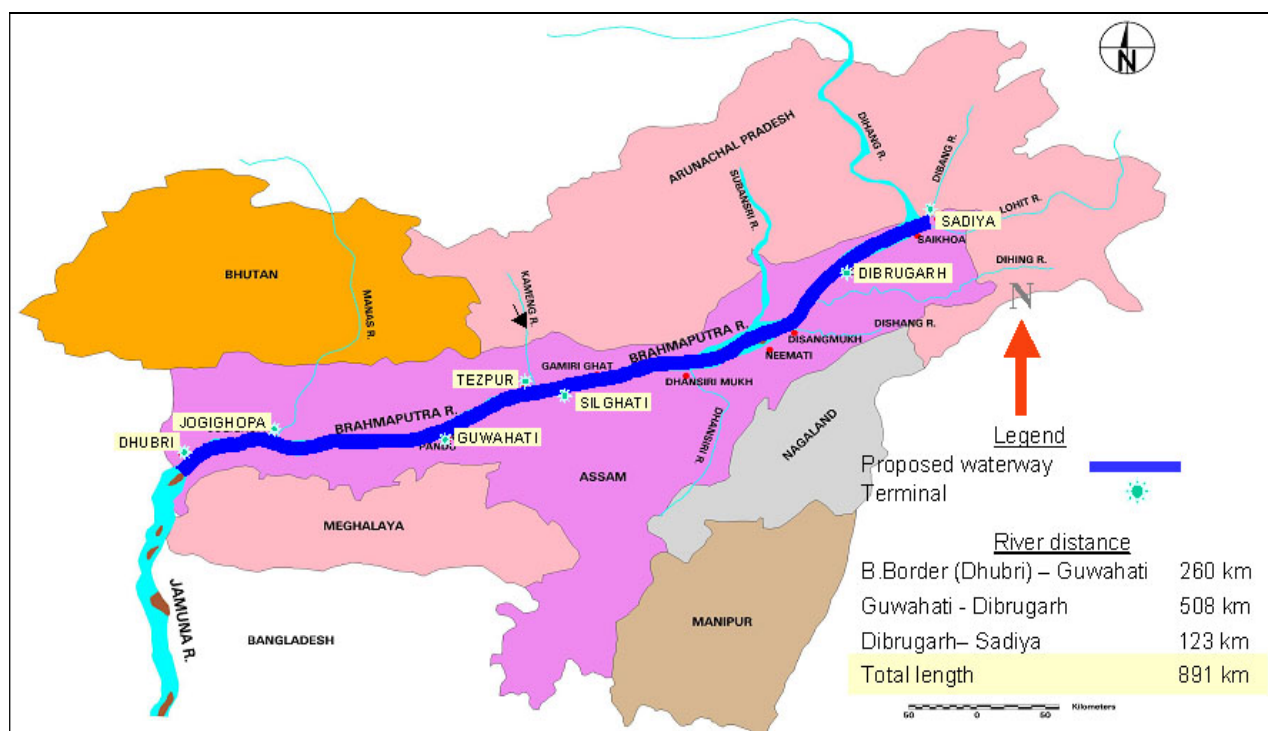
E. Present status of civil works as on 31.05.2022 is under:

- 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. 262.69 cr.
- Physical progress of Multimodal terminal at Haldia is 97.80%; and financial progress is Rs. 504.22 cr.
- Physical progress of the new navigation lock at Farakka is 92.69%; and financial progress is Rs. 317.11 cr.

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 Depth 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: ₹ 137.95 cr.; (b) Sultanganj-Mahendrapur stretch: ₹ 46.25 cr.; and (c) Mahendrapur-Barh stretch: ₹ 35.10 cr.
- G. Presently, no dredging is planned on the Kahalgaon-Sultanganj stretch (50 km) due to the presence of Dolphin Sanctuary.
- H. 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%.
- I. Construction of IMT – Terminal at Kalughat (Saran, Bihar): Notification of Award issued on 10.09.2021. Progress Physical 7% and Financial 3.5% as on 31.03.2022.
- J. Works under JMVP-II (Arth-Ganga):
- (i) Agreement signed between IWAI & IIT- Roorkee for providing technical assistance for channel stabilization works for development of navigation channel with eco-friendly techniques at 17 locations on NW-1 on 08.12.2021. The study is currently under progress.
 - (ii) Letter of Award issued for comprehensive consultancy services for preparation of DPR for IWT sector development under JMVP-II on 08.12.2021. The study is in progress.
 - (iii) Contract for consultancy services for preparation of DPR for modernization/ renovation of existing navigation lock at Farakka was signed on 11.01.2022 The study is under progress and draft inception report was submitted on 11.03.2022 which has been accepted by IWAI. DPR is awaited from the consultant.

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 2021-22. 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.

(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 4.28 lakh tonnes during 2021-22 as against 3.07 lakh tonnes during 2020-21. Commodity-wise composition of cargo movement over the years on this waterway is given below:

Table 5: Composition of Cargo Moved on National Waterway - II (In Tonnes)						
Commodity	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
Building Material	-	-	-	-	-	-
Food items	-	-	-	-	-	-
Miscellaneous	2590754 (100)	3162151 (100)	2871817 (100)	392767 (100)	307095 (100)	428134 (100)
Mix	-	-	-	-	-	-
Ore/Minerals	-	-	-	-	-	-
POL/POL Products	-	-	-	-	-	-
Total NW II	2590754	3162151	2871817	392767	307095	428134
Source: Inland Waterways Authority of India for National Waterways. Note: Figure within bracket indicates percentage to the total Neg. – negligible 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 165 km, thereby extending the total length of NW-3 to 370 km. IWAI is conducting channel developmental works that includes dredging for providing fairway of 2.20m LAD, channel width of 38 / 32m, 24 hours navigational facilities and terminal facilities equipped with mechanical cargo handling equipment. IWAI has constructed nine permanent terminals at Kottapuram, Aluva, Maradu, Vaikkom, Thanneermukkom (Cherthala), Alapuzha, Kayamkulam, Thrikkunnapuzha and Kollam. In addition, two terminals with Ro-Ro facilities have been constructed by IWAI at Bolghatty and Willingdon Island in Cochin Port limits. NW-3 is provided with 24 hours

navigational aids in the entire route. An average tonnage of 7.57 lakh tonnes of cargo moved on NW-3 per annum in the last five years. IWAI has sanctioned INR 38 crore for reconstruction of lock gate at Trikkunnappzha 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 volume of cargo on NW III increased to 16.95 lakh tonnes in 2021-22 from 7.38 lakh tonnes in 2020-21 recording an increase 129.54%. Commodity wise composition of cargo movement over the years on this waterway is given below:

Table 6 : Composition of Cargo Moved on National Waterway - III (In Tonnes)						
Commodity	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
Chemicals	195809 (19.0)	323501 (75.6)	387002 (92.1)	540997 (99.07)	661389 (89.57)	364702 (21.52)
Fertilisers	224903 (21.8)	57998 (13.6)	29403 (7.0)	0 (0.0)	0 (0.0)	0 (0.0)
Food items	-	-	-	-	-	-
Mix	608670 (58.9)	42860 (10.0)	247 (0.1)	5054 (0.93)	77042 (10.43)	1218042 (71.86)
Ore/Minerals	-	-	-	-	-	-
POL/POL products	3457 (0.3)	3630 (0.8)	3630 (0.9)	0 (0.0)	0 (0.0)	112289 (6.62)
Total NW III	1032839	427989	420312	546051	738431	1695033
Source: Inland Waterways Authority of India for National Waterways. Note: Figure within brackets indicate percentage to the total Mix –Liquid effluent, Building materials etc.						

The cargo composition of freight traffic shows that Chemicals (21.52%), Mix (71.86%) and POL/POL products were the major commodities moved through NW-III during 2021-22.

26. The total cargo moved through all the three National Waterways (NW) increased by 27.31% from 102.51 lakh tonnes during 2020-21 to 130.51 lakh tonnes during 2021-22. In 2021-22, 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 83.7%, 3.3%, and 13.0% respectively. In terms of tonne kilometers, the share of NW I, NW II and NW III is 98.7%, 0.4% 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 183.76 kms compared with an average distance of 17.37 kms for NW II and average distance of 10.57 kms for NW III in the year 2021-22. Table 7 gives cargo movement of National Waterways (NW- I, II & III) in Tonnage and Tonne Kilometers.

Table 7: Cargo Movement on National Waterways No. I, II & III							
Sl. No	Details of Waterway	Cargo Moved (Lakh Tonnes)			Tonne Kms (In Lakh)		
		2019-20	2020-21	2021-22	2019-20	2020-21	2021-22
1	National Waterway No. I	91.12 (90.7)	92.06 (89.8)	109.28 (83.7)	30544 (99.4)	23309.40 (98.9)	20082.07 (98.7)
2	National Waterway No. II	3.93 (3.9)	3.07 (3.0)	4.28 (3.3)	79.34 (0.3)	44.90 (0.2)	74.38 (0.4)
3	National Waterway No. III	5.46 (5.4)	7.38 (7.2)	16.95 (13.0)	101.97 (0.3)	214.80 (0.9)	179.19 (0.9)
	Total NWs	100.51	102.51	130.51	30725.31	23569.10	20335.64
Source: Inland Waterways Authority of India for National Waterways. Note : Cargo handled in Kolkata-Bangladesh-Kolkata route is included in the traffic on National Waterway No. I. The route is a link between NW-I & NW-II through Bangladesh. Figure within brackets indicate percentage to the total							

27. The details of the commodity wise composition of the cargo moved on the National Waterways I, II and III taken together are given in Table 8.

Table 8: Composition of Cargo Moved on national waterways No. I,II & III (In Tonnes)						
Commodity	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
Building Material	2704742 (33.3)	3568909 (39.4)	4478790 (42.1)	4650148 (46.3)	4816082.1 (47.0)	4204485 (32.2)
Chemicals	195809 (2.4)	323501 (3.6)	387002 (3.6)	540997 (5.4)	657540 (6.4)	364702 (2.8)
Fertilisers	951163 (11.7)	57998 (0.6)	29403 (0.3)	0 (0.0)	0 (0.0)	0 (0.0)
Food items	137730 (1.7)	38340 (0.4)	260 (Neg.)	5134 (0.1)	105743.47 (1.0)	162373 (1.2)
Miscellaneous	2650232 (32.6)	3164967 (34.9)	2877140 (27.1)	2555281 (25.42)	1648542 (16.1)	3426142 (26.3)
Mix	608670 (7.5)	1737056 (19.2)	2854333.9 (26.8)	2274178 (22.6)	3016369 (29.4)	4742490 (36.3)
Ore/Minerals	16761 (0.2)	0 (0)	0 (0)	0 (0.0)	0 (0.0)	0 (0.0)
POL/POL Products	165977 (2.0)	3630 (Neg.)	3660 (Neg.)	0 (0.0)	0 (0.0)	112289 (0.9)
Coal	668740 (8.2)	160262 (1.8)	924 (Neg.)	9409 (0.1)	0 (0.0)	15543 (0.1)
Iron & Steel	29146 (0.4)	14839 (0.2)	9946 (0.1)	16068 (0.2)	7222.20 (0.1)	22931 (0.2)
Total	8128970	9069502	10641459	10051215	10251499	13050955
Source: Inland Waterways Authority of India Note : Figure within brackets indicate percentage to the total Mix – Food Items, Iron Steel & Building Material (Flyash,Cement,Stones) etc. Miscellaneous – Machinery, Households, Steam Turbine, ODC Cargo, Harbour Crane and Turbine & Generator etc.						

NATIONAL WATERWAYS 4 & 5

28. 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

29. 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 3 Ro-Ro terminals is in progress.

NATIONAL WATERWAY-5

30. 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 588 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>
			Total	:	<u>588 Km</u>

Based on the feasibility studies conducted and DPR updated on 2016 and also keeping in view the potential of cargo movements as emanated through various studies, it was decided to initially develop 332 Km of economically & commercially viable stretches of NW-5 between Paradip / Dhamra and Talcher in following 2 phases and balance length of the waterway from Dhamra to Geonkhali is not considered feasible for development:

- (i) Phase-I : Between Paradip / Dhamra and Pankapal : 212 Km.
- (ii) Phase-II : Pankapal to Talcher : 120 Km.

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	The draft DPRs submitted to Central Water Commission for vetting of designs of hydraulic structures. After vetting and acceptance of DPRs, execution by JV / SPV to be finalized to execute jointly with Govt. of Odisha & private stake holders.
3	Modification / Reconstruction of existing Bridges	DPRs accepted by IWAI. Confirmation by Govt. of Odisha is awaited. Execution by JV/ SPV jointly with Govt. of Odisha & private stake holders..
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 31.07.2022.

NATIONAL INLAND NAVIGATION INSTITUTE (NINI)

31. National Inland Navigation Institute (NINI) has been setup in year 2004 by Inland Waterways Authority of India (IWAI) Ministry of Ports, Shipping and Waterways, Govt. of India to develop Human Resource for Inland Water Transport Sector. 175 Trainees have been trained during F.Y. 2021-22.

The Institute (NINI) imparts training to IWT personnel in the following disciplines:

- Induction Training of Inland Vessel GP Rating
- Preparatory Course for all grade of Deck & Engine
- Inland Manoeuvring Simulator Course
- Basic Safety Course (STCW)
- Hydro-graphic Survey
- Navigational Aids & Pilot training
- Operation, repair & maintenance of Inland Vessels
- Basic Dredger Course
- Advance Dredge Course
- Refresher Course for Inland Master
- Induction Course for IWAI Supervisors
- Marine Engineering of IWAI Supervisors
- Riverine Navigation Course
- Induction Training of newly recruited floating Staff of IWAI Personnel

(i) The following training activities were carried out:

- Induction Training GP Rating Course (33rd & 34th Batch)
- Conducted final examinations (written and oral) for General Purpose Rating Induction course in the month of October, 2021.
- The GP Rating (Inland Vessel) trainees were imparted practical training on board training ship HSD Sone, Inland Vessel Training Simulator.

(ii) Preparatory Course for Inland Vessel Certificate of Competency.

The following Preparatory Courses were Conducted for Inland Vessel Examinations:

- Serang
- Master Class II
- Master Class I
- Second Class Engine Driver

- First Class Engine Driver
- Inland Vessel Engineer

(iii) Conducting Inland Vessel Examination on behalf of Govt. of Bihar.

Examination conducted for candidates desiring to obtain Certificate of Competency for different grades mentioned below as per Inland Vessel Rules, Govt. of Bihar:

- Serang
- Master Class II
- Master Class I
- Second Class Engine Driver
- First Class Engine Driver
- Inland Vessel Engineer

IV. AFFILIATIONS AND ASSOCIATIONS:

- The ISO 9001:2015 certificate by ABS Quality Evaluations renewed subsequent to their inspection of the Institute.
- NINI conducts the CoC (Certificate of Competency) exams in NINI Campus on behalf of Transport Department Govt. of Bihar.
- MoU signed between Inland Waterways Authority of India (IWAI) with Indian Maritime University (IMU) for establishing a frame work for academic and research, co-operation in the areas of mutual interest.
- Subscription to the digital platform of e-Granthalaya software for updating library books.

V. HUMAN RESOURCE:

- The Institute has developed a pool of qualified and experienced administration and academic members for management of the Institute. In order to administration and academic programme at present One Officer In-Charge along with Principal, Administrative Officer, Accounts Assistant, JHS, Senior Faculty, Consultant have been appointed who take the responsibility for undertaking the necessary human resource and management for day to day operation, administration and systematic development of academic activities at NINI other work as and when required
- The Institute deploys faculty in three categories namely regular consulting faculty, regular visiting faculty and need based visiting faculty.

IWT ACTIVITIES – STATE GOVERNMENT

32. The number of vessels deployed and Number of Passenger carried on Inland Waterways across the reporting States is given in Table 9.

Table 9: Number of Inland Water Vessels and Passenger Carried – State wise								
State/UT	Number of Vessels				No. of Passengers Carried (In Thousand No.)			
	2018-19	2019-20	2020-21	2021-22	2018-19	2019-20	2020-21	2021-22
Assam	198	203	256	81	8514.22	6585.91	1979.20	4385.95
Bihar	138*	138*	68	16	578	578	N.A.	0.00
Goa	250	244	265	233	-	-	-	-
Karnataka	66	37	37	-	2158.00	1617.00	916.25	928.02
Kerala	5953	5590	5018	5248	19739.08	20535.31	8874.78	19224.53
Maharashtra	1391	1663	1421	1440	19291.70	15922.30	9106.53	13667.60
Odisha	335	73	73	66	128.62	131.22	131.22	118.41
West Bengal	2327	2381	2399	2369	106492	116880	126980	136369
Tamil Nadu	2	2	-	-	-	-	-	-
Gujarat	495	454	437	421	-	-	-	-
Jharkhand	-	-	2	-	-	-	-	-
TOTAL (reporting states)	11155	10787	9976	9874	156901.62	162249.74	147987.98	174693.51

Source: State Governments

*:Pertains to 2016-17 as data for these years was not received.

The total number of vessels in the States during 2021-22 was 9874 which is lower as compared to 9976 vessels in the year 2020-21. Kerala has reported the highest numbers of vessels 5248 followed by West Bengal (2369), Maharashtra (1440) and Gujarat (421). However, the Number of Passengers carried in the year 2021-22 was 174693.51 thousand numbers. West Bengal has reported the highest No. of Passengers carried through waterways which was 136369 thousand numbers followed by Kerala 19224.53 thousand numbers.

PERFORMANCE OF COMPANIES ENGAGED IN IWT

33. The data received from IWT companies shows that amongst the reporting private companies the maximum number of vessels was held by West Bengal Surface Transport Corporation Ltd. (86) followed by Hooghly Nadi Jalapath Paribahan Samabaya Samity, Kolkata (40), Vedanta Limited (32), Jindal ITF Ltd. (28), and VIVADA Inland Waterways Ltd. (16). Detailed performance of companies engaged in inland water transport activities is given in Table 4.1 & 4.2 (section 4).

The Maximum cargo of 3288 thousand tonnes was carried by PNP Maritime Services Pvt. Ltd followed by Vedanta Ltd. (2303.67 thousand tonnes), JSW Jaigarh Port Ltd. (2297.05) and Jindal ITF Ltd. (627.85 thousand tonnes).

34. Cargo moved by top reporting private companies along with the number of powered vessels employed in 2021-22 is given below:

Table 10: Top Private Companies - Cargo moved along with Powered Vessels 2021-22		
Name of the Company	Cargo moved ('000 tonnes)	No. of Powered Vessels
1. PNP Maritime Services Pvt. Ltd.	3288	12
2. Vedanta Ltd.	2303.67	32
3. JSW Jaigarh Port Ltd	2297.05	4
4. Jindal ITF Ltd.	627.85	28
5. Goa Ore Carriers	344.82	2
6. Pennon Shipping	334.69	1
7 Infrastructure Logistics Pvt. Ltd.	329.72	6
8.TP RoyChowdhury & Co. Pvt. Ltd	298.28	5
9. Maharshi Shipping Co.	281.61	6
10. Sesa Resource Ltd Goa	287.57	2

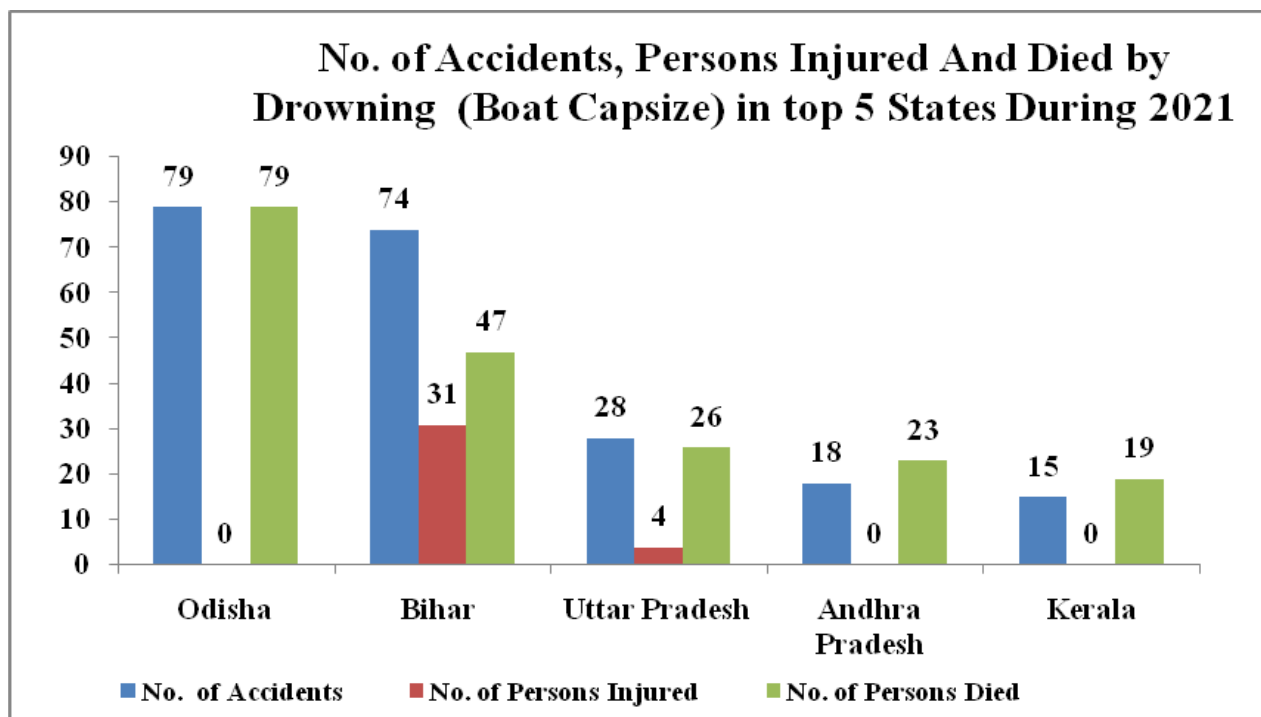
Source: Private Companies/ Operators engaged in inland water transport activities

FINANCIAL OUTLAY & EXPENDITURE FOR IWAI

35. The Budget Estimate (B.E.) during 2018-19 was Rs. 322.75 crore. The expenditure during the same year was Rs. 836.05 crore. The Budget Estimate (B.E.) during 2021-22 was Rs. 486.10 crore and Revised Estimate (R.E) during 2021-22 was Rs. 416.80 crore. The expenditure during the same year was Rs. 416.87 crore. For the year 2022-23 the Budget Estimate (B.E.) was Rs. 490.81 crore. Detailed financial outlay & expenditure for IWAI is given in Table 5.1 (section 5).

INLAND WATERWAYS TRANSPORT ACCIDENTS

36. The total number of accidents on inland waterways during the year 2021 was 270 out of which 79 were reported in Odisha followed by Bihar and Uttar Pradesh with 74 and 28 accidents respectively. The number of deaths during the year due to boat mishaps was highest in Odisha at 79 followed by Bihar and Uttar Pradesh with 47 and 26 respectively. A striking feature observed in all the States (Table 6.1, Section 6) is that the number of persons died due to boat mishaps is more than the number of persons injured on waterways unlike in the road accidents. Number of Accidents, persons injured and persons died by drowning (boat capsized) during 2021 is presented in the graph given below.



Source: Accidental Deaths & Suicides in India- 2021, *NCRB, 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	2021-22	
		Total Length of the Rivers/Canals/Lakes in the State	Navigable Length
1	2	3	4
1 ANDHRA PRADESH			
(i)	Godavari	1530	171
(ii)	Krishna	1400	157
(iii)	Others **	831.73	831.73
	Total	3761.73	1159.73
2. ASSAM			
(i)	Brahmaputra	2800	891
(ii)	Barak	900	121
(iii)	Subansiri	442	111
(iv)	Dhansiri/Chathe	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)	87.136	86
	Total	7988.37	2024
3. BIHAR			
(i)	Ganga	480	480
(ii)	Gandak	210	210
(iii)	Koshi	236	236
(iv)	Ghaghra	85	85
	Total	1011	1011
4 GOA			
(i)	Mandovi River	78	66
(ii)	Zuari River	68	68
(iii)	Mapusa River	27	27
(iv)	Chapora River	34	32
(v)	Tiracol River	29	23
(vi)	Sal River	20	15
(vii)	Others	17	17
	Total	273	248
5 GUJARAT *			
	Total		

Table No. 1.1

Navigable Waterways in India

(In Kms.)

Sl. No.		State/Rivers/Canals/Lakes	2021-22	
			Total Length of the Rivers/Canals/Lakes in the State	Navigable Length
1		2	3	4

6 KARNATAKA

(i)	Sharavathi	80	27
(ii)	Tungabhadra	375	375
(iii)	Malaprabha	270	230
(iv)	Ghataprabha	160	160
(v)	Krishna	325	125
(vi)	Cauvery	270	34
(vii)	Kabini	117	30
(viii)	Gurupura	80	20
(ix)	Gangolli	48	20
(x)	Bheema	860	125
(xi)	Udyavara	37	14
(xii)	Nethravathi	96	26
(xiii)	Kali	184	29
		2902	1215

7 KERALA \$\$

(i)	Kallada	-	-
(ii)	Ithikkara	-	-
(iii)	Muvattupuzha	-	-
(iv)	Menachil	-	-
(v)	Kariyar	-	-
(vi)	Manimala	-	-
(vii)	Kodoor	-	-
(viii)	Periyar	-	-
(ix)	Kodungallur	-	-
(x)	Ponnai Kochi	-	-
(xi)	Chalaky Kundoor	-	-
(xii)	Chaliyar	-	-
(xiii)	Kadalundi	-	-
(xiv)	Bharathapuzha	-	-
(xv)	Tirupuzha	-	-
(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	-	-

Navigable Waterways in India

Table No. 1.1

(In Kms.)

Sl. No.	State/Rivers/Canals/Lakes	2021-22	
		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	1850.549	1105.222
(xxxx)	Others **	1097.701	821.647
	Total	2948.25	1926.87
8	MAHARASHTRA		
(i)	Dande River	2	1
(ii)	Pangere River	2	1
(iii)	Girye River	3	1
(iv)	Kajali River	22.4	12.2
(v)	Kalbadevi River	7.2	3.3
(vi)	Are River	6	1
(vii)	Jog River	13	8
(viii)	Kelshi River	10.2	1.2
(ix)	Savitri River(Bankot to Mahad)	56.5	51.9
(x)	Kal River	14.7	14.7
(xi)	Vaitarna River	45.1	34.3
(xii)	Ulhas River	29.2	27.6
(xiii)	Mahim River(Bay)	7.7	3.3
(xiv)	Amba River	47.7	41.1
(xv)	Patalganga River/Creek (Aware to Kharpada)	18.6	14.2
(xvi)	Kundalika River	31	30.7
(xvii)	Mandad River(Rajpuri to Mandad)	28.9	20.5
(xviii)	Mhasla River(Turmad to Mhasla)	17.8	9.8
(xix)	Vashisti River(Dabhol to Govalkot)	39.5	43.6
(xx)	Jagbudi River(Karambavne to Khed)	25	23.4
(xxi)	Shastri River/Jaigad Creek(Jaigad to	49.9	43.6
(xxii)	Rajapur River(Musakazi to Rajapur)	21.51	19.3
(xxiii)	Vagothan River/Vijaydurg Creek(Vijaydurg to Kharepatan)	40.8	40.6
(xxiv)	Gad River(Kalaval Creek)	21.1	20.6
(xxv)	Terekhol River/Creek(Terekhol to Banda)	30.3	28.8
(xxvi)	Karli River(Malvan)	42.7	38.3
(xxvii)	Others	129	105
	Total	762.81	640.00
9	UTTAR PRADESH ***		
(i)	Gomti	960	-
(ii)	Rapti	778	-
(iii)	Ghaghra	1116	-
(iv)	Ganga	2345	425
(v)	Sai	760	-
(vi)	Tons	485	-
	Total	6444	425

Navigable Waterways in India

Table No. 1.1

(In Kms.)

Sl. No.	State/Rivers/Canals/Lakes	2021-22	
		Total Length of the Rivers/Canals/Lakes in the State	Navigable Length
1	2	3	4
10 ODISHA #			
(i)	Mahanadi	493	199
(ii)	Brahmani	541	277
(iii)	Baitarani	344	32
(iv)	Subarnarekha	50	50
(v)	Budha Balanga	35	35
(vi)	Dhamara	20	20
(vii)	Salandi	17	17
(viii)	Panchputra	21	21
(ix)	Parnei	45	45
(x)	Hatel	30	30
(xi)	Bansagadai	32	32
(xii)	Hansua	37	37
(xiii)	Tirkota	18	18
(xiv)	Jambo	6	6
(xv)	Gobari	16	16
(xvi)	Ramchandi	16	16
(xvii)	Kharansi	14	14
(xviii)	Batigharia	14	14
(xix)	Birupa	110	110
(xx)	Genguti	45	45
(xxi)	Luna	37	37
(xxii)	Devi	20	20
(xxiii)	Prachi	15	15
(xxiv)	Kadha	30	30
(xxv)	Kushabhadra	25	25
(xxvi)	Daya	9	9
(xxvii)	Rajua	7	7
(xxviii)	Makara	11	11
(xxix)	Others **	367	367
	Total	2425	1555
11 TAMIL NADU			
(ii)	North Buckingham Canal	58	40.7
(iii)	Central Buckingham Canal	7.2	-
(iv)	South Buckingham Canal	102.4	78.9
(v)	Mullai Periyar Lake	14	14
	Total	181.6	133.6
12 WEST BENGAL			
(i)	Hooghly	580	580
(ii)	Mahananda	206	58
(iii)	Ajoy	174	174
(iv)	Jalangi	232	232

Navigable Waterways in India

Table No. 1.1

(In Kms.)

Sl. No.		State/Rivers/Canals/Lakes	2021-22	
			Total Length of the Rivers/Canals/Lakes in the State	Navigable Length
1		2	3	4
	(v)	Dwarka	129	129
	(vi)	Bakreswar	102	102
	(vii)	Damodar	437	437
	(viii)	Dwarekeswar	103	103
	(ix)	Silabati	135	135
	(x)	Kumari	347	347
	(xi)	Ichamati	232	232
	(xii)	Others@	2064	2064
		Total	4741	4593
13	NAGALAND #			
	(i)	Tizu/Zungki	42	42
	(ii)	Dhansiri/Chathe	110	110
	(iii)	Dikhu	63	63
	(iv)	Doyang	61	61
		Total	276	276
14	MIZORAM			
	(i)	Chhimtuipui/ Kolodyne River	138.46	118
	(ii)	Tlawng River	185.15	81.35
	(iii)	Khawthlangtuipui River	128.08	17
		Total	451.69	216.35
15	JHARKHAND*			
	(i)	Ganga	95	95
		Total	95	95

Source: IWT Directorate of states.

* Data is reported nil for the year 2021-22

** Including Canals, Lakes & other waterways.

*** Information for the year 2021-22 has not received. Previous Year data has been Repeated. (Data for Uttar Pradesh pertains to 2016-17)

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

: Total length not provide only navigable length provided hence navigable length taken as total length

... : Not available

\$ \$ Total length & 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 31-3-2022)</div>					
Place	Size of Vessels that can be accommodated (DWT)	No. of Berths	Cargo Handling Equip. and their Capacity	Type and Extent of Storage Facility Available	Remarks like Road / Rail connectivity, land details, usage etc.
1	2	3	4	5	6
National Waterway No.1					
1. Haldia - Farakka : (560 Km) ,Depth - 2.6 to 3.0					
(i) Haldia	1500	Three(Floating)	Nil	One Godown of size 12 x 30m and Open space 1630 m2	Land taken from Haldia Dock Complex (HDC) on lease basis.
ii) Budge Budge - Kolkata	Nil	Nil	Nil	Nil	Nil
(iii) a) BISN/G.R. Jetty-1,Kolkata	1500	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 WBPDC and the same has been taken on lease from WBPDC. 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) Hazardwari	600	One (floating)	Nil	To be stored on Pontoon.	Land not available pontoon placed on water front
(xi) Pakur (Putimari)	1500	One(fixed)	Nil	Nil	Owned by Farakka Barrage project(FBP)
(xii) Farakka					
a. D/s Farakka of existing lock gate	1500	One(fixed)	Nil	Nil	Being used for embark/disembark of passenger/Tourist, loading/unloading of other logistics support.
b. U/s Farakka (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
2. Farakka - Barh : (400 km), Depth- 2.1 to 2.5					
(xiii)Rajmahal (Manglaghat)	600	One(Floating)	Nil	To be stored on Pontoon.	Being used for berthing of vessel, embark/disembark, loading/unloading and logistics support.
(xiv) MMT Sahibganj	1500	fixed RCC Jetty of 270m X 25m	1. Mobile harbour crane (1 Nos 50T capacity@ 17-18m outreach. 2. Barge loader with loading capacity	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.

<div>Table No. 1.2</div> <div>Infrastructure Facilities Available on National Waterways (As on 31-3-2022)</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
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 support.
(xvi) Bateshwarsthan	600	One (Floating)	Nil	To be stored on Pontoon.	Being used for berthing of vessel, embark/disembark, loading/unloading and logistics support.
(xiii) Samdaghat (Sahibganj)	600	One(Floating)	Nil	To be stored on Pontoon.	Being used for berthing of vessel, embark/disembark, loading/unloading and logistics support.
(xv) Bhagalpur	600	One(floating)	Nil	To be stored on Pontoon and open space of IWA's land 1000 Sq. m	Being used for berthing of vessel, embark/disembark, loading/unloading and logistics support.
(xvi) Munger	600	One (Floating)	Nil	To be stored on Pontoon	Being used for berthing of vessel, embark/disembark, loading/unloading and logistics support.
3. Barh-Ghazipur : (290 km),Depth - 1.6 to 2.0					
(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	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.
4. Ghazipur-Allahabad : (370 km) ,Depth -1.1 to 1.5					
* In Chunar- Allahabad stretch (198 km) Only Hy. Survey is being conducted					
(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.					

<div>Table No. 1.2</div> <div>Infrastructure Facilities Available on National Waterways (As on 31-3-2022)</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
1	2	3	4	5	6
National Waterways No. 2					
1. Bangladesh Border-Pandu: (255 km), Depth - 2.5					
(a) Dhubri	2000	One(Roc Ro Ro Jetty)	Crane prontoon	(i) 2 transit sheds of 25 x 15 m each(ii) open storage facility also available	(i) Storage facility is developed (ii) Customs & Immigration Facility is available
(b) Jogighopa	2000	One(floating)	Pontoon	Open storage facility available	
(c) Pandu	2000	One(low level RCC jetty) + One High level RCC jetty	One Container crane of 75 T capacity, two tyre mounted crane of 20 T capacity, one crane pontoon and one pontoon	(i)2 transit sheds of 75 x 21 m each (ii) open storage facility also available	(i) BG siding is completed 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 facility developed.
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 (Orumghat) : (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 Orumghat
(i) Orumghat	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.					

<div>Table No. 1.2</div> <div>Infrastructure Facilities Available on National Waterways (As on 31-3-2022)</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
1	2	3	4	5	6
National Waterways No. 3					
1. Kochi-Kottapuram : (30 km), Depth-2.0					
(a) Kottapuram	350.0	One 30m (RCC Jetty)	one 18 Ton mobile hydraulic crain and one 3 ton fork lift	300 sqm covered godown & 800 sqm open storage.	The Terminal building is leased out to Kerala State Warehousing Corporation w.e. from June 2018
2. Udyogmandal Canal : (23 km),Depth -2.0					
(b) Aluva	350.0	One 30m (RCC Jetty)	one 18 T Capacity Mobile Hydraulic Crane & One 3 T Capacity Forklift available.	300 sqm covered godown & 1500 sqm open storage.	Approach road is available.The Terminal building is leased out to Kerala State Warehousing Corporation for 7 years
3. Champakara Canal : (14 km), Depth - 2.0					
(c) Ernakulam GC (Maradu)	350.0	One 30m (RCC Jetty)	one 18 T Capacity Mobile Hydraulic Crane & one 3 T Capacity Forklift available.	300 sqm covered godown & 2000 sqm office area.	Approach road is available. Acquisition of land for widening of approach road for 8 mtr width is in progress.
(d) Kakkanad (CEPZ)	350.0	10m temporary Jetty		only land available	Approach road is available.
4. Kochi - Kollam : (138 km) , Depth - 2.0					
(e) Vaikkom	350.0	One 30m (RCC Jetty)	One 18 T Capacity Mobile Hydraulic Crane & One 3 T Capacity Forklift available.	300 sqm covered godown & 1200 sqm open storage.	Under consideration for handing over to KSWC.
(f) Chertala (Thanneermukkom)	350.0	One 30m (RCC Jetty)	One 18 T Capacity Mobile Hydraulic Crane & One 3 T Capacity Forklift available.	300 sqm covered godown & 1800 sqm open storage.	Approach road is available.
(g) Alapuzha	350.0	One 30m (RCC Jetty)	NA	300 sqm covered godown & 2500 sqm open storage.	Approach road is available.
(h)Trikunnapuzha	350.0	One 30m (RCC Jetty)	One 18 T Capacity Mobile Hydraulic Crane & One 3 T Capacity Forklift available.	300 sqm covered godown & 800 sqm open storage.	Approach road is available.
(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.
(j) 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
5. CPT Area : Depth -2.0					
(l) Willingdon island	16 TEU	One berth for container vessels	Nil	Nil	
(m) Bolgatty island	16 TEU	One berth for container vessels	Nil	Nil	
Source: 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 31-3-2022)

Sl. No.	Navigational Channel	Depth (Meters)	Availability and Capacity of Terminals					Remarks
			Place	Size of vessels that can be accommodated (DWT)/dimension	No. of berths	Cargo handling equip. and their capacity	Type and extent of storage facility available	
1	2	3	4	5	6	7	8	9
1	ANDHRA PRADESH							
	Kakinada to Puducherry		Nil					
2	BIHAR							
	Patna(Gaighat) (Ch. 955 Km.)	2.0m	Patna(Gaighat)/ 2.93 Acre	46.0 m berth 100 m WF	1 no. Low Level, 1 no. High Level Terminal	Store Crane 2 with capacity of 01-20 tonnes subject to radius	45m x 14m Transit shed and open space of IWA's land 1000 Sq. m	-
	Bhagalpur (Ch. 715Km)	2.5m	Bhagalpur / 3.86 Acre Land	35 m berth	1	Nil	To be stored on Pontoon and open space of IWA's 1000 Sq. m.	-
	Munger (Ch. 793km)	2.5m	Munger / 3.40 Acre Land	35 m berth	1	Nil		-
	Semaria (Ch. 850Km)	2.5m	Semaria	35 m berth	1	Nil	To be stored Pontoon. Private land could be made available if required	-
	Buxar (Ch. 1124Km)	2.0m	Buxar	35 m berth	1	Nil		-
3	GOA							
	Panaji Port (River Mandovi)	3.30 metres	Panaji	75 Mtrs Length	1	Nil	Nil	Ports jetty being used by vessels calling in the Ports

Table No. 1.3

Infrastructure Facilities Available on State Waterways (As on 31.3.2022)

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							
	Chilka Lake	1 to 2 Mtr.	Balugaon Krushnaprasadagda Kalija Satapada	5x15 Mtr 5x15 Mtr 5x15 Mtr 5x15 Mtr	2 1 1 20			
	Devi River	3 to 8 Mtr.	Astaranga Gandakula	5x15 Mtr 5x15 Mtr	1 1	Only passanger launches operating	N.A.	
	Baitarani River	3 to 8 Mtr.	Chandabali	5x15 Mtr	1			
	Dhamara	3 to 10 Mtr.	Nalitapatia Chradia Dhamara Kaninali Talchua	5x15 Mtr 5x15 Mtr 5x15 Mtr 5x15 Mtr 5x15 Mtr	1 1 1 1 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

Infrastructure Facilities Available on State Waterways (As on 31.3.2022)

Sl. No.	Navigational Channel	Depth (Meters)	Availability and Capacity of Terminals					Remarks
			Place	Size of vessels that can be accommodated (DWT)/dimension	No. of berths	Cargo handling equip. and their capacity	Type and extent of storage facility available	
1	2	3	4	5	6	7	8	9
6	MIZORAM							
7	Nagaland							
	-	-	-	-	-	-	-	Nil Hydrographic survey and Techno Economic feasibility of 20% done in respect Tizu & Zunki 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	Kerala							
	State Waterways	1.5 M	Irrigation Division,Kollam	-	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	-	0	Cheral Jetty, Chendamangalam Jetty, Eloor Jetty, Thattukadav Jetty	-	-
	-	-	Additional Irrigation Division, Thrissur	Nil	Nil	Nil	Nil	Nil
	-	-	Irrigation Division,Malappuram	Nil	Nil	Nil	Nil	Nil
	-	-	Irrigation Division, Kozhikkode	Nil	Nil	Nil	Nil	Nil
	-	2	Inland Navigation Division, Kollam	0	Nil	Nil	Nil	Nil
	Kotti Kottapuram 22.63 Km	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	-	-	-	-	-

Source : State Govts.

SECTION – 2

**CARGO MOVED ON
VARIOUS WATERWAYS**

Table No. 2.1

Cargo Movement on National Waterways

S. No.	Details of Waterways	Distance (Kms)	Cargo Moved (lakh Tonnes)				Tonne Kms (In Lakh)			
			2018-19	2019-20	2020-21	2021-22	2018-19	2019-20	2020-21	2021-22
1	2	3	4	5	6	7	8	9	10	11
1	National Waterway No. I (Allahabad-Haldia stretch of Ganga – Bhagirathi – Hooghly river system)	1620.00	73.49	91.12	92.06	109.28	37300.00	46240.00	23309.40	20082.07
2	National Waterway No. II (Sadiya-Dhubri stretch of Brahmaputra River system)	891.00	28.72	3.93	3.07	4.28	110.00	100.00	44.90	74.38
3	National Waterway No. III (Kollam-Kottapuram stretch of West Coast Canal along with Champakara Canal and Udyogmandal Canal)	205.00	4.20	5.46	7.38	16.95	80.00	100.00	214.80	179.19
4	National Waterway No. IV (Kakinada-Pudducherry stretch)*	2890.00	4.50	0.82	68.32	112.34	10.00	0.00	189.90	316.47
	Sub Total NWs	5606.00	110.91	101.33	170.83	242.85	37500.00	46440.00	23759.00	20652.11
5	Goa Waterways	202.00	37.60	29.33	84.61	45.78	1851.52	1467.00	4124.40	2155.39
6	Maharashtra Waterways	453.00	283.40	243.93	282.10	436.06	15300.00	13172.00	5697.00	1592.35
7	Gujarat Waterways		288.20	310.15	257.12	293.67	4323	4652	4413	3117.61
8	Sunderban Waterways	172	32.30	34.61	38.61	61.03	5600	5988	6558.7	10160.54
9	Ichhamati +others				2.84	8.54				716.17
	Grand Total	6433.00	752.41	719.35	836.11	1087.93	64574.52	71719.00	44552.10	38394.17

Source: Inland Waterways Authority of India (IWAI)

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

Table No. 2.2

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

							(In tonnes)
Sl. No.	River/Stretch	Approximate Distance (Kms)	2018-19	2019-20	2020-21	2021-22	Cargo generally moved
1	2	3	4	5	6	7	8
A. CIWTC							
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	Kolkatta- Ichamati River at Basirhat	2.00	...		...		Sand, Clips
	Sub Total (A)		0	0	0	0	Sand, Clips
B. VIVADA IWL							
1	Haldia-Sagar	35	0				FO/HF HSD
2	Haldia-Budge-Budge	78/84	57182			52928	FO, HF HSD, Lube
3	Haldia-KPD /NSD/RVM	106/105	63964			51688	HF HSD, Lube Oil, FO
4	Haldia-Diamond Harbour	29	1244			295	FO, HF HSD
5	Budge-Budge-NSD/KPD/RVM/Suri	21/19	440				HF, HSD, FO
6	Haldia- J'Ham	10	17407			21364	FO, HF HSD
7	Budge-Budge-KPD	21	0				FO, HSD
8	Haldia-Namkhana	46	2165			1614	HF, HSD
9	Budge-Budge-Pujali	5	0				LDO
10	Haldia-Haldia Oil Barge	3	83882			59878	FO, HF HSD
11	Haldia-Haldia Oil Jetty	3	71782			67176	FO, HF HSD
12	Surinam-KPD	2	0				FO
13	Surinam-NSD	1	0				HSD, HF
14	Haldia-HOB	3	0				
15	Haldia-KPD	105	0				
16	Haldia- Noorpur	43	0				
17	Haldia-Ramnagar	101	0				LUBE
18	Budge Budge - Kolkatta	21	0				HF, HSD
19	Haldia-Titagar	127	82				HF HSD
20	Haldia-RVM	10					
	Sub Total (B)		298149	0	0	254943	
C. ICSL(Inland & Coastel Shipping Limited)							
1	MMT Varanasi - Gaighat (Patna) -Kolkata	2336	...	...	65		Fertilizer, Rice Husk
2	IWT Terminal Gaighat-Kolkata	1630	...	...	275		Carbon, Rice Husk, Food Grains
3	Kolkata-IWT Terminal Gaighat	815	...	...	50	220	Food Grains
4	Kolkata to IWT Terminal Gaighat, Patna	815				190	Edibal oil
5	IWT Terminal Gaighat, Patna to Pandu, Guwhati	2350				200	Rice
	Sub Total (C)				390	610	
D. OTHER PRIVATE OPERATORS							
1 Adani Logistic Ltd.							
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
2 TIRUPATI VESSEL (P) LTD.							
1	Budge- Budge(Kol)- Khulna	497	6514	1652		6262	Flyash
2	Budge- Budge Narayanganj	884	208548	165646		235398	Flyash
3	Budge- Budge- Mongla	484	0				
4	G. R. Jetty-2 to Khulna	522				676.000	Flyash

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

(In tonnes)							
Sl. No.	River/Stretch	Approximate Distance (Kms)	2018-19	2019-20	2020-21	2021-22	Cargo generally moved
1	2	3	4	5	6	7	8
5	G. R. Jetty-2 to Narayanganj	909				3,222.000	Flyash
6	IWAI Haldia Jetty-Khulna	439	50541	31258		23238	Flyash
7	IWAI Haldia Jetty-Narayanganj	826	41426	73106		136106	Flyash
8	IWAI Haldia Jetty-Pangaon	842				508.000	Flyash
9	Samdaghat (Sahebganj) to Manihari	14	348280	381400	259200		Stone chips
10	Garamghat (Sahebganj) to Manihari	2658	...	...	140600		Stone chips
3	Krishna Shipping & Logistics						
1	Hathidah - Semaria	20	...	...	3000		Stone chips
2	Garamghat (Sahebganj) to Manihari	6012	...	...	417200		Stone chips
4	Varcel Shipping Pvt. Ltd.						
1	MMT/Ro-Ro Sahibganj to Manihari	240	...	...	5600		Stone chips
2	Samdaghat (Sahebganj) to Manihari	966	...	...	31700		Stone chips
5	Mahalakshmi Engicon Pvt. Ltd.						
1	MMT/Ro-Ro Sahibganj to Manihari	90	...	...	2400		Stone chips
2	Samdaghat (Sahebganj) to Manihari	980	...	...	34500		Stone chips
6	Jay Bajranjbali stone work						
1	MMT/Ro-Ro Sahibganj to Manihari	360	...	...	13200		Stone chips
2	Samdaghat (Sahebganj) to Manihari	1434	...	...	51500		Stone chips
7	Eastern Navigation Pvt. Ltd.						
1	Samdaghat (Sahebganj) to Manihari	2010	...	...	67000		Stone chips
8	Maitrayee Shipping & Logistics						
1	IWAI BISN Jetty-Narayanganj	909	4152	6410			Flyash
2	IWAI BISN Jetty-Khulna	522	0				Flyash
3	T.T.Shed-Narayanganj	910	33433	22663	1068		Flyash
4	T.T.Shed-Mongla	510	0				Flyash
5	Budge Budge- Narayanganj	884	13993	8992	1450		Flyash
6	Budge Budge- Khulna	497	0				Flyash
7	Sri Ram Jetty - Narayanganj	905	0				Flyash
8	Budge Budge - Karimganj	1332	0				Flyash
9	IWAI BISN Jetty - Karimganj	1357	0				Flyash
10	Karimganj-T. T. Shed	1358	0				Iron Fabricated
11	Gr Jetty II - Narayanganj	909	10352	3240			Flyash
9	P K Shipping						
1	Orient Jute Mill- Ashuganj	1015	0				Rice
2	Budge- Budge Narayanganj	884	0				Flyash
3	Narayanganj- T.T.Shed	910	0				Cement
4	K.P.Dock-Narayanganj	910	0				Prime mild steel billets, Steel Coils & Plates
5	Haldia H.D.C.-Karimganj	1274	0				Coal
6	KP Dock- Ashuganj	1038	0				Steel Materials / GC Sheet, Rice
7	Kolkatta-Karimganj	1358	0				ODC Kargo
8	Diamond Harbour-Ashuganj	962	0				Food Grain (Rice)
9	Sri Ram Jetty-Narayanganj	905	0				Flyash
10	K.P.Dock-Khulna	523	0				Dolomite Powder, Steel Sheet
11	T.T.Shed - Narayanganj	910	0				Flyash
12	IWAI BISN Jetty - Narayanganj	909	0				Flyash
13	K.P.Dock-Mongla	510	0				Steel Plate,Prime Hot Rolled Non Alloy Steel Coils & Plates, Prime
14	G.R. Jetty-II-Khulna	1357	0				Project Cargo

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

(In tonnes)							
Sl. No.	River/Stretch	Approximate Distance (Kms)	2018-19	2019-20	2020-21	2021-22	Cargo generally moved
1	2	3	4	5	6	7	8
10	SOHAM COMMERCIAL						
1	Sri Ram Jetty-Narayanganj	905	0				Flyash
2	Kolkatta(Sri Ram Jetty)-Narayanganj	905	0				Flyash
3	T.T.Shed-Narayanganj	910	3288				Flyash, Stone Chips
4	T.T.Shed-Khulna	523	4335				Stone Chips
5	Khulna - FSEZ Jetty(Falta), Kolkatta, India	472	0				Jute Carpet, Baking Cloth
6	KPD - Khulna	523				3,240.800	Coal
7	KPD - Mongla	510				2,192.800	Steam Coal
8	KPD - Narayanganj	910	0				Steel Coil
9	IWAI BISN Jetty - Narayanganj	909	0				Flyash
10	IWAI BISN Jetty - Khulna	522	0				Flyash
11	IWAI Haldia Jetty-Narayanganj	826				853.000	Flyash
12	Putimari Jetty-Khulna (Sohom Overseas)	906.5	6356				Stone Chips
11	RENAISSANCE IMPEX Pvt Ltd						
1	IWAI BISN Jetty-Narayanganj	909	0				Flyash
2	IWAI BISN Jetty-Karimganj Assam	1357	0				Flyash, HDPE Bags, Coal
3	Sri Ram Jetty-Narayanganj	905	0				Flyash
4	Karimganj Assam-IWAI BISN Jetty	1357	0				Coal
5	IWAI Haldia Jetty- Narayanganj	826	0				Flyash
6	Shri Ram Jetty- Mongla	505	0				Flyash
7	TT Shed-Narayanganj	910	0				Flyash
8	Budge Budge Naryanganj	884	0				Flyash
9	Budge Budge Karimganj	1332	0				Flyash
10	KPD - Mongla	510	0				Prime Hot Roll Non Alloy Steel Coils
11	TT Shed-Khulna	523	0				Flyash
12	GR Jetty II- Narayanganj	909	0				
13	IWAI Haldia Jetty- Khulna	439	0				Flyash
12	Rivering Shipping & Logistics						
1	IWAI Haldia Jetty-Khulna	439	0	5207	9251	14,849.000	Flyash
2	IWAI Haldia Jetty-Mongla	426				627.000	Flyash
3	Budge- Budge (Kol)- Khulna	497	11145	18867	33004	49,608.000	Flyash
4	Budge Budge-Naryanganj	884	39480	180299	173970	146,582.000	Flyash
5	TT Shed-Narayanganj	910	44885	178430	157579	177,069.000	Flyash
6	K P Dock- Khulna	523	0			9,847.700	Rice / Hard Coke & High Ash Coke / Wheat
7	Sri Ram Jetty-Khulna	518	0				Flyash
8	Sri Ram Jetty-Narayanganj	905	0				Flyash
9	IWAI Haldia Jetty-Narayanganj	826	24374	261254	273726	428,364.000	Flyash
10	K P Dock- Mongla	510	0	1719			Maize
11	NSD - Mongla	508	0			7932.4	Mill Rejected Coal / Coal
12	NSD - Narayanganj	909				13810.34	Wheat / Wire Rod Coil & Sponge Iron
13	IWAI BISN Jetty-Khulna	522	0	4837	6847	1,659.000	Flyash
14	IWAI BISN Jetty-Narayanganj	909	2598	13414	18987	15848	Flyash
15	GR Jetty II- Khulna	522	1573	6633	10437	9,461.000	Flyash / Stone Aggregates
16	HDC Fly Ash Jetty Haldia-Narayanganj	826	9552	60435	31906	57,328.000	Flyash
17	T.T.Shed-Khulna	523	741	6006	5511		Flyash
18	Kolaghat-GR Jetty II	97	0				Cement
19	GR Jetty II- Narayanganj	909	8311	59743	91068	106,958.000	Flyash
20	GR Jetty II - Mongla	509	0			2,850.000	Rice, De Oiled Rice Bran Extraction, Fly Ash, Stone Chips
21	HDC Fly Ash Jetty Haldia-Khulna			644	697	1,438.000	ODC / Fly Ash
22	Haldia-Pandu			3754			Container, Coal

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

(In tonnes)							
Sl. No.	River/Stretch	Approximate Distance (Kms)	2018-19	2019-20	2020-21	2021-22	Cargo generally moved
1	2	3	4	5	6	7	8
23	IWAI BTPS-Khulna			1568	2222		Flyash
24	IWAI BTPS Jetty-2 - Narayanganj				52355	131384	Flyash
25	TT Shed-Mongla			117			ODC
26	G.R. Jetty-2, Kolkata / HDC, Haldia - Narayanganj				130		2 nos. Containers (20 Teu's) from G. R. Jetty-2 & 6 nos. Containers (20 Teu's) from HDC Haldia
27	HDC, Haldia - Narayanganj	826			1352	21142	Sponge Iron in Container (45 TEU) / Sponge Iron / Coal
28	HDC, Haldia - Mongla	426				1281	Coal
29	HDC, Haldia - Pangaon	839				1355	White Refined Sugar in Container (20 Teu / 50 nos.)
30	IWAI BISN Jetty - Mongla	509			762		Fly ash
31	K P Dock- Khulna	523			876		Fly ash
32	K P Dock- Narayanganj	910			16662	300749	Fly Ash / Sponge Iron / Rice / Wheat / High Ash Coke / Quartzite Mould Powder Silico Manganese / Soda Ash Light / Building Construction Material / Ferro Silico Manganese / Steel item (Angle Bars) / Coal / Maize / Hard Coke / Raw Cotton / Hard Coke / Prime Sheet Pile
33	K P Dock- Mongla	510			62018	99894	Sponge Iron / Rice / Stone Chips / Maize / Wheat / Project Cargo / Iron Material / Lattice Steel Tower Accessories / Hot rolled steel angles & accessories / Galvanised Transmission Tower Parts / Hard Coke & High Ash Coke / Iron & Steel item / Prime Mild Steel Hot Rolled Plates
34	K P Dock- Khulna	523			1699		Rice
35	K P Dock- Narayanganj	910			1604		Rice
36	K P Dock- Pangaon	923				4885	Maize / Raw Cotton Bales
37	Pangaon - G. R. Jetty-2	923				927	Empty Containers 36 nos.
38	Mongla - K P Dock	510				104	Travel Bags / Luggage (Import Cargo)
39	N. S. Dock, Kolkata - Mongla					423	Crane Body & Hydraulic Crane (ODC)
13	GLOBAL SHIPPING & Forwarding						
1	Budge Budge-Narayanganj	884	840	2294		1100	Flyash
2	Budge Budge-Khulna	497	19153	20977	6048	3338	Flyash
3	IWAI BISN Jetty-Khulna	522	890	1980			Flyash
4	IWAI BISN Jetty-Narayanganj	909	0				Flyash
5	T.T.Shed-Khulna	523	2221	1110			Flyash
6	IWAI Haldia Jetty - Khulna	439	882	1820			Flyash
7	T.T.Shed-Narayanganj	910	860	1599			Flyash
8	IWAI Haldia Jetty - Narayanganj	826	0				Flyash
9	Sri Ram Jetty-Narayanganj	905	0				Flyash
10	HDC Fly Ash Jetty Haldia-Khulna	439	5007	1632			Flyash
11	HDC Fly Ash Jetty Haldia-Narayanganj	826	780	850			Flyash
12	Sri Ram Jetty-Narayanganj	905	0				Flyash
13	Sri Ram Jetty-Khulna	518	0				
14	GR Jetty II- Khulna	522	1678	1892			Flyash
15	Budge Budge-Mongla	484	888				Flyash
16	KPD, Kolkata -Mongla	510			12612	5919	Rice
14	COASTAL CONNEXIONS						
1	Budge Budge-Narayanganj	884	2386				Flyash
2	Budge Budge-Karimganj	1332	0				Flyash
3	Budge Budge-Khulna	497	21024	1438			Flyash
4	IWAI BISN Jetty-Narayanganj	909	0				Flyash
5	BISN Jetty-Narayanganj	1357	0				Flyash

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

(In tonnes)							
Sl. No.	River/Stretch	Approximate Distance (Kms)	2018-19	2019-20	2020-21	2021-22	Cargo generally moved
1	2	3	4	5	6	7	8
6	IWAI BISN Jetty-Karimganj	1357	0				Flyash
7	BISN Jetty-Karimganj	1357	0				Coal
8	IWAI BISN Jetty-Khulna	532	0				Flyash
9	IWAI Haldia Jetty-Khulna	439	9291				Flyash
10	IWAI Haldia Jetty-Narayanganj	826	0				Flyash
11	Karimganj(Badarpur, Assam) - Narayanganj	478	0				Cement Clinker
12	GR Jetty II - Khulna	522	4256				Flyash
15	KANISHKA SHIPPING LINES						
1	Budge Budge-Narayanganj	884	13236	3884	12995	29117	Flyash
2	IWAI Haldia Jetty-Narayanganj	826	168868	108931		147941	Flyash
3	Sri Ram Jetty-Khulna	518	0				Flyash
4	T.T.Shed-Narayanganj	910	59215	87546	40354	24079	Flyash
5	Sri Ram Jetty-Narayanganj	905	0				Flyash
6	IWAI BISN Jetty-Khulna	522	34832	36371	22119	626	Flyash
7	IWAI BISN Jetty-Narayanganj	895/909	17474	46453	57036	7414	Flyash
8	T.T. Shed - Mongla	510	0				Flyash
9	IWAI Haldia Jetty-Khulna	439	43339	12424	50161	15283	Flyash
10	IWAI Haldia Jetty-Mongla	426	0				Flyash
11	IWAI Haldia Jetty - Narayanganj	826			104510		
12	IWAI BTPS-Khulna	577				2178	Flyash
13	Diamond Harbour - Ashuganj	962	0				Foodgrain(Rice)
14	HDC Fly Ash Jetty-Narayanganj	826	650		1554	3901	Flyash
15	T. T.Shed-Khulna	523	21136	16840	2781	864	Flyash
16	KPD-Mongla	510	2005.97	3949			Machinery, Steel Cargo, Steam Turbine Associated
17	Budge Budge-Khulna	497	6999	2427	2560	1433	Flyash
18	GR Jetty 2- Narayanganj	909	102712	72713	51437	89527	Flyash
19	G.R. Jetty-2 - Mongla	509			2330	2712	Fly ash, Stone Chips
20	HDC Fly Ash Jetty-Khulna	439	0				
21	Budge Budge - Mongla	484	0				Flyash
22	GR Jetty II- Khulna	522	25357	48508	13297	12050.24	Flyash / Rice
23	GR Jetty II - Narayanganj	909	0				Rice Brown
24	HDC - Ashuganj	954	1731.58				Steel Pipe
25	KPD- Narayanganj	910				23459	Wire Rod Coil / Wheat / Rice
26	KPD-Khulna	523				44583.5	Rice / Wheat
27	Putimari Jetty-G.R. Jetty-2	384.5	720				Stone Chips
28	Putimari Jetty-Mongla(Star Mourya Power)	893.5	1210				Stone Chips
29	GR Jetty II- Mongla	509	9171.07	3847		1379.53	Wheat
30	NSD - Mongla	508	2069.07				Steam Turbine, Steel Cargo Associated
31	HDC - Narayanganj	826	4188.59	1987		8677.21	Hot Rolled Steel Coils / Coal / Wheat / Maize
32	HDC - Pandu			2257			Coal
33	IWAI BTPS-Narayanganj			7879	4087	8742	Flyash
34	KPD, Kolkata - Mongla	510			11404.419	14350.1	Rice / Wheat
35	Narayanganj - T.T. Shed	910			320		Pran Litchi Fruit Drink
16	Eastern Navigation Pvt Ltd., Kolkatta						
1	Kolkatta-Zamania	1065	0				ODC Cargo
2	Kolkatta-Silghatghat	1748	0				ODC Cargo
3	Haldia-Silghatghat	1664	0				ODC Cargo
4	T.T. Shed - Pandu	1573	0				Control & Protection Equipments for HVDC
5	Kolkata-Jogigopa, Assam	1432	981				ODC Cargo
6	Rajmahal to Atthmalgola	303	0				Steam Turbine of complete Generator Stator
7	Atthmalgola to Bakhtiyarpur	30	0				Crawler crane

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

(In tonnes)							
Sl. No.	River/Stretch	Approximate Distance (Kms)	2018-19	2019-20	2020-21	2021-22	Cargo generally moved
1	2	3	4	5	6	7	8
8	Mahenderpur to Munger	27	0				Crawler crane
9	Manglahat-Doriganj			1774			ODC Cargo
17	A.K.Navigation						
1	T.T.Shed-Narayanganj	910	0				Flyash
2	T.T.Shed-Khulna	523	0				Wheat
18	Desha International						
1	Budge Budge-Narayanganj	884	270594	115389			Flyash
2	IWAI Haldia Jetty-Khulna	439	16935	9518			Flyash
3	IWAI Haldia Jetty-Mongla	426	3453				Flyash
4	Budge Budge-Khulna	497	53414	20684			Flyash
5	IWAI BISN Jetty-Narayanganj	909	4257	11074			Flyash
6	IWAI BISN Jetty-Karimganj	1357	0				Flyash
7	BISN Jetty-Karimganj(Badarpur)	1357	0				Coal
8	Sri Ram Jetty-Mongla	505	0				Flyash
9	Sri Ram Jetty-Khulna	518	0				Flyash
10	Sri Ram Jetty-Narayanganj	905	0				Flyash
11	T.T.Shed-Mongla	510	0				Wheat,Soyabean Extraction, Maize
12	T.T.Shed-Khulna	523	6920	2063			Flyash
13	T.T.Shed-Narayanganj	910	102426	66311			Flyash
14	K.P.Dock-Mongla	510	5229	1929			Rice, Steel Plates, Rapeseed Extraction
15	K.P.Dock-Khulna	523	90				Steel Plates, Pipes & Accessories
16	IWAI Haldia Jetty-Narayanganj	826	519361	176464			Flyash
17	IWAI BISN Jetty-Khulna	532/522	685				Flyash
18	Budge Budge- Mongla	484	1610				Flyash
19	IWAI BISN Jetty (kol)- Mongla	509	0				Flyash
20	K.P.Dock-Narayanganj	910	1786				Soyabean Extraction, Steel Plates Sponge iron
21	NSD - Narayanganj	908	0				Soyabean Extraction, Maize
22	NSD- Mongla	508	3331				Maize, Steel Plate,Project Cargo
23	Gr. Jetty II - Mongla	509	3451				Rice, Soyabean Extraction, Stone Chips, Railway Track, Steel Plates, De Oiled Rice Bran Extraction, Project cargo
24	IWAI Haldia Jetty-Karimganj	1274	0				Flyash
25	HDC-Mongla	426	0				Steel Coils
26	HDC Fly Ash Jetty-Narayanganj	826	51355	11074			Flyash
27	GR Jetty II- Narayanganj	909	29019	24422			Flyash, Parboiled Rice
28	GR Jetty II- Khulna	522	8288	27667			Flyash, Stone Chips
29	HDC Fly Ash Jetty-Khulna	439	842	838			Flyash
30	KPD - Narayanganj	910	0				Rapseed Extraction
31	IWAI Haldia Jetty - Ashuganj	945	0				Edible Oil
32	HDC - Narayanganj	826	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
38	Falta Jetty-Ashuganj			2850			
19	Reliance Enterprise						
1	Budge Budge-Narayanganj	884	0				Flyash
2	Budge Budge-Khulna	497	0				Flyash
3	Sri Ram Jetty-Khulna	518	0				Flyash
4	IWAI BISN Jetty-Narayanganj	909	0				Flyash
5	T.T.Shed-Narayanganj	910	0				Flyash

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

(In tonnes)							
Sl. No.	River/Stretch	Approximate Distance (Kms)	2018-19	2019-20	2020-21	2021-22	Cargo generally moved
1	2	3	4	5	6	7	8
7	IWAI Haldia Jetty-Narayanganj	826	0				Flyash
8	IWAI Haldia Jetty-Khulna	439	0				Flyash
9	Sri Ram Jetty-Narayanganj	905	0				Flyash
20	Saha Oversees Corporation						
1	Budge Budge-Narayanganj	884	0				Flyash
2	Sri Ram Jetty-Khulna	518	0				Flyash
3	T.T.Shed-Narayanganj	910	0				Flyash
21	C. Day & Brothers						
1	Budge Budge-Narayanganj	884	53294	26449	35051	11,527.000	Flyash
2	Budge Budge-Khulna	497	7749	2970	4571		Flyash
3	Sri Ram Jetty-Khulna	518	0				Flyash
4	Sri Ram Jetty-Narayanganj	905	0				Flyash
5	IWAI Haldia Jetty-Mongla	426	0				Flyash
6	IWAI Haldia Jetty-Khulna	439	655	3290	4113	3,026.000	Flyash
7	IWAI BISN Jetty-Narayanganj	909	5239	21254	27069	985.000	Flyash
8	IWAI Haldia Jetty-Narayanganj	826	61333	160101	188449	131,841.000	Flyash
9	T.T.Shed-Khulna	523	0	1190	2590		Flyash
10	T.T.Shed-Narayanganj	910	1394	27930			flyash, Ironfines
11	IWAI BISN Jetty - Khulna	522	654	2803		542.000	Flyash
12	HDC Fly Ash Jetty-Narayanganj	826	0				Flyash
13	HDC Fly Ash Jetty-Khulna	439	1414		85743		Flyash
14	GR Jetty II- Narayanganj	909	13783	72518		48,819.200	Rice / Flyash
15	GR Jetty II- Khulna	522		6771	7815	6,400.000	Fly ash
16	G.R. Jetty-2 - Mongla	509			2323.44	1,269.920	Rice / Flyash
17	KPD, Kolkata - Narayanganj	910			1808.12	15,711.600	Fly Ash / Wheat / Maize
18	KPD, Kolkata - Khulna	523				11,658.730	Rice
19	KPD, Kolkata - Mongla	510				1,650.000	Rice
20	T.T.Shed-Narayanganj	910			25248	10,658.000	Fly ash
22	Fortune Cargo (India Pvt Ltd)						
1	Budge Budge-Narayanganj	894/884	33428	5566			Flyash
2	IWAI Haldia Jetty-Narayanganj	826	2133				Flyash
3	T.T.Shed-Narayanganj	910	28342	9032			Flyash
4	IWAI BISN Jetty-Khulna	522	0				Flyash
5	IWAI BISN Jetty-Narayanganj	909	10165	2586			Flyash
6	T.T.Shed-Khulna	523	0				Flyash
7	Sri Ram Jetty - Narayanganj	905	0				Flyash
8	Sri Ram Jetty - Khulna	518	0				Flyash
9	IWAI Haldia Jetty-Khulna	439	0				Flyash
10	Budge Budge-Khulna	497	3261				Flyash
11	G.R. Jetty-II-Narayanganj	909	9816	6276			Flyash
12	G.R. Jetty-II-Khulna			800			
23	Sea Water Transport Co. Pvt Ltd						
1	T.T.Shed-Khulna	523	0				Wheat
2	K.P. Dock-Mongla	510	0				Steel Coils, Steel Plates, Steel items
3	IWAI Haldia Jetty-Mongla	426	0				Flyash
4	IWAI BISN Jetty-Khulna	522	0				Flyash
24	Krishna Shipping & Logistics						
1	Budge Budge- Narayanganj	884	0				Flyash
2	Budge Budge- Karimganj	1332	0				Flyash
3	TT Shed- Narayanganj	910	0				Flyash
4	Kolkatta- Pandu	1432	0				ODC Cargo

Table No. 2.2

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

(In tonnes)							
Sl. No.	River/Stretch	Approximate Distance (Kms)	2018-19	2019-20	2020-21	2021-22	Cargo generally moved
1	2	3	4	5	6	7	8
5	G.R. Jetty-II-Ashuganj	1037	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	1,729.240	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
25	Varcel Shipping Pvt. Ltd.						
1	MMT/Ro-Ro Sahibganj to Manihari	240	...	...	5600		Stone chips
2	Samdaghat (Sahebganj) to Manihari	966	...	...	31700		Stone chips
26	Mahalakshmi Engicon Pvt. Ltd.						
1	MMT/Ro-Ro Sahibganj to Manihari	90	...	...	2400		Stone chips
2	Samdaghat (Sahebganj) to Manihari	980	...	...	34500		Stone chips
27	Jay Bajranjali stone work						
1	MMT/Ro-Ro Sahibganj to Manihari	360	...	...	13200		Stone chips
2	Samdaghat (Sahebganj) to Manihari	1434	...	...	51500		Stone chips
28	Eastern Navigation Pvt. Ltd.						
1	Samdaghat (Sahebganj) to Manihari	2010	...	...	67000		Stone chips
29	Neli						
1	Budge Budge-Narayanganj	884	0			1,332.000	Flyash
2	IWAI Haldia Jetty-Narayanganj	826	0	6616	8568	7,214.000	Flyash
3	IWAI BISN Jetty-Narayanganj	909	3330	8956	21280	17,487.000	Flyash
4	T.T. Shed - Narayanganj	910	9866	12151	22951	25,339.000	Flyash
5	T.T. Shed - Khulna	523	0				Flyash
6	Budge Budge-Khulna	497	0				Flyash
7	Sri Ram Jetty- Mongla	505	0				Flyash
8	Sri Ram Jetty- Khulna	518	0				Flyash
9	Budge Budge- Karimganj	1332	0				Flyash
10	Kolkatta- Narayanganj	894	0				Flyash
11	IWAI BISN Jetty-Karimganj	1357	0				Flyash
12	T.T. Shed-Mongla	510	0				Flyash
13	GR Jetty II- Narayanganj	909	0			4,567.000	Flyash
14	Sri Ram Jetty- Narayanganj	905	0				Flyash
30	Ajbela Navigation						
1	Sri Ram Jetty-Khulna	518	0				Flyash
2	Sri Ram Jetty-Narayanganj	905	0				Flyash
3	K.P.Dock-Khulna	523	0			5,249.800	Rice / Stone Chips
4	T.T.Shed-Narayanganj	910	23336	2177	20366	7,892.000	Flyash
5	T.T.Shed-Mongla	510	0		1150		Maize
6	T.T.Shed-Khulna	523	1075	1410		2,136.000	Flyash
7	HDC Fly Ash Jetty-Narayanganj	826	13326		680	4,835.000	Flyash
8	Budge Budge-Narayanganj	884	25402	8563	57811	52,818.000	Flyash
9	Budge Budge-Khulna	497	7013	3171	14000	15,254.000	Flyash
10	IWAI Haldia Jetty-Mongla	426	0		1142		Flyash
11	IWAI Haldia Jetty-Khulna	439	0	2116	3441	2,928.000	Flyash
12	IWAI Haldia Jetty-Narayanganj	836/826	24270	12188	48252	60,813.000	Flyash
13	IWAI BISN Jetty - Narayanganj	909	744	2923	4434	3,078.000	Flyash

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

(In tonnes)							
Sl. No.	River/Stretch	Approximate Distance (Kms)	2018-19	2019-20	2020-21	2021-22	Cargo generally moved
1	2	3	4	5	6	7	8
14	IWAI Haldia Jetty-Karimganj	1274	0				Flyash
15	GR Jetty II - Narayanganj	909	2831	3708	11211	14,066.000	Flyash
16	GR Jetty II - Mongla	509	0	2115		5,772.400	Rice / Flyash / Stone Chips
17	GR Jetty II - Khulna	522	925	1195		1,090.000	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	52,867.000	Fly ash
24	IWAI BTPS Jetty-2, Tribeni - Mongla	564			4400	4,093.000	Fly ash
25	KPD, Kolkata - Narayanganj	910			6529.18	62,761.500	Fly Ash / Sponge Iron / Wheat / Coal / DORB Extraction / Raw Cotton
26	KPD, Kolkata - Mongla	510			16330.28	180,758.600	Project Cargo / Rice / Maize / Project Cargo / Rapseed Extraction (DORB) / Stone Chips / Wheat / DORB Extraction / High Carbon Wire Rod / Coal / Raw Cotton / Sponge Iron / Lattice Steel Tower Accessories
27	KPD, Kolkata - Mongla	510			2205.28		Rice
28	KPD, Kolkata - Narayanganj	910			1040.32		Sponge Iron
29	KPD, Kolkata - Pangaon	923				1,215.500	Wheat
30	Mongla - KPD, Kolkata	510				112.100	Travel Bags / Luggage (Import Cargo)
31	Reach Asia						
1	Kolkatta-Jogighopa, Assam	1392	0				ODC Cargo
32	Neticon						
1	KP Dock- Khulna	510	0				Wheat
33	Duttson						
1	T.T.Shed-Narayanganj	910	6309				Flyash
2	IWAI BISN Jetty-Narayanganj	909	545				Flyash
3	Budge Budge-Narayanganj	884	32341	4784			Flyash
4	IWAI Haldia Jetty - Mongla	426	0				Flyash
5	IWAI Haldia Jetty - Narayanganj	826	26421	4925			Flyash
6	IWAI Haldia Jetty - Khulna	439	0				Flyash
7	IWAI BISN Jetty-Khulna	522	0				Flyash
8	IWAI BISN Jetty-Karimganj	1357	0				Flyash, Spare parts
9	Budge Budge-Karimganj	1332	0				Flyash
10	Karimganj(Badarpur) - Narayanganj	478	0				Cement Clinker
11	Sri Ram Jetty - Narayanganj	905	0				Flyash
12	IWAI Haldia Jetty-Karimganj	1274	0				Flyash
13	Budge Budge-Khulna	497	2120				Flyash
14	GR Jetty II- Narayanganj	909	2310				Flyash
15	HDC Fly Ash Jetty-Narayanganj	826	0				Flyash
16	T.T.Shed-Khulna	523	1430	724			Flyash
17	Sri Ram Jetty - Khulna	518	0				Flyash
18	KPD- Mongla	510	0				Rice
19	HDC Fly Ash Jetty-Khulna	439	726				Flyash
34	Seaways Shipping & Logistics Ltd.						
1	KP Dock - Mongla	510	0				Steel Plates, Steel coils, Steel items
35	J.D.Shipping						
1	Budge Budge-Narayanganj	884	59298	84167		2,794.000	Flyash
2	Sri Ram Jetty(Kol) - Narayanganj	905	0				Flyash
3	Sri Ram Jetty(Kol) - Khulna	518	0				Flyash
4	Sri Ram Jetty(Kol) - Mongla	505	0				Flyash

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

(In tonnes)							
Sl. No.	River/Stretch	Approximate Distance (Kms)	2018-19	2019-20	2020-21	2021-22	Cargo generally moved
1	2	3	4	5	6	7	8
5	IWAI Haldia Jetty - Narayanganj	826	10231	6035	16037	10,083.000	Flyash
6	KP Dock - Mongla	510	0	9015			Steel plate, Steel items
7	KP Dock - Narayanganj	910	0				Machinery
8	KP Dock - Khulna	523	0				Steel plate
9	T.T. Shed - Narayanganj	910	22106	34807	2348	2,177.000	Flyash
10	IWAI BISN Jetty - Narayanganj	909	2528	3670			Flyash
11	HDC Fly Ash Jetty-Narayanganj	826	72820	73890	711	8,504.000	Flyash
12	Karimganj - Ashuganj	320	0				Lime Stone
13	G.R. Jetty II - Narayanganj	909	0	5159	3674	2,930.000	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
36	Ganga Water Transport						
1	K.P.Dock-Mongla	510	0				Wheat
2	K.P.Dock-Narayanganj	910	0				Non Alloyed Hot Rolled Steel Coil
3	Budge Budge - Khulna	497	0				Flyash
37	Bertling Logistic India Pvt.Ltd.						
1	Haldia-Balia	1028	0				ODC Cargo
2	Kolkata - Balia	923	0				ODC Cargo
38	Venketesh Logistics						
1	Haldia-Bhaktiyarpur	885	0				ODC Cargo
39	All Cargo Logistics Ltd.						
1	Haldia-Zamania	1170	0				ODC Cargo
2	Haldia - Biswanath Chareli, Assam(NW2)	1730/1694	0				ODC Cargo
3	T.T. Shed - Biswanath Charlie	1778	0				ODC Cargo
4	Haldia-Jogijopa	1348	0				ODC Cargo
5	Kolkata - Jogijopa	1432	0				ODC Cargo
6	T.T. Shed - Jogijopa	1432	0				ODC Cargo
7	T.T. Shed - Pandu	1573	0				ODC Cargo
8	T.T. Shed - Silghat	1721	0				ODC Cargo
9	NSD, Kolkata-Pandu	1573	0				ODC Cargo
10	Haldia-Bhaktiyarpur	885	0				ODC Cargo
11	Kolkatta- Bhaktiyarpur	780	0				ODC Cargo
12	T.T. Shed - Silchar	1438	0				ODC Cargo
40	Prism Logistics Pvt.Ltd.						
1	Haldia-Allahabad	1512	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	350.316	Over Dimensional Cargo
5	Budge Budge - Khulna	484			355.98		Over Dimensional Cargo

Table No. 2.2

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

(In tonnes)

Sl. No.	River/Stretch	Approximate Distance (Kms)	2018-19	2019-20	2020-21	2021-22	Cargo generally moved
1	2	3	4	5	6	7	8
41	Safehand Logistics						
1	IWAI BISN Jetty - Karimganj (Badarpur)	1357	0				Flyash
2	Budge Budge - Narayanganj	884	7581	7508	10851		Flyash
3	IWAI Haldia Jetty - Narayanganj	826	4172	921			Flyash
4	IWAI Haldia Jetty - Khulna	439	781				Flyash
5	IWAI BISN Jetty - Narayanganj	909	0	1088			Flyash
6	Sri Ram Jetty-Narayanganj	905	0				Flyash
7	T. T. Shed-Narayanganj	910	2273	948	1771		Flyash
8	IWAI Haldia Jetty -Karimganj	1274	0				Flyash
9	KPD-Khulna	523	0				Steel Plates
10	Budge Budge - khulna	497	780				Flyash
11	GR Jetty-2-Khulna			775			
12	GR Jetty-2-Narayanganj			1992			
42	Shun Shing India Private Ltd.						
1	Budge Budge - Narayanganj	884	17158	10786	5616	7,824.000	Flyash
2	Budge Budge - khulna	497	59608	44108	45281	54,099.000	Flyash
3	IWAI BISN Jetty- Narayanganj	909	5341	1433	7176		Flyash
4	IWAI BISN Jetty- Khulna	522	5338	8274	6210	1,403.000	Flyash
5	Sri Ram Jetty - Khulna	518	0				Flyash
6	T.T.Shed-Khulna	523	653	23690	3113		Flyash
7	GR Jetty II- Khulna	522	5545	5174	9058	4,302.000	Flyash
8	GR Jetty II- Narayanganj	909	2588	1295	1838	1,787.000	Flyash
9	Sri Ram Jetty-Narayanganj	905	0				Flyash
10	T. T. Shed-Narayanganj	910	5777	7265	715		Flyash
43	Jindal ITF Ltd.						
1	Sagar - Farakka	540	0				Coal
44	AFS Logistics Pvt. Ltd.						
1	AWAI Haldia Jetty - Fatuha	910	0				Fertilizers
2	Fatuha - Kolkatta	805	0				Fertilizers
45	Lee & Muirhead Pvt. Ltd.						
1	Haldia - Sirsa	1471	0				ODC Cargo
46	Boxco India Pvt. Ltd.						
1	Haldia - Geonkhali	43	0				ODC Cargo
2	KPD - Jogigopha	1432	0				ODC Cargo
47	K K Shipping						
1	T.T. Shed - Narayanganj	910	21561	22809	31226	66,052.000	Flyash
2	Budge Budge - Narayanganj	884	0				Flyash
3	IWAI Haldia Jetty - Narayanganj	826	2754	4304	45248	52,752.000	Flyash
4	IWAI BISN Jetty - Narayanganj	909	16435	14619	54732	36,498.000	Flyash
5	Sri Ram Jetty-Narayanganj	905	0				Flyash
6	IWAI BISN Jetty- Khulna	522	0	4383	7931	14,460.000	Flyash
7	T.T.Shed-Khulna	523	0	10314	14031	12,858.000	Flyash
8	IWAI BISN Jetty- Mongla	509	3136				Flyash
9	T.T.Shed-Mongla	510	0				Flyash
10	IWAI Haldia Jetty - Mongla	426	0				
11	Budge Budge - Khulna	497	0				Flyash
12	IWAI Haldia Jetty - Khulna	439	0	1045	5731	27,866.000	Flyash
13	T.T.Shed-Mongla	510	1140				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)
Sl. No.	River/Stretch	Approximate Distance (Kms)	2018-19	2019-20	2020-21	2021-22	Cargo generally moved	
1	2	3	4	5	6	7	8	
14	G.R. Jetty II - Khulna	522				3,180.000	Flyash	
15	IWAI BTPS Jetty-2, Tribeni - Khulna	577				970.000	Flyash	
16	G.R. Jetty II - Narayanganj	909				18,756.000	Flyash	
48	Tetron Marchandise							
1	IWAI BISN Jetty- Khulna	522	4390	4313	808	865.000	Flyash	
2	Budge Budge - Khulna	497	10097	20891	16369	16,738.000	Flyash	
3	IWAI BISN Jetty - Narayanganj	909	0					
4	G.R. Jetty II - Narayanganj	909	2968	2490	13461		Flyash	
5	G.R. Jetty II - Khulna	522	43576	24078	3305	925.000	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	122,329.000	Fly ash	
12	IWAI Haldia Jetty - Narayanganj	826			24175		Fly ash	
13	IWAI Haldia Jetty - Khulna	439			4335	2,263.000	Fly ash	
14	IWAI BTPS Jetty-2, Tribeni - Narayanganj	964				6,606.000	Fly ash	
49	Transcoast Trading Pvt. Ltd.							
1	Budge Budge - Narayanganj	884	1080				Flyash	
2	IWAI Haldia Jetty - Narayanganj	826	10267	4134	6564		Flyash	
3	IWAI BISN Jetty - Narayanganj	909	8490	10286	5652		Flyash	
4	T.T.Shed-Narayanganj	910	15711	6900	1890		Flyash	
5	G. R. Jetty-II-Mongla	509	0				Project Cargo	
6	G. R. Jetty-II-Mongla	509	0				Steel Items	
7	KPD-Mongla	510	5165				Steel Bar, Rice, TMT Bars	
8	G. R. Jetty-II-Narayanganj	909	0				Flyash	
9	Khulna-NSD Kolkatta	521	0				Strand Jack with Accessories	
10	KPD Kolkatta-Ashuganj	1038	0	5241			Rice, TMT Bars, & Steel Sheets, Iron Pipe & Plates	
11	KPD Kolkatta-Mongla	510	0				Parallel Flange Universal Beams & ISMC Channel & Equal Angles, Steel	
12	KPD Kolkatta-Narayanganj	910	0	5918			Steel Iron Plates	
13	NSD Kolkatta-Mongla	508	1696				Rice, Steel Materials	
14	Sri Ram Jetty-Narayanganj	905	0				Flyash	
15	HDC - Narayanganj	826	0				Contaners (Denim fabrics)	
16	HDC - Mongla	426	0				HR Plate	
17	KPD Kolkatta-Khulna	523	933				Fabricated Steel Materials	
50	Hindustan Natural Glass & Industries Ltd.							
1	Rajmahal-Kolkata	443	0				Slica Sand, Cement	
51	M/s. Spring Professional Services Pvt. Ltd.							
1	Haldia-Patna	920	0				Cement	
2	Varanasi-GR Jetty 2	1171	0				Cars	
3	Gayaspur to bhagalpur	210	0				Cement	
4	Sahibganj to Manihari	8	0				Stone Chips	
52	M/s. Srimaa Import & Export Pvt. Ltd.							
1	HDC Haldia-Mongla	426	0				Steel Coils and Plates	
2	HDC Haldia-Narayanganj	826	0				Steel coils	
3	HDC Haldia-Pangaon	842	0				20 teu container (35 no)	
4	KPD Kolkata- Mawa via Narayanganj	910	0				Stone / Pebbles	
5	KPD Kolkata- Mongla	510	0				Steel Plates	
6	KPD Kolkata- Narayanganj	910	0				Pakur Crushed Stone / Pebbles	
53	Mags Impex Pvt. Ltd.							
1	T.T.Shed-Narayanganj	910	0				Flyash	

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

Table No. 2.2

								(In tonnes)
Sl. No.	River/Stretch	Approximate Distance (Kms)	2018-19	2019-20	2020-21	2021-22	Cargo generally moved	
1	2	3	4	5	6	7	8	
54	H.P Shipping Lines.							
1	T.T. Shed - Narayanganj	910	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	
55	Pioneer Shipping Lines							
1	T.T. Shed - Narayanganj	910	0				Flyash	
2	IWAI BISN Jetty- Narayanganj	909	0				Flyash	
3	Budge Budge- Narayanganj	884	0				Flyash	
4	G.R.Jetty 2- Narayanganj	909	0				Flyash	
56	Rain Maker							
1	IWAI Haldia Jetty- Narayanganj	826	34902	42924	43812	219,916.000	Flyash	
2	Budge Budge- Narayanganj	884	3077	4241	2902	13,071.000	Flyash	
3	G.R.Jetty 2- Narayanganj	909	33553	28200	21433	67,844.000	Flyash	
4	IWAI BISN Jetty- Narayanganj	909	2971	28131	27967	18,602.000	Flyash	
5	Budge Budge- Khulna	497	1729	2204			Flyash	
6	IWAI BISN Jetty- Khulna	522	875	8075	8404	857.000	Flyash	
7	T.T. Shed - Khulna	523	1392	1790	1740	860.000	Flyash	
8	HDC Fly Ash Jetty- Narayanganj	826	1154		2800	4,606.000	Flyash	
9	T.T. Shed - Narayanganj	910	21328	27907	52656	37,878.000	Flyash	
10	GR Jetty2- Khulna			3762	870	2,922.000	Fly ash	
11	IWAI Haldia Jetty- Khulna			8770	5398	1,180.000		
12	KPD Kolkata- Mongla	510				588.700	Wheat	
13	IWAI BTPS Jetty-2, Tribeni - Narayanganj	964				845.000	Flyash	
14	KPD Kolkata- Narayanganj	910				11,827.000	Rice / Sponge Iron / Wheat	
57	M/s Rajesh Kumar							
1	Samdaghat (Sahebganj) to Manihari & vice versa	14	506950				Stone Chips	
58	M/s. Rajesh Auto Merchandise Pvt. Ltd.*							
1	Kolkata-Manik Chak	436	5729				Coal	
2	Manglahat-Begusarai	233		110			ODC	
59	M/s. M. K. Shipping*							
1	Budge Budge- Narayanganj	884	1065				Fly Ash	
60	M/s. Vinayak Shipping*							
1	Budge Budge- Narayanganj	884	2540		2231	16,312.000	Fly Ash	
2	Budge Budge - Khulna	497			3322	2,005.000	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		8,425.000		
6	IWAI Haldia jetty-Narayanganj			909	1100	37,044.000		
7	IWAI Haldia Jetty - Khulna	439			2212	920.000	Fly Ash	
8	G.R. Jetty-2 - Narayanganj	909			937	6,963.000	Fly Ash	
9	GR Jetty2- Khulna	522				4,030.000	Fly Ash	
10	IWAI BTPS Jetty-2, Tribeni - Khulna	577				9,987.000	Fly Ash	
11	IWAI BTPS Jetty-2, Tribeni - Narayanganj	964				26,495.000	Fly Ash	
61	M/s Sushe Marine Services Pvt. Ltd.*							
1	Samdaghat (Sahebganj) to Manihari & vise versa	14	105000	100200			Stone chips	
62	M/s Haldia Nirman Project Pvt. Ltd.*							
1	Samdaghat (Sahebganj) to Manihari & vise versa	14	67200				Stone chips	
2	Sahebganj to Tintanga	69	200				Stone chips	
3	Sahebganj to Kahalgaon	64	200				Stone chips	

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

(In tonnes)

Sl. No.	River/Stretch	Approximate Distance (Kms)	2018-19	2019-20	2020-21	2021-22	Cargo generally moved
1	2	3	4	5	6	7	8
63	M/s. Abhi Priya Ventures						
1	Budge Budge-Khulna	497		1069			Fly Ash
2	Budge Budge-Narayanganj	884		30355	100056	13,969.000	Fly Ash
3	G.R. Jetty-2- Khulna	522		8118	2455		Fly Ash
4	G.R. Jetty-2- Narayanganj	909		17106	59439	15,349.000	Fly Ash
5	Haldia HDC Jetty- Narayanganj	826		1795	77597		Fly Ash
6	HDC Fly Ash Jetty, Haldia- Narayanganj	826		15032		5,063.000	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	29,433.000	Fly Ash
13	T.T. Shed- Mongla	510		718			Fly Ash
14	T.T. Shed- Narayanganj	910		5731	44738	32,673.000	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
64	Assetment Marine & Traders Pvt. Ltd.						
1	IWAI Haldia jetty- Narayanganj	826		1099	10974	9,470.000	Fly Ash
2	IWAI BISN Jetty - Narayanganj	909			510	3,318.000	Fly Ash
3	T.T. Shed - Narayanganj	910			924	1,882.000	Fly Ash
4	HDC, Haldia - Narayanganj	826				3,755.920	Prime Mild Steel Non Alloy Wire Rod in coil
5	G.R. Jetty-2- Narayanganj	909				1,614.000	Fly Ash
6	KPD Kolkatta-Khulna	523				1,735.800	Rice
65	M/s. Fortune Transport						
1	Budge Budge- Narayanganj	884		14004	11011	14,857.000	Fly Ash
2	G.R. Jetty-2- Khulna	522		1834	1560	601.300	Fly Ash / Steel Grider
3	G.R. Jetty-2- Narayanganj	909		6108	9539	13,371.000	Fly Ash
4	IWAI BISN Jetty-Khulna	522		825			Fly Ash
5	IWAI BISN Jetty- Narayanganj	909		10120	8392	7,573.000	Fly Ash
6	T.T. Shed-Narayanganj	910		13408	10967	1,006.000	Fly Ash
7	IWAI Haldia Jetty - Narayanganj	826			2203	5,401.000	Fly Ash
8	KPD, Kolkata - Narayanganj	910			701		Fly Ash
9	Budge Budge-Khulna	497				2,334.000	Fly Ash
10	Budge Budge-Mongla	484				790.000	Fly Ash
66	M/s. IA3 Enterprise						
1	Budge Budge-Narayanganj	884		9054	12795	51,510.000	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	51,475.000	Fly Ash
6	T.T. Shed-Narayanganj	910		4283	2460		Fly Ash
7	Kolkata - Khulna	523			1451		Stone Boulder
8	KPD Kolkatta-Khulna	523				2,050.400	Rice
9	KPD Kolkatta-Mongla	510				1,865.900	Rice / Wheat
10	KPD Kolkatta-Narayanganj	910				1,125.440	Wheat
11	Budge Budge - Khulna	497				806.000	Fly Ash
12	Patna, Bihar - Pandu, Assam	2387				186.700	Raw Rice Grade - A

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

(In tonnes)							
Sl. No.	River/Stretch	Approximate Distance (Kms)	2018-19	2019-20	2020-21	2021-22	Cargo generally moved
1	2	3	4	5	6	7	8
67	M/s. Intel International Logistics						
1	BTPS Jetty, Tribeni-Khulna	577		1800			Fly Ash
2	G.R. Jetty-2-Khulna	522		7028			Fly Ash
3	Budge Budge - Khulna	497			5495	2,686.000	Fly Ash
4	IWAI Haldia Jetty-Khulna	439			3596	1,620.000	Fly Ash
5	KPD Kolkatta-Khulna	523				4,822.000	Fly Ash
6	KPD Kolkatta-Mongla	510				17,190.000	Maize / Rice / Wheat / Indian Coal
7	KPD Kolkatta-Narayanganj	910				20,829.100	Rice / Wheat / Indian Coal / Maize
8	HDC, Haldia - Khulna	439				120,234.300	Maize / Wheat / Rice / Sponge Iron / Raw Cotton / Steam Coal
9	G.R. Jetty-2-Mongla	509				3,781.700	Wheat / Steel Hot Roll Coil
10	KPD Kolkatta-Ashuganj	1038				1,784.310	Wheat / Rice
11	Budge Budge-Narayanganj	884				896.410	Coal
12	IWAI BISN Jetty- Narayanganj	909				31,549.000	Fly Ash
13	IWAI Haldia Jetty-Narayanganj	826				11,761.000	Fly Ash
14	HDC Fly Ash Jetty, Haldia-Narayanganj	826				111,805.000	Fly Ash
15	T.T. Shed-Narayanganj	910				672.000	Fly Ash
16	HDC Haldia-Narayanganj	826				1,417.000	Fly Ash
17	NSD, Kolkata - Narayanganj	910				1,067.950	Wheat
18	T.T. Shed - Khulna	523			2037	1,037.600	Wheat
19	G.R. Jetty-2 - Narayanganj	910			2154	35312.03	Stone Chips / Fly Ash / Rice / Prime Mild Steel Alloy Hot Rolled
68	M/s. Ishan Enterprise						
1	Budge Budge-Narayanganj	884		5533	16328	17,037.000	Fly Ash
2	G.R. Jetty-2-Narayanganj	909		3279	3045	4341	Fly Ash
3	IWAI BISN Jetty-Narayanganj	909		2721	8982	635.000	Fly Ash
4	IWAI Haldia Jetty-Narayanganj	826		930	10665	24,064.000	Fly Ash
5	IWAI BISN Jetty - Khulna	522			808		Fly Ash
6	T.T. Shed-Narayanganj	910			1911	1816	Fly Ash
7	Budge Budge-Khulna	497				4,257.000	Fly Ash
8	IWAI Haldia Jetty-Khulna	439				4,944.000	Fly Ash
69	M/s. Lift & Shift India Pvt. Ltd						
1	Diamond Harbour-Semaria	789		421	1104.579		LT Shift Convertor & HT Shift Convertor, Bottom Section of CO2
2	Diamond Harbour-Semaria	789		641	389		Urea Reactor
3	Diamond Harbour-Sahebganj	554		47	239.519		LT Shift Convertor & HT Shift Convertor
4	Diamond Harbour-Sahebganj	554		275			Secondary Reformer Main Equipment & Flare KO Drum
5	Diamond Harbour-Semaria	789		275			Secondary Reformer Main Equipment & Flare KO Drum
6	Kolkata - Sahebganj	478			389.121		1. Ammonia Receiver Vessel; 2nd Vacuum seperator and Holder;
7	Kolkata - Munger	653			388.991		1. Ammonia Receiver Vessel; 2nd Vacuum seperator and Holder;
70	M/s. Maritime Logistics						
1	KP Dock, Kolkata-Mongla	510		4260			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			Steam Turbine & Auxiliaries and Steel Cargo
4	Kolkata-Narayanganj	910		1023			Stone Chips
71	M/s. Tidal Marine Services						
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
72	Daewoo-L&T						
	Gaighat-Raghopur	10		2809			TMT bars and other steel structures
73	APSEZ Ltd						
	Sahibganj MMT- Karagola	43		7950			Stone chips

Table No. 2.2

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

(In tonnes)

Sl. No.	River/Stretch	Approximate Distance (Kms)	2018-19	2019-20	2020-21	2021-22	Cargo generally moved
1	2	3	4	5	6	7	8
74	Adani Wilmar						
	Manglahat-Sahibganj	39		1300			Edible Oil
75	Suman Forwarding Agency						
	Samdaghat-Manihari	14		2160			Stone Chips
76	Channel's India						
	T.T. Shed, Kolkata - Narayanganj	910			1248		Fly Ash
77	Inflow Waterways						
1	Budge Budge - Khulna	497			16441	18,434.000	Fly Ash
2	Budge Budge - Narayanganj	884			41442	139,589.000	Fly Ash
3	G.R. Jetty-2 - Khulna	522			765	927.000	Fly Ash
4	G.R. Jetty-2 - Narayanganj	909			1540	7,841.000	Fly Ash
5	HDC Fly Ash Jetty, Haldia - Narayanganj	826			16920	63,418.000	Fly Ash
6	IWAI BISN Jetty - Khulna	522			792	1,370.000	Fly Ash
7	IWAI BISN Jetty - Narayanganj	909			1024	2,789.000	Fly Ash
8	IWAI Haldia Jetty - Narayanganj	826			8678	19,260.000	Fly Ash
9	T.T. Shed - Khulna	523			865	607.000	Fly Ash
10	T.T. Shed - Narayanganj	910			1177	11,684.000	Fly Ash
11	HDC Fly Ash Jetty, Haldia - Khulna	439				9,257.000	Fly Ash
12	KPD Kolkatta-Khulna	523				4,741.400	Non Basmati Parboiled Rice
13	KPD Kolkatta-Mongla	510				46,242.222	Non Basmati Parboiled Rice
14	KPD Kolkatta-Narayanganj	910				903.240	Wheat
15	NSD, Kolkata - Narayanganj	910				2,784.000	Wheat
78	Pacific Navigation Co.						
1	IWAI BTPS Jetty-2, Tribeni - Khulna	577			10333	28,051.000	Fly Ash
2	G.R. Jetty-2 - Khulna	522			1875		Fly Ash
3	T.T. Shed - Khulna	523			3748		Fly Ash
4	IWAI BTPS Jetty-2, Tribeni - Mongla	564				1,800.000	Fly Ash
79	Pavanputra Shipping & Logistics						
1	KPD, Kolkata - Mongla	510			1050	3,959.500	Rice
2	KPD Kolkatta-Khulna	523				9,835.200	Rice
3	Budge Budge - Narayanganj	884				4,316.000	Fly Ash
4	G.R. Jetty-2 - Narayanganj	909				1,297.000	Fly Ash
5	IWAI Haldia Jetty - Narayanganj	826				14,800.000	Fly Ash
6	NSD, Kolkata - Narayanganj	910				3,031.700	Wheat
80	Siddhivinayaka Shipping & Logistics						
1	Budge Budge - Narayanganj	884			3898	7,780.000	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
81	M/s. Everett (India) Pvt. Ltd.						
1	KPD Kolkatta-Mongla	510				18,364.600	Non Basmati Parboiled Rice
2	KPD Kolkatta-Narayanganj	910				5,970.700	Rice / Wheat / Cotton Belles
3	HDC Haldia-Mongla	426				5,857.600	Iron Non Alloy Steel / Prime Hot Rolled Steel Coil
4	HDC Haldia-Narayanganj	826				7,586.510	Hot Roll Steel Coil / Prime Hot Rolled Non Alloy Steel Plate
5	HDC Haldia-Pandu, Assam	1489				1,798.300	Prime TMT Bars
82	M/s. Jak Maritime & Logistics						
1	KPD Kolkatta-Mongla	510				12,199.230	Rice
2	KPD Kolkatta-Narayanganj	910				1,296.400	Sponge Iron
3	IWAI BTPS Jetty-2, Tribeni - Narayanganj	964				3,568.000	Fly Ash

Table No. 2.2

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

(In tonnes)							
Sl. No.	River/Stretch	Approximate Distance (Kms)	2018-19	2019-20	2020-21	2021-22	Cargo generally moved
1	2	3	4	5	6	7	8
83	M/s. Roadwings International Pvt. Ltd.						
1	G.R. Jetty-2 - Khulna	522				1,350.900	Stone Aggregates
2	KPD Kolkatta-Mongla	510				907.420	Iron & Steel Materials
3	IWAI Haldia Jetty - Narayanganj	826				1,814.000	Fly ash
4	G.R. Jetty-2 - Narayanganj	909				834.000	Fly ash
84	ABC India Limited (Bharat Heavy Electricals Ltd.)						
1	Kolaghat - Mongla	485			1552.412	436.000	Generator transformers (ODC)
85	Bollore Logistics India Limited						
1	T.T. Shed - Mongla	510			80.6	275.065	Glass Fiber Reinforced Plastic Products – GRP Chimneys and
2	T.T. Shed - Narayanganj	910			53.16		Over Dimensional Cargo
86	M/s. ODC Logistics Pvt. Ltd.						
1	N. S. Dock, Kolkata - Silghat, Assam	1748				501.000	Batch Digester and items in crate (ODC)
87	M/s Navayuga Engineering Company Ltd.						
1	IWT Terminal Gaighat, Patna to Kali Ghat, Patna	138.0				6268.50	Sand stone, Cement
88	M/s PSP Project Pvt. Ltd.						
1	MMT Varanasi to Lalita Ghat, Varanasi	297.00				2454	Sand stone
89	M/s Deugro Projects (India) Pvt. Ltd., Mumbai						
1	Kolkata to Kahalgaon	550				396.80	Generator Stator
2	Kolkata to Mirzapur (U.P.)	1254				471	Ammonia Converter Shell
90	M/s All Cargo Logistics limited						
1	Fatuha (Patna) to Haldia	900				378	Generator Stator
91	IWAI Vessels						
1	Rajmahal -Patna	368					Cement
2	Samdhaghatj-Manihari		...				Stone chips
3	Samdaghat-Patna		...				Stonechips
4	Kolaghat-Bhagalpur (Dalmia Bharti Cement)	672					Cement
5	Kahalgaon-Kolaghat (Dalmia Bharati Cement)	647	...				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
11	G.R. Jetty-2, Kolkata - Patna (Inland & Coastal Shipping Limited)	815			169		06 loaded container & 10 MTY container
92	Other vessels in Patna region		...				
11	Rajmahal to Bhagalpur	128	...				
12	Fathua to Bhagalpur	230	...				
13	Kahalgaon to Rajmahal	103	...				
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
93	M/s. IA3 Enterprise (Shipper / Exporter: Virtue International)						
1	Pakur Jetty, Putimari - Kolkata (ultimate destination Khulna, Bangladesh)	383.5			1451		Stone Boulder
94	Intel International Logistics (Shipper/Exporter: Lockgate Shipping Pvt Ltd)						
1	Pakur Jetty, Putimari - Kolkata (ultimate destination Narayanganj, Bangladesh)	383.5			2154		Stone Chips
Sub Total (D)		-	4145	0	5,119,354.87	5,395,010.88	
E	KOPT						
1	Sagar- KPD	146	1083000	1955000	1255000	924,000.000	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
2	Kolkatta-Sagar	146	0				Phosphate, Timber, Met Coke, Other/Misc. Iron Ore, Iron & Steel ,Other/Misc.

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

Table No. 2.2

(In tonnes)

Sl. No.	River/Stretch	Approximate Distance (Kms)	2018-19	2019-20	2020-21	2021-22	Cargo generally moved
1	2	3	4	5	6	7	8
3	Diamond Harbour - KPD	78	1708000		1649000	1,427,000.000	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				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	0		31000	11,000.000	Iron & Steel, Rice, Wheat
8	KPD-Diamond Harbour	78	0		7000	31,000.000	Rice & Wheat
Sub Total (E)			2791004	1955000	2942000	2,393,000.000	
F	Traffic from River Sone to NW-1	27		800000	0	0	Stone Chips
G	Unorganized Ro-Ro movements in West Bengal	0.5		2138295	1144220	2,884,224.156	Passengers and household goods
Total (NW-I) (A+B+C+D+ E+F+G)			7349330	9112397	9205965	10927788	

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

A	Geonkhali - Kolkghat	37			387		Urea Reactor (Originated from Diamond Harbour)
1	M/s. Kataria Carriers						
1	Kolaghat (NW-86) - NTPC, Farakka (NW-1)	499				180	315 MVA Transformer
2	Kolaghat - Mongla	485				436	ODC
Sub Total			0	0	387	616	

Details of Cargo Moved on National Waterways (National Waterway No.2)- BRAHMAPUTRA

A	Organised Cargo	32	5,123	6553	64274	109230.65	Transformers of power grid, Transmission equipments, MVA Auto
B	IWTD Assam		2,369,814			221525	Transformers, Crushed Stone Chips, Stone Boulders, Coal,
C	Unorganised Sector	20	496,880	386214	242821	97378	Container Cargo, Cement Bags, Rice ,Goods, Passengers,Bicycle, bikes,live stock
Sub Total (A+B+C)			2,871,817	392,767	307095	428134	
Total (NW-2)(A+B+C)			2,871,817	392,767	307095	428134	

**Details of Cargo Moved on National Waterways (National Waterway No.3) - WEST
COAST CANAL, CHAMPAKARA CANAL & UDYOG MANDAL CANAL**

Table No. 2.2

								(In tonnes)
Sl. No.	River/Stretch	Approximate Distance (Kms)	2018-19	2019-20	2020-21	2021-22	Cargo generally moved	
1	2	3	4	5	6	7	8	
A.	CHAMPAKARA CANAL							
1	KSINC							
1	Cochin Port-FACT-CD	21.5	0				Raw Sulphur, Rock Phosphate & Phosphoric Acid etc..	
2	Q10 Berth-CPT-Fact, CD	21	138913	95260	209834	109078	Sulpher,Rock Phosphate,Phosphoric Acid	
3	BPCL Irumbanam-Ship Bunkring	16	0				Furnace Oil	
4	FACT(Ammonia jetty)-FACT CD	21		85868			Sulpher,Rock Phosphate,Phosphoric Acid	
5	Q10 Berth-CPT-Fact, UD							
2	LOTS Shipping & Trading							
1	Cochin Port-FACT-CD	21.5					Raw Sulphur, Rock Phosphate & Phosphoric Acid & Stone aggregates	
2	Q10 Berth-CPT-Fact, CD	21	118067	103379	143408	233227	Phopharic 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							
3	Kerala Backwater Navigation							
1	Cochin Port -FACT CD	21.5/27					Rock Phosphate, Sulphur, LAG	
2	FACT,PD- FACT, CD	21		51200	45750	48576	LAG	
3	FACT , Ammonia jetty- FACT, CD	27		14784			LAG	
4	FACT , Ammonia jetty- FACT, PD	20					LAG	
5	FACT , Ammonia jetty- FACT, PD(via mattancherry channel)	22				12672	LAG	
6	W. Island ammonia jetty to FACT(CD)	22	57216		20547		LAG	
4	FACT Ltd.*							
1	W. Island ammonia jetty to FACT(CD)	22	17560		8356	18816	LAG	
2	FACT , Ammonia jetty- FACT, CD	27		14826			LAG	
3	FACT,PD- FACT, CD	21		50304	46111	51264	LAG	
5	Tisha Navigation Inc.							
1	Kakanadu Terminal -Sea	21		5054	3381	2310	LIQUID EFFLUENT	
6	Unique Bunkers and Marine Services							
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	5,897	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	25,397	HSFO	
7	COCHIN BUNKERS							
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	295	FUEL OIL	
4	IRUMBANAM TO Q5	18			96	345	FUEL OIL	
5	IRUMBANAM TO Q6	18			70		FUEL OIL	
6	IRUMBANAM TO Q4	21			28	327	FUEL OIL	
7	IRUMBANAM TO Q8	17			59		FUEL OIL	
8	IRUMBANAM TO Q9	17			49	637	FUEL OIL	
9	IRUMBANAM TO COCHIN SHIPYARD LTD	15			236	862	FUEL OIL	
10	IRUMBANAM TO NTB	17			78	253	FUEL OIL	
11	IRUMBANAM TO NCB	21			59		FUEL OIL	
12	IRUMBANAM TO OPL	21				2,125	FUEL OIL	
13	Irumbanam - Q1 BERTH	23				29	FUEL OIL	
14	IRUMBANAM TO Q7	19				59	FUEL OIL	
15	Irumbanam- Q 10 BERTH	18			236	139	FUEL OIL	

**Details of Cargo Moved on National Waterways (National Waterway No.3) - WEST
COAST CANAL, CHAMPAKARA CANAL & UDYOG MANDAL CANAL**

Table No. 2.2

(In tonnes)							
Sl. No.	River/Stretch	Approximate Distance (Kms)	2018-19	2019-20	2020-21	2021-22	Cargo generally moved
1	2	3	4	5	6	7	8
16	Irumbanam - BTP	21.5			3,173	122	VLSFO, Fuel Oil
17	FACT UD - FACT CD	21				2,272	Sulphuric acid
18	Q10 Berth - Fact, CD	21				100,070	Sulphuric acid, Phosphoric acid
8	BHARAT CHEMICALS						
1	FINE ARTS JETTY TO COCHIN PORT	4			2,152	1,021	VLSFO, HSFO
2	FINE ARTS JETTY TO OUTER SEA	4			3,173	11,758	VLSFO
3	FINE ARTS JETTY TO BERTH	4			448	10,340	VLSFO
9	SHINY SHIPPING						
1	FINE ARTS JETTY TO OUTER SEA	4			2,488		VLSFO
2	FINE ARTS JETTY TO Q1 BETRH	6			448	1,663	VLSFO
3	FINE ARTS JETTY TO CSL	1			23		VLSFO
4	FINE ARTS JETTY TO ICTT	4			3,747	21,092	VLSFO
5	FINE ARTS JETTY TO Q9 BETRH	1			200		VLSFO
6	FINE ARTS JETTY TO Q6 BETRH	2			196	249	VLSFO
7	FINE ARTS JETTY TO Q5 BETRH	2			217	885	VLSFO
8	FINE ARTS JETTY TO OPL	4				3,596	VLSFO
9	FINE ARTS JETTY TO COT	1				300	VLSFO
10	FINE ARTS JETTY TO Q7 BERTH	2.8				564	VLSFO
11	SCB TO Q6	4			49		VLSFO
12	SCB TO Q5	4			159		VLSFO
13	SCB TO Q1	1			240		VLSFO
14	SCB TO ICTT	3			4,326		VLSFO
15	SCB TO BTP	1			745		VLSFO
16	SCB TO OUTER SEA	3			1,153		VLSFO
17	BTP TO OUTER SEA	2			390		VLSFO
18	BTP ICTT	2			629		VLSFO
19	NCB TO BTP	1			199		VLSFO
20	NCB TO Q6	4			198		VLSFO
21	NCB TO Q5	3			283	200	VLSFO
22	NCB TO ICTT	1			3,946	5,256	VLSFO
23	NCB TO Q1	1			423	231	VLSFO
24	NCB TO Q10	4			638		VLSFO
25	NCB TO OUTER SEA	2			1,297		VLSFO
26	NCB TO CSL	1			31		VLSFO
27	NCB TO OPL	2				1,750	VLSFO
28	NCB TO COT	4				500	VLSFO
29	Q4 TO Q5	3			49		VLSFO
30	Q4 TO COT	4.3				1,298	VLSFO
31	Q4 TO ICTT	2.3				1,592	VLSFO
32	Q1 TO ICTT	3			1,499	4,850	VLSFO
33	Q1 TO OUTER SEA	3			538		VLSFO
34	Q1 TO Q6	4			100	194	VLSFO
35	Q1 TO Q5	4			55		VLSFO
36	Q1 TO BTP	1			200	1,319	VLSFO
37	Q1 TO OPL	3				3,723	VLSFO
38	Q1 TO COT	5				1,595	VLSFO
39	Q1 TO NTB	5.3				1,444	VLSFO
40	Q1 TO Q9	4.8				98	VLSFO
41	Q1 TO Q10	5				249	VLSFO
42	Q1 TO CSL	7				35	VLSFO
Sub Total (A)			331.756	420.675	536.476	690.574	

**Details of Cargo Moved on National Waterways (National Waterway No.3) - WEST
COAST CANAL, CHAMPAKARA CANAL & UDYOG MANDAL CANAL**

Table No. 2.2

								(In tonnes)
Sl. No.	River/Stretch	Approximate Distance (Kms)	2018-19	2019-20	2020-21	2021-22	Cargo generally moved	
1	2	3	4	5	6	7	8	
B.	UDYOGMANDAL CANAL							
1	LOTS Shipping & Trading*							
1	Cochin Port FACT-UD	20					Zibframe, Sulphur, Furnance oil, Zinc	
2	BPCL Irumbanam- FACT PD	11					Furnace Oil	
3	Q10 CPT-Fact, UD	20	29,403	15,993	26,770	23,929	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					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	3,590	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			77,042	872,755	COMMODITIES IN CONTAINERS, CARS BIKES, TWO WHEELERS	
5	COT - W.Island	15				46	Sludge Oil	
6	COT - Bolgatty	20				36	Sludge Oil	
7	NTB - W. Island	10				52	Sludge Oil	
8	ICTT - W. Island	10				418	Sludge Oil	
3	Kerala Back Water Navigation							
1	Fact ,PD - FACT, CD	14.5		51,200		48,576	LAG	
2	Fact ,CD - FACT, PD	14.5					Lag	
3	Ammonia jetty (w. Island) - FACT- PD	20	12,264	1,536	192	4,032	LAG	
4	Fact ,PD - FACT, CD	14.5			48,000		Lag	
5	Fact PD - Fact Ammonia Jetty	14.5				576	LAG	
4	Logos Agencies							
1	Aluva Terminal-Sea	23.5					Liquid Effluent	
5	Amrok Industrial & Investments							
1	Aluva Terminal-Sea	23.5					Furnance oil	
6	Cochin Bunkers							
1	BPCL, Irumbanam - Fact PD	27.5					Liquid effluent	
2	IOC(BPT berth) - Fact PD	17					Liquid effluent	
3	FACT UD - FACT CD	15				2,272	sulphuric acid	
7	Tisha Navigation Inc.							
1	Aluva Terminal - Sea						Liquid effluent	
2	Bolgatty Terminal - Sea	6					Liquid Effluent	
3	Kakanadu Terminal -Sea	21	3,660				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		384	LAG	
3	FACT,PD-FACT,CD			50,304	49,951	51,264	LAG	
Sub Total (B)			88309	125376	201955	1004339		

**Details of Cargo Moved on National Waterways (National Waterway No.3) - WEST
COAST CANAL, CHAMPAKARA CANAL & UDYOG MANDAL CANAL**

Table No. 2.2

Table No. Z.2								(In tonnes)
Sl. No.	River/Stretch	Approximate Distance (Kms)	2018-19	2019-20	2020-21	2021-22	Cargo generally moved	
1	2	3	4	5	6	7	8	
C.	THE WEST COASTAL CANAL							
1	KSINC Ltd*.							
1	Fine Arts Jetty- Vypeen	4	0		0		Potable water	
2	ErnaKulam terminal-Cochin port	5					POL(Bunkering to Ship)	
3	TCC - KMML	133				120		
2	Travancore Cements Ltd.							
1	Vaikom- Chitramangalam	20	0		0		Lime shell with clay & other impurities	
Sub Total (C)			0	0	0	120		
D.	NW-3 & 9 **							
1	ICTT VALLARPADAM TO KOTTAYAM PORT	75	247		0		TRIAL RUN OF NEWSPRINT	
Sub Total			247	0	0	0		
Total (NW-3) (A+B+C+D)			420312	546051	738431	1695033		
Total Cargo Moved on National Waterways (NW-1+NW-2+NW-3+NW86)								
GRAND TOTAL (NW-1+NW-2+NW-3+NW-86))			10641458	10051215	10251878	13051570		

Source : Inland Waterways Authority of India

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 2022)

Sl. No.	State	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	15	
1	Andhra Pradesh	2020	-	-	-	-	-	-	-	-	-	-	-	-	
		2021	-	-	-	-	-	-	-	-	-	-	-	-	
		2022	-	-	-	-	-	-	-	-	-	-	-	-	
2	Assam	2020	0	25	94	6	125	13	0	65	0	0	78	203	
		2021	0	0	159	6	165	15	-	-	76	-	91	256	
		2022	0	66	2	4	72	9	0	0	0	0	9	81	
3	Bihar	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	
		2022	2	0	2	12	16	0	0	0	0	0	0	16	
4	Goa	2020	82	146	13	3	244	-	-	-	-	-	0	244	
		2021	83	146	12	23	264	-	-	-	-	1	1	265	
		2022	90	130	7	6	233	0	0	0	0	0	0	233	
5	Karnataka	2020	-	32	5	-	37	-	-	-	-	-	0	37	
		2021	-	32	5	-	37	-	-	-	-	-	0	37	
		2022	-	-	-	-	-	-	-	-	-	-	-	-	
6	Kerala	2020	3	60	2	0	65	32	0	0	5086	407	5525	5590	
		2021	39	59	2	0	100	40	-	-	4546	332	4918	5018	
		2022	41	4	6	0	51	32	0	0	4802	363	5197	5248	
7	Maharashtra	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	
		2022	172	1095	17	73	1357	70	3	6	0	4	83	1440	
8	Odisha	2020	-	-	73	-	73	-	-	-	-	-	0	73	
		2021	-	-	73	-	73	-	-	-	-	-	0	73	
		2022	-	-	66	-	66	-	-	-	-	-	0	66	
9	West Bengal	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	
		2022	97	325	7	45	474	15	5	5	1830	40	1895	2369	
10	Tamil Nadu	2020	-	-	-	-	0	-	-	-	2	-	2	2	
		2021	-	-	-	-	-	-	-	-	-	-	-	-	
		2022	-	-	-	-	-	-	-	-	-	-	-	-	
11	MIZORAM	2020	-	-	-	-	0	-	-	-	-	-	0	0	
		2021	-	-	-	-	-	-	-	-	-	-	-	-	
		2022	-	-	-	-	-	-	-	-	-	-	-	-	
12	Nagaland	2020	-	-	-	-	-	-	-	-	-	-	-	-	
		2021	-	-	-	-	-	-	-	-	-	-	-	-	
		2022	-	-	-	-	-	-	-	-	-	-	-	-	
13	Gujarat	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	
		2022	171	36	7	139	353	39	0	2	3	24	68	421	
14	Jharkhand	2021	-	-	-	-	0	2	-	-	-	-	2	2	
		2022	-	-	-	-	-	NA	-	-	-	-	-	-	
Grand Total		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	
		2022	573	1656	114	279	2622	165	8	13	6635	431	7252	9874	

Source : State Governments

@@ Others includes country boats

Table No. 3.2

Number of Passengers Carried By Inland Water Vessels
(Year Ending 31st March 2022)

Sl. No.	State	Year	Powered Vessels Employed for passengers (Nos.)	Total No. of passengers carried (000)
1	2	3	4	5
1	Assam	2018	98	9044.43
		2019	98	8514.22
		2020	98	6585.91
		2021	76	1979.20
		2022	66	4385.95
2	Bihar	2018	83	578.00
		2019	83	578.00
		2020	83	578.00
		2021	N.A	N.A
		2022	0	0.00
3	Karnataka	2018	66	1720.86
		2019	66	2158.00
		2020	37	1617.00
		2021	37	916.25
		2022	46	928.02
4	Kerala	2018	87	22825.66
		2019	66	19739.08
		2020	74	20535.31
		2021	63	8874.78
		2022	104	19224.53
5	Maharashtra	2018	-	19095.00
		2019	-	19291.70
		2020	-	15922.30
		2021	-	9106.53
		2022	-	13667.60
6	Odisha	2018	9	132.00
		2019	11	128.62
		2020	11	131.22
		2021	11	131.22
		2022	18	118.41
7	West Bengal	2018	286	82897.00
		2019	321	106492.00
		2020	335	116880.00
		2021	378	126980.00
		2022	332	136369.00
8	Jharkhand	2021	**	**
		2022	N.A.	

Source : State Governments
: Not Available-

** 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 2022)**

Private Companies/Undertakings By Type (As on 31st March 2022)						
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					
	2020	2	-	2.67	-	-
	2021	1	-	1.32	-	N.A.
	2022	1	-	1.32	-	N.A.
2	V.M.Salgaocar Sales International					
	2020	2	-	2.81	-	-
	2021	2	-	2.81	-	N.A.
	2022	2	-	2.81	-	N.A.
3	Sesa Resource Ltd.					
	2020	2	-	2.14	-	-
	2021	2	-	2.14	NA	N.A.
	2022	2	-	2.14	NA	N.A.
4	Vedanta Ltd.					
	2020	30	1	41	88	-
	2021	30	1	41	88	NA
	2022	31	1	43	88	NA
5	Jindal ITF Ltd.					
	2020	28	-	625.27	-	-
	2021	28	-	589.29	-	-
	2022	28	-	-	-	-
6	Goa Ore Carriers					
	2020	2	-	5200	-	-
	2021	-	-	-	-	-
	2022	2	-	2.89	-	Nil
7	Maharshi Shipping Co.					
	2020	6	-	284.56	-	-
	2021	6	-	274.86	-	-
	2022	6	-	-	-	-
8	Indo-Swiss Trading Co. Pvt. Ltd.					
	2020	-	2	0.12	270	-
	2021	-	2	0.12	270	-
	2022	-	2	0.12	270	-
9	Vivada Inland Waterways Ltd. Kolkata					
	2020	10	6	895.262	19185	-
	2021	8	6	825.220	15985	-
	2022	10	6	-	-	-
10	West Bengal Surface Transport Corporation Ltd					
	2020	8	78	-	61068650	-
	2021	8	78	-	55579028	-
	2022	8	78	-	-	-

Table No. 4.1

**IWT Vessels With Valid Certificates of Survey-Owned By Responding
Private Companies/Undertakings By Type (As on 31st March 2022)**

Private Companies Undertakings By Type (As on 31st March 2022)						
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
11	Hooghly Nadi Jalapath Paribahan Samabaya Samity, Kolkata					
	2020	-	40	-	50550129	-
	2021	-	40	-	40780228	-
	2022	-	40	-	-	-
12	West Bengal Tourism Development Corporation limited, Kolkata					
	2020	-	8	-	35940	-
	2021	-	8	-	25750	-
	2022	-	8	-	-	-
13	Eastern Navigation (P) Ltd., Kolkata					
	2020	14	-	3.95	-	19
	2021	10	2	831.46	6878	
	2022	36	2	-	-	
14	Ghatal Steam Navigation (P) Ltd., Kolkata					
	2020	-	4	-	475508	-
	2021	-	4	-	335710	-
	2022	-	4	-	-	-
15	Diamond Harbour Municipality, Kolkata					
	2020	-	3	-	239729	-
	2021	-	3	-	179369	-
	2022	-	3	-	-	-
16	Bengal Heritage River					
	2020	-	8	-	37940	-
	2021	-	8	-	18059	-
	2022	-	8	-	-	-
17	Chandan Nagar Municipality, Kolkata					
	2020	-	3	-	51608	-
	2021	-	3	-	35702	-
	2022	-	3	-	-	-
18	Sohom Shipping Pvt.Ltd.					
	2020	6	-	224.21	-	-
	2021	Nil	Nil	Nil	Nil	Nil
	2022	6	-	-	-	-
19	Assam Bengal Navigation Co. Pvt. Ltd.					
	2020	-	4	-	122	-
	2021	-	4	-	122	-
	2022	-	4	-	122	NA
20	M/s Pennon Shipping Pvt. Ltd.					
	2020	5	-	9.094	-	-
	2021	6	-	10.947	Nil	Nil
	2022	1	-	1.80	Nil	Nil

Table No. 4.1

**IWT Vessels With Valid Certificates of Survey-Owned By Responding
Private Companies/Undertakings By Type (As on 31st March 2022)**

Private Companies Undertakings By Type (As on 31st March 2022)						
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
21	Ganges Water Transport Co. Pvt.					
	2020	2	-	5.40	-	-
	2021	2	-	7.30	-	-
	2022	2	-	5.30	-	NA
22	Krishna Shipping & Logistics					
	2020	7	-	3.70	-	-
	2021	5	-	2.08	-	5
	2022	4	-	1.99	-	5
23	JSW Salav Steel Ltd.					
	2020	NA	NA	NA	NA	NA
	2021	NA	NA	NA	NA	NA
	2022	NA	NA	NA	NA	NA
24	Finolex Industries Ltd.					
	2020	NA	NA	NA	NA	NA
	2021	1	-	0.01		
	2022	2	-	0.03	18	NA
25	Minescape Minerals Pvt. Ltd.					
	2020	-	-	-	-	-
	2021	-	-	-	-	-
	2022	4	-	8.65	-	-
26	Jsw Jaigarh Port Ltd.					
	2020	5	-	21.06	-	-
	2021	4	-	21.06	Nil	Nil
	2022	4	-	21.06	Nil	Nil
27	FACT (Coachin Division)					
	2020	1	-	0.417	-	-
	2021	1	-	0.417	-	-
	2022	1	-	0.417	-	-
28	Infrastructure Logistics Pvt. Ltd.					
	2020	2	-	104.51	-	-
	2021	3	-	106.68	-	-
	2022	6	-	329.73	-	-
29	Kerala Shipping & Inland Navigation Co. Ltd.					
	2020	6	-	1.76	-	-
	2021	6	-	1.76	-	-
	2022	11	3	3.62	584	-

Table No. 4.1

**IWT Vessels With Valid Certificates of Survey-Owned By Responding
Private Companies/Undertakings By Type (As on 31st March 2022)**

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
30	M/sTimblo Pvt. Ltd.					
	2020	1	1	0.149+(60 Kilo ltrs.)	14	-
	2021	1	1	0.149+(60 KL HFHSD)	8	Nil
	2022	2	-	0..250+(60 KL HFHSD)	14	Nil
31	Backwater Navigation Co.					
	2020	1	-	0.19	-	-
	2021	1	-	0.19	-	-
	2022	1	-	0.19	-	NA
32	Adventure Resorts & Cruises Pvt. Ltd.					
	2020	-	3	1.25	68	-
	2021	-	2	1.21	64	-
	2022	Passenger	2	NA	64	NA
33	K.K. Shipping					
	2020	1	-	0.27	-	-
	2021	1	-	0.47	-	Nil
	2022	1	-	0.27	-	Nil
34	Haldia Nirman Projects Pvt. Ltd.					
	2020	3	-	1.998	-	-
	2021	Nil	Nil	Nil	Nil	Nil
	2022	Nil	Nil	Nil	Nil	Nil
35	Angre Port Pvt. Ltd.					
	2020	Nil	Nil	Nil	Nil	Nil
	2021	Nil	Nil	Nil	Nil	Nil
	2022	Nil	Nil	Nil	Nil	Nil
36	Heritage River Journeys Pvt. Ltd.					
	2020	-	3	-	168	-
	2021	-	2	-	112	-
	2022	-	2	-	112	-
37	Spring Professional Services Pvt. Ltd.					
	2020	-	-	-	-	-
	2021	-	-	-	-	-
	2022	-	1	-	70	-
38	JSW Dharamtar Port Pvt. Ltd.					
	2020	-	-	-	-	-
	2021	-	-	-	-	-
	2022	Nil	Nil	Nil	Nil	Nil

Table No. 4.1

**IWT Vessels With Valid Certificates of Survey-Owned By Responding
Private Companies/Undertakings By Type (As on 31st March 2022)**

Private Companies/Undertakings By Type (As on 31st March 2022)						
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
39	PNP Maritime Services Pvt. Ltd.					
	2020	-	-	-	-	-
	2021	3	-	4	NA	NA
	2022	12	-	14	NA	NA
40	Kottayam Port and Container Terminal Pvt. Ltd.					
	2020	1	-	0.2	-	-
	2021	1	-	0.2	-	Nil
	2022	1	-	0.2	-	Nil
41	Inland Coastal Shipping Ltd.					
	2021	2	-	600	-	NA
	2022	2	-	0.60	-	NA
42	TP RoyChowdhury & Co. Pvt. Ltd.					
	2022	5	-	9.15	-	Nil
43	Lots Shipping Ltd.*					
	2020	2	-	770000.00	-	1
	2021	-	-	-	-	-
	2022	-	-	-	-	-
44	Nirakar Engineering Services Ltd. *					
	2020	2	-	4400	-	-
	2021	-	-	-	-	-
	2022	-	-	-	-	-
45	Brahmaputra Cruises*					
	2020	-	1	-	180	-
	2021	-	1	NA	NA	-
	2022	-	-	-	-	-
46	M/S Neli *					
	2020	1	-	0.37	-	-
	2021	-	-	-	-	-
	2022	-	-	-	-	-
47	Mags Impex (Shipping) Pvt. Ltd.*					
	2020	-	-	-	-	-
	2021	-	-	-	-	-
	2022	-	-	-	-	-
48	Indo Energy International Ltd.*					
	2020	NA	NA	NA	NA	NA
	2021	-	-	-	-	-
	2022	-	-	-	-	-

Table No. 4.1

**IWT Vessels With Valid Certificates of Survey-Owned By Responding
Private Companies/Undertakings By Type (As on 31st March 2022)**

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
49	Pioneer Shipping Lines*					
	2020	-	-	-	-	-
	2021	-	-	-	-	-
	2022	-	-	-	-	-
50	M/S AIE IMPEX*					
	2020	Nil	Nil	Nil	Nil	Nil
	2021	-	-	-	-	-
	2022	-	-	-	-	-
51	Cochin Bunkers Pvt. Ltd.					
	2022	3	-	0.98	-	-
52	M/s Shiny Shipping & Logistics Pvt Ltd					
	2022	2	-	1.37	-	-
53	M/s Nadi Bangla Shipping Corporation					
	2022	Nil	Nil	Nil	Nil	Nil
54	M/s Westbay Logistic					
	2022	Nil	Nil	Nil	Nil	Nil
55	Heritage River Cruisess Pvt. Ltd.					
	2022	-	1	-	56	-

Source: Pvt. IWT Companies/Major Operators

Note : This table covers only those IWT Co./Operators from whom the data/reply is received by T

NA- Not Applicable

* No information received for the year 2021-22

Table No. 4.2

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

(Year Ending 31st March 2022)

Sl.No.	Company/Undertaking and Year	Type of Vessels	No. of Powered Vessels Employed	Distance Travelled (Kms)	Freight Collected (Rs.in Lakh)	Cargo Carried		Passenger Carried	
						Cargo (in Tonnes)	TKms (in millions)	Passenger (in No.)	PKms
1	2	3	4	5	6	7	8	9	10
1	S. V. Salgaocar, Goa								
	2020	Cargo	2	2296	55.34	85.098	0.20	-	-
	2021	Cargo	1	5328	153.30	156884	835.88	NA	-
	2022	Cargo	1	2854	107.72	122559.72	349.73	NA	-
2	V.M.Salgaocar Sales International								
	2020	Cargo	2	3168	65.59	92837	294.11	-	-
	2021	Cargo	2	6890	206.49	219483	1512.24	NA	-
	2022	Cargo	2	2645	98.44	116072	307.00	NA	-
3	Sesa Resources Ltd.								
	2020	Cargo	2	10526	(c)	251749.16	2649.91	-	-
	2021	Cargo	2	7754	NA	16392838.55	127110.07	NA	-
	2022	Cargo	2	9672	(c)	278573.72	2694.37	NA	-
4	Vedanta Ltd.								
	2020	Cargo/Passenger	17	51035	(c)	1789296.32	91316.74	-	-
	2021	Cargo/Passenger	17	77997	NA	3150383.38	245720.45	NA	-
	2022	Cargo/Passenger	21	61135	(c)	2303667.28	140834.70	NA	-
5	Jindal ITF Ltd.								
	2020	Cargo	28	-	586.73	625270	-	-	-
	2021	Cargo	28	-	525.18	589290	-	-	-
	2022	Cargo	28	-	561.81	627850	-	-	-
6	Goa Ore Carriers								
	2020	Cargo	2	36864	347.62	489600	18048.61	-	-
	2021	-	-	-	-	-	-	-	-
	2022	Cargo	2	6075	299.99	344821	2094.79	Nil	-
7	Maharshi Shipping Co.								
	2020	Cargo	6	-	186.63	284560	-	-	-
	2021	Cargo	6	-	171.73	274860	-	-	-
	2022	Cargo	6	-	175.52	281610	-	-	-
8	Indo-Swiss Trading Co.Pvt. Ltd.								
	2020	Pass.	2	16472	-	-	-	-	-
	2021	Pass.	2	14670	-	-	-	-	-
	2022	Pass.	2	15472	Nil	-	-	-	-
9	VIVADA Inland Waterways Ltd., Kolkata								
	2020	Cargo/Tug/Pass/LCT	16	-	1008.39	895262	-	19185	-
	2021	Cargo/Tug/Pass/LCT	16	-	982.39	82522	-	15985	-
	2022	Cargo/Tug/Pass/LCT	16	-	995.42	91035	-	17215	-
10	W. Bengal Surface Transport Corporation Ltd., Kolkata								
	2020	Pass./LCT	86	-	882.56	46581(b)	-	61068650	-
	2021	Pass./LCT	86	-	838.78	37712(b)	-	55579028	-
	2022	Pass./LCT	86	-	861.21	38213(b)	-	58178258	-

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

Table No. 4.2

(Year Ending 31st March 2022)

Sl.No.	Company/Undertaking and Year	Type of Vessels	No. of Powered Vessels Employed	Distance Travelled (Kms)	Freight Collected (Rs.in Lakh)	Cargo Carried		Passenger Carried	
						Cargo (in Tonnes)	TKms (in millions)	Passenger (in No.)	PKms
1	2	3	4	5	6	7	8	9	10
11	Hooghly Nadi Jalapath Paribahan Samabaya Samity, Kolkata								
	2020	Pass.	40	-	583.72	-	-	50550129	-
	2021	Pass.	40	-	518.18	-	-	40780228	-
	2022	Pass.	40	-	525.12	-	-	41621238	-
12	West Bengal Tourism Development Corpn. Ltd., Kolkata								
	2020	Pass.	8	-	106.27	-	-	35940	-
	2021	Pass.	8	-	95.18	-	-	25750	-
	2022	Pass.	8	-	98.65	-	-	27635	-
13	Eastern Navigation (P) Ltd., W. Bengal, Kolkata								
	2020	Cargo/Tug/Pass.	14	1400	50.00	600	0.84	-	-
	2021	Cargo/Tug/Pass.	12		505.26	831.46			-
	2022	Cargo/Tug/Pass.	38	-	514.31	854.42	-	7115	-
14	Ghatal steam Navigation (P) Ltd. Kolkata								
	2020	Pass.	4	-	288.12	-	-	475508	-
	2021	Pass.	4	-	253.16	-	-	335710	-
	2022	Pass.	4	-	258.61	-	-	342621	-
15	Diamond Harbour Municipality, Kolkata								
	2020	Pass.	3	-	167.19	-	-	239729	-
	2021	Pass.	3	-	126.12	-	-	179369	-
	2022	Pass.	3	-	131.42	-	-	191467	-
16	Bengal Heritage River								
	2020	Tugs	8	-	37.46	-	-	37940	-
	2021	Tugs	8	-	15.16	-	-	18059	-
	2022	Tugs	8	-	19.42	-	-	22165	-
17	Chandan Nagar Municipality, Kolkata								
	2020	Pass.	3	-	9.45	-	-	51608	-
	2021	Pass.	3	-	4.29	-	-	35702	-
	2022	Pass.	3	-	4.95	-	-	38145	-
18	Soham Shipping Pvt.Ltd.								
	2020	Cargo	6	-	125.72	224210	-	-	-
	2021	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
	2022	Cargo	6	-	112.5	214850	-	-	-
19	Assam Bengal Navigation Co. Pvt. Ltd.								
	2020	-	9	2692	-	-	-	995	2.68
	2021	-	10	2717	-	-	-	661	1.80
	2022	Pass.	8	2577	-	-	-	280	0.72

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

Table No. 4.2

(Year Ending 31st March 2022)

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
20	M/s Pennon Shipping Pvt. Ltd.								
	2020	Cargo	5	16466	-	223404	3679	-	-
	2021	Cargo	6	27095	-	349340	9465	-	-
	2022	Cargo	1	2072	-	33469	69	Nil	-
21	Ganges Water Transport Co. Pvt. Ltd.								
	2020	Cargo	2	4486	258.12	88254	395.91	-	-
	2021	Cargo	2	33132	287.47	89461	2964.02	-	-
	2022	Cargo	2		412.40	103284		NA	-
22	Krishna Shipping & Logistics								
	2020	NA	NA	NA	NA	NA	NA	NA	NA
	2021	-	-	-	-	-	-	-	-
	2022	-	-	-	-	-	-	-	-
23	JSW Salav Steel Ltd.								
	2020	Cargo	9	2214	-	555559.9	1230.01	-	-
	2021	Cargo	8	2304	Nil	274248	631.87	NA	NA
	2022	Cargo	4	1071	Nil	238000	254.90	NA	NA
24	Finolex Industries Ltd.								
	2020	NA	NA	NA	NA	NA	NA	NA	NA
	2021	-	Nil	NA	NA	NA	NA	NA	NA
	2022	NA	NA	NA	NA	NA	NA	NA	NA
25	Minescape Mineraaals Pvt. Ltd.								
	2020	-	-	-	-	-	-	-	-
	2021	-	-	-	-	-	-	-	-
	2022	-	-	-	-	-	-	-	-
26	Jsw Jaigarh Port Ltd.								
	2020	Cargo	4	51728	-	1533000	79299.02	-	-
	2021	Cargo	4	89304	-	2668326	238292.19	-	-
	2022	Cargo	4	76372	-	2297051	175430.38	-	-
27	FACT (Cochin Division)								
	2020		1	22672	+	70314	1594.16	-	-
	2021		1	20467	+	58307.28	1193.38	-	-
	2022	Cargo	1	22876	+	70464	1611.93	-	-
28	Infrastructure Logistics Pvt. Ltd.								
	2020	Cargo	2	4700	(d)	104510	491.20	-	-
	2021	Cargo	5	1704	(d)	215680	367.52	-	-
	2022	Cargo	6	4862	(d)	329725	1603.12	-	-

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

Table No. 4.2

(Year Ending 31st March 2022)

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
29	Kerala Shipping & Inland Navigation Co. Ltd.								
	2020	Cargo	6	22982	409.98	173801	3994.29	-	-
	2021	Cargo	6	28314	497.75	257108	7279.76	-	-
	2022	Cargo/Passenger	11	17948	371.94	158185.6	2839.12	1001445	17973.93
30	Timblo Pvt. Ltd.								
	2020	Cargo/Passenger	2	956	3.83	38550+34KL	144.49	-	-
	2021	Cargo/Passenger	3	67	2.30	147 KL	10.08	-	-
	2022	Passenger	1	222	1.29	110	33.60	-	-
31	Backwater Navigation Co.								
	2020	Cargo	1	25560	257.00	69056	1765.07	-	-
	2021	Cargo	1	24424	257.00	66048	1613.16	-	-
	2022	Cargo	1	24424	287.00	66048	1613.16	-	-
32	Adventure Resorts & Cruises Pvt. Ltd.								
	2020	Passenger	3	473	545	-	-	1888	0.89
	2021	Passenger	2	473	0	0	-	0	0
	2022	Passenger	2	NA	NA	NA	NA	NA	NA
33	K.K. Shipping								
	2020	Cargo	1	1560	15.47 e	1520	2.37	-	-
	2021	Cargo	1	1560	13.50 e	2462	3.84	-	-
	2022	Cargo	1	1560	13.50 e	704	1.10	-	-
34	Haldia Nirman Projects Pvt. Ltd.								
	2020	Cargo	3	-	-	-	-	-	-
	2021	NA	NA	NA	NA	NA	NA	NA	NA
	2022	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
35	Angre Port Pvt. Ltd.	-							
	2020	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
	2021	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
	2022	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
36	Heritage River Journeys Pvt. Ltd.								
	2020	Passenger	3	1253	-	-	-	1270	2
	2021	-	-	-	-	-	-	-	-
	2022	-	-	-	-	-	-	-	-
37	Spring Professional Services Pvt. Ltd.								
	2020	-	-	-	-	-	-	-	-
	2021	-	-	-	-	-	-	-	-
	2022	Passenger	1	200	0.51	-	-	180	0.04
38	JSW Dharamtar Port Pvt. Ltd.								
	2020	-	-	-	-	-	-	-	-
	2021	-	50	596454	Nil	12902	7695	-	-
	2022	-	60	707564	-	17207	12175	-	-

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

Table No. 4.2

(Year Ending 31st March 2022)

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	PNP Maritime Services Pvt. Ltd.								
	2020	-	-	-	-	-	-	-	-
	2021	-	-	-	-	3272050	-	-	-
	2022	-	-	-	-	3288000	-	NA	-
40	Kottayam Port & Container Terminal Pvt. Ltd.								
	2020	All	1	-	-	-	-	-	-
	2021	All	1	100	Nil	Nil	-	-	-
	2022	All	1	100	Nil	Nil	-	NA	-
41	Inland Coastal Shipping Ltd.								
	2021	Cargo	2	3260	1.98	420	1.37	-	-
	2022	Cargo	2	5705	2.51	650	3.71	-	-
42	TP RoyChowdhury & Co. Pvt. Ltd.								
	2022	Cargo	5	18237	-	298288	5439.88	Nil	-
43	Lots Shipping Ltd. *								
	2020	Cargo	2	9380	267	95360	894.48	-	-
	2021	-	-	-	-	-	-	-	-
	2022	-	-	-	-	-	-	-	-
44	Nirakar Engineering Services Ltd.*								
	2020	-	2	8334	113.40	162000	1350	-	-
	2021	-	-	-	-	-	-	-	-
	2022	-	-	-	-	-	-	-	-
45	Brahmaputra Cruises Pvt. Ltd.*								
	2020	Pass.	1	6	227.50	-	-	65000	0.39
	2021	-	-	-	-	-	-	-	-
	2022	-	-	-	-	-	-	-	-
46	M/S Neli *								
	2020	Cargo	1	6240	70.53 e	6932	43	-	-
	2021	-	-	-	-	-	-	-	-
	2022	-	-	-	-	-	-	-	-
47	Mags Impex (Shipping) Pvt. Ltd.*								
	2020	-	-	-	-	-	-	-	-
	2021	-	-	-	-	-	-	-	-
	2022	-	-	-	-	-	-	-	-
48	Indo Energy International Ltd.*								
	2020	NA	NA	NA	NA	NA	NA	NA	NA
	2021	-	-	-	-	-	-	-	-
	2022	-	-	-	-	-	-	-	-

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

Table No. 4.2

(Year Ending 31st March 2022)

Sl.No.	Company/Undertaking and Year	Type of Vessels	No. of Powered Vessels Employed	Distance Travelled (Kms)	Freight Collected (Rs.in Lakh)	Cargo Carried		Passenger Carried	
						Cargo (in Tonnes)	TKms (in millions)	Passenger (in No.)	PKms
1	2	3	4	5	6	7	8	9	10
49	Pioneer Shipping Lines*								
	2020	-	-	-	-	-	-	-	-
	2021	-	-	-	-	-	-	-	-
	2022	-	-	-	-	-	-	-	-
50	M/S AIE IMPEX*								
	2020	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
	2021	-	-	-	-	-	-	-	-
	2022	-	-	-	-	-	-	-	-
51	Cochin Bunkers Pvt. Ltd.								
	2022	Cargo	3	-	-	-	-	-	-
52	M/s Shiny Shipping & Logistics Pvt Ltd								
	2022	-	-	-	-	-	-	-	-
53	M/s Nadi Bangla Shipping Corporation								
	2022	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
54	M/s Westbay Logistic								
	2022	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
55	Heritage River Cruisess Pvt. Ltd.								
	2022	-	-	-	-	-	-	-	-

Source: Pvt IWT Companies/Major Operators

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

(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 (13.50 USD per MT)

+ : Barge is used for transportation between production division

* No information received for the year 2021-22

SECTION – 5

PLAN-WISE OUTLAY & EXPENDITURE FOR IWT SECTOR

Table No. 5.1**YEAR WISE FINANCIAL PERFORMANCE FROM F.Y. 2018-19 TO F.Y. 2020-21**

(Rs. In Crore)

Sl. No.	Budget head/ Waterways	Financial Year			Financial Year			Financial Year			Financial Year			Financial Year		
		(2018-19)			(2019-20)			(2020-21)			(2021-22)			(2022-23)		
		B.E	R.E	Exp.	B.E	R.E	Exp.	B.E	R.E	Exp.	B.E	R.E	Exp.(P.)	B.E	R.E	Exp.
I	Grants to IWAI															
1	National Waterway 1	100.57	110.57	228.16	96.66	90.66	155.10	109	62	60.19	75	85.5	85.71			
2	National Waterway 3	25	15.00	15.12	51.43	15.21	26.07	31	21.00	21.52	10	10.2	10.27			
3	National Waterway 4									3.62	3.5	3.1	3.08			
4	National Waterway 5									2.13	3	2.6	2.58			
5	Others **activities etc.	52.18	52.18	55.30	156.47	18.23	31.50	60		9.82	10	12	11.84			
6	Others NWs									3.4	0.5	0.6	0.59			
	Sub Total - I (Grants to IWAI)	177.75	177.75	298.58	304.56	124.10	212.67	200.00	120.00	100.68	102.00	114.00	114.07	106.00	0.00	0.00
1	Jal Marg Vikas Project (JMVP)	25	420.54	430.93	230	230.00	461.83	300	261.50	227.83	295	218	218	285.01		
	Sub Total - II (Grants to IWAI including JMVP)	202.75	598.29	729.51	534.56	354.10	674.50	500.00	381.50	328.51	397.00	332.00	332.07	391.01	0.00	0.00
II	North Eastern Area															
1	National Waterway 2	120.00	105.00	106.54	80.00	52.50	58.43	40.00	32.00	38.79	89.1	84.8	84.8	99.8		
2	Central Plan scheme for NER	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00					
3	Proposed NW-16 (Barak) ***	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00					
4	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					
	Sub total - II (NER)	120.00	105.00	106.54	80.00	52.50	58.43	40.00	32.00	38.79	89.10	84.80	84.80	99.80	0.00	0.00
III	Interest Subsidy to Bank, Loan to IWT Enterprenuer for Inland Vessel Subsidy Scheme	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00			0.00		
IV	Tech Studies & R&D	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00			0.00		
V	Central Plan Scheme/ CSS	0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00			0.00		
	Grand Total	322.75	703.29	836.05*	614.56	406.60	732.93*	540.00	413.50	367.30	486.10	416.80	416.87	490.81	0.00	0.00

Source : Inland Waterways Authority of India (IWAI)

Note: Expenditure shown on actual basis

* 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 respective

** The expenditure on Jal Marg Vikas Project (JMVP) included in Grants to IWAI (I-5) upto 2016-17 since separte Budget Head was created in F. Y. 2017-18

*** Budget and expenditure on account of (III.3) for proposed NW-16 (Barak) is incuded in NW-2(III.1). @ Budget provided to IWAI under capital Head - Investment during 2021-22(RE) and 2022-23(B P.- Provisional/ unaudited)

SECTION – 6

INLAND WATERWAYS TRANSPORT ACCIDENTS

Table No. 6.1

No. of Accidents, Persons Injured And Died by Drowning (Boat Capsize) in States During 2021.

Sl. No.	State/UT	No. of Cases	Drowning (Boat Capsize)							
			No. of Persons Injured				No. of Persons Died			
			Male	Female	Transgenders	Total	Male	Female	Transgenders	Total
1	2	3	4	5	6	7	8	9	10	11
STATES										
1	Andhra Pradesh	18	0	0	0	0	22	1	0	23
2	Arunachal Pradesh	0	0	0	0	0	0	0	0	0
3	Assam	11	0	0	0	0	0	1	0	1
4	Bihar	74	26	5	0	31	25	22	0	47
5	Chhattisgarh	0	0	0	0	0	0	0	0	0
6	Goa	0	0	0	0	0	0	0	0	0
7	Gujarat	3	0	0	0	0	5	2	0	7
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	11	0	0	0	0	5	2	0	7
11	Karnataka	6	0	0	0	0	6	2	0	8
12	Kerala	15	0	0	0	0	18	1	0	19
13	Madhya Pradesh	7	0	0	0	0	6	2	0	8
14	Maharashtra	4	0	0	0	0	7	5	0	12
15	Manipur	0	0	0	0	0	0	0	0	0
16	Meghalaya	0	0	0	0	0	0	0	0	0
17	Mizoram	0	0	0	0	0	0	0	0	0
18	Nagaland	0	0	0	0	0	0	0	0	0
19	Odisha	79	0	0	0	0	70	9	0	79
20	Punjab	0	0	0	0	0	0	0	0	0
21	Rajasthan	0	0	0	0	0	0	0	0	0
22	Sikkim	0	0	0	0	0	0	0	0	0
23	Tamil Nadu	7	0	0	0	0	7	0	0	7
24	Telangana	0	0	0	0	0	0	0	0	0
25	Tripura	0	0	0	0	0	0	0	0	0
26	Uttar Pradesh	28	3	1	0	4	21	5	0	26
27	Uttarakhand	1	1	0	0	1	0	0	0	0
28	West Bengal	5	0	0	0	0	14	0	0	14
Total(States)		269	30	6	0	36	206	52	0	258
UNION TERRITORIES										
29	Andaman & Nicobar Island	0	0	0	0	0	1	0	0	1
30	Chandigarh	0	0	0	0	0	0	0	0	0
31	Dadra and Nagar Haveli and Daman	0	0	0	0	0	0	0	0	0
32	Delhi	0	0	0	0	0	0	0	0	0
33	Jammu and Kashmir	0	0	0	0	0	0	0	0	0
34	Ladakh	0	0	0	0	0	0	0	0	0
35	Lakshadweep	1	0	0	0	0	0	0	0	0
36	Puducherry	0	0	0	0	0	0	0	0	0
Total (UTs)		1	0	0	0	0	1	0	0	1
Total States/UTs		270	30	6	0	36	207	52	0	259

Source : Accidental Deaths & Suicides in India - 2021

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

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

ANNEXURES

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

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

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

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

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

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

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

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

INFRASTRUCTURE FACILITIES ON NATIONAL WATERWAYS 1, 2 & 3

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

1. Varanasi MMT

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

2. Assi Ghat, Varanasi

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

3. Rajghat, Varanasi

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

4. Gaighat, Patna

- a. Type of Jetty: Fixed RCC Jetties, 2 nos, High Level Jetty - (70m*20m), Low Level Jetty - (46.6 m*15m)
- b. Usage: All types of Cargo & Passenger vessels including Ro-Ro service
- c. Managed by: IWAI, Process for O&M of the terminal by a private operator is in progress

- d. LAD Range: i. Patna to Mehnar D/S stretch (31 km), 1.4m to 2.5m ii. Patna to Doriganj U/S stretch (45 km), 1.2m to 2.5m
- e. Commodities: Fly Ash, Cement, Stone Aggregates, Containers, Agriculture & Horticulture Products, ODC etc.
- f. Storage facility: Transit shed (45m*25m)
- g. Equipment: One rubber tyre mobile crane of capacity 70 MT and Two 20 MT rubber tyre mobile crane, suitable for handling both bulk and container cargo
- h. Labour & Manpower: 24*7 Security available. For manual handling of cargo, labour can be arranged by the operator.
- i. Access road/ rail connectivity: Paved road (dimension: 334 m*7m)
- j. Distance from the nearest National/ State highway: NH-19 (< 1 km), NH-31 & 82 (<51 km)
- k. Customs notification status: Not notified

5. Munger

- a. Type of Jetty: Floating pontoon
- b. Usage: Passenger vessels & Logistics support
- c. Managed by: IWAI
- d. LAD Range: i. Munger to Sultanganj D/S stretch (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 x15 m each), ii. Open storage area: 553.90 sq. m. iii. Weighbridge available, one 60 MT capacity iv. Dedicated truck parking space available
- g. Equipment: i. One Shore crane - 20 MT rated capacity ii. Crane not suitable to handle container cargo h. Labour & Manpower: 24*7 Security available. For manual handling of cargo, labour can be arranged by the operator.
- i. Access road/ rail connectivity: Paved road
- j. Distance from the nearest National/ State highway: NH-17 (< 2 km)
- k. Customs notification status: Notified

2. Jogighopa

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

3. Pandu

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

4. Silghat

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

5. Biswanathghat

- a. Type of Jetty: Floating Pontoon
- b. Usage: Passenger vessels & Logistics Support
- c. Managed by: IWAI
- d. LAD Range: i. Tezpur to Biswanath U/S stretch (47 km), 2.3m to 2.5m ii. Biswanath to Bargang River (U/S) stretch (22 km), 2.1m to 2.5m
- e. Labour & Manpower: Security available
- f. Customs notification status: Not notified

6. Neamati

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

7. Bogibeel

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

8. Oriamghat

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

3. INFRASTRUCTURE FACILITIES ON NATIONAL WATERWAY NO.3

1. Aluva

- a. Type of Jetty: Fixed RCC jetty, 30m*7m
- b. Usage: Bulk Cargo and Passenger vessels
- c. Managed by: IWAI
- d. LAD Range: 1m to 2m

- e. Commodities: Fertilizers, Chemicals, Minerals, Zinc
- f. Storage facility: i. Covered storage - 300 sqm ii. Open Storage 4000 sqm
- g. Equipment: i. One mobile hydraulic crane of capacity 18 MT, suitable to handle container cargo ii. One forklift of capacity 3 MT
- h. Labour & Manpower: 24*7 Security available. For manual handling of cargo, labour can be arranged by the operator.
- i. Access road/ rail connectivity: Bituminous road
- j. Distance from the nearest National/ State highway: Old NH-17 (600m)
- k. Nearest town: Kochi, Ernakulam, Kakkanad
- l. Customs notification status: Not Notified

2.CSEZ (Kakkanad)

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

3. Maradu

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

4.Vaikkom

- a. Type of Jetty: Fixed RCC jetty, 30m*7m
- b. Usage: Bulk Cargo and Passenger vessels
- c. Managed by: IWAI d. LAD Range: 1m to 2m
- e. Commodities: Coir
- f. Storage facility: i. Covered storage - 300 sqm ii. Open Storage 800 sqm
- g. Equipment: i. One mobile hydraulic crane of capacity 18 MT, suitable to handle container cargo ii. One forklift of capacity 3 MT

h. Labour & Manpower: 24*7 Security available. For manual handling of cargo, labour can be arranged by the operator.

i. Access road/ rail connectivity: Bituminous road

j. Distance from the nearest National/ State highway: SH-15 (1.8 km)

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

5.Thannermukkom

a. Type of Jetty: Fixed RCC jetty, 30m*7m

b. Usage: Bulk Cargo and Passenger vessels

c. Managed by: IWAI

d. LAD Range: 1m to 2m

e. Commodities: Coir

f. Storage facility: i. Covered storage - 300 sqm ii. Open Storage 2000 sqm

g. Equipment: i. One mobile hydraulic crane of capacity 18 MT, suitable to handle container cargo ii. One forklift of capacity 3 MT

h. Labour & Manpower: 24*7 Security available. For manual handling of cargo, labour can be arranged by the operator.

i. Access road/ rail connectivity: Bituminous road

j. Distance from the nearest National/ State highway: SH-40 (200m)

k. Nearest town: Cherthala

l. Customs notification status: Not Notified

6.Alappuzha

a. Type of Jetty: Fixed RCC jetty, 30m*7m

b. Usage: Bulk Cargo and Passenger vessels

c. Managed by: IWAI

d. LAD Range: 1m to 2m

e. Commodities: Coir, Rubber f. Storage facility: i. Covered storage - 300 sqm, ii. Open Storage 2000 sqm g. Equipment: i. One mobile hydraulic crane of capacity 18 MT, suitable to handle container cargo ii. One forklift of capacity 3 MT

h. Labour & Manpower: 24*7 Security available. For manual handling of cargo, labour can be arranged by the operator.

i. Access road/ rail connectivity: Bituminous road

j. Distance from the nearest National/ State highway: NH-66 (3 km)

k. Customs notification status: Notified

7. Thrikunnappuzha

a. Type of Jetty: Fixed RCC jetty, 30m*7m

b. Usage: Bulk Cargo and Passenger vessels

c. Managed by: IWAI

d. LAD Range: 1m to 2m

e. Commodities: Coir

f. Storage facility: i. Covered storage - 300 sqm ii. Open Storage 800 sqm

g. Equipment: i. One mobile hydraulic crane of capacity 18 MT, suitable to handle container cargo ii. One forklift of capacity 3 MT

- h. Labour & Manpower: 24*7 Security available. For manual handling of cargo, labour can be arranged by the operator.
- i. Access road/ rail connectivity: Bituminous road
- j. Distance from the nearest National/ State highway: NH-66 (5.80 km)
- k. Nearest town: Haripad
- l. Customs notification status: Not Notified

8. Kayamkulam

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

9. Kollam

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

10. Chavara

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

11. Bolgatty Island

- a. Type of Jetty: Ro-Ro/Lo-Lo Landing Point (50m*17m)
- b. Usage: Ro-Ro Service
- c. Managed by: IWAI

- d. LAD Range: 1m to 2m
- e. Facilities: Dedicated truck parking space
- f. Access road/ rail connectivity: Bituminous road
- g. Distance from the nearest National/ State highway: Container Road, Ernakulam (200 m)
- h. Customs notification status: Not Notified

12. Willingdon Island

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

APPENDICES

ABBREVIATION

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.