

STATISTICS OF INLAND WATER TRANSPORT 2022-23



भारत सरकार
पत्तन, पोत परिवहन और जलमार्ग मंत्रालय
परिवहन अनुसंधान प्रभाग
नई दिल्ली

अंतर्रदेशीय जल परिवहन के आँकड़े 2022-23



सत्यमेव जयते

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PREFACE

Statistics of Inland Water Transport is an annual publication of the Ministry of Ports, Shipping and Waterways. This publication comprehensively reflects the current status of Inland Water Transport (IWT) in the country. On the basis of information received from various arms of the Ministry the 30th edition of the publication has been prepared. This edition covers the latest available data for the year 2022-23. This edition of the publication is divided into six 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.

Transport Research Wing (TRW) in the Ministry of Ports, Shipping and Waterways has prepared this edition of the publication. I would like to complement the efforts made by the officials in TRW to bring out this edition in time.

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

Major Policy Reforms for promotion of Inland Water Transport by Government -

Enactment of National Waterways Act, 2016: National Waterways Bill, 2015 for declaration of 111 (5 existing and 106 additional) waterways was introduced and passed by the Lok Sabha on 21st December 2015 and by the Rajya Sabha on 9th March 2016. The National Waterways Act, 2016 came into force w.e.f. 12th April, 2016. 111 (106 new + 5 Existing) National Waterways (NWs) declared increasing the total length of NWs from 4,382 km to 20,262 km.

Inland Vessels Act, 2021 was passed by both houses of the Parliament and the assent of the Hon'ble President was received on 11 August 2021. The Act has been published in the gazette on 12th August 2021, which aims to replace over 100 years old Inland Vessels Act, 1917 (1 of 1917) and usher a new era in the inland water transport sector to make the Legislative framework user friendly and promote ease of doing business.

The Inland Vessels Act, 2021 (24 of 2021) notified on 12th August, 2021 has come into force w.e.f. 16th February, 2022 (Section 1 and Section 106) and w.e.f. 7th June, 2022 (Section 2 to Section 105 and Section 107 to Section 114).

Nine Rules under the Inland Vessels Act, 2021 (24 of 2021) have been Gazetted till June 2022.

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 2022-23 are given in Table 1.1 (Section 1). The details of infrastructure facilities available on state waterways as on 31.03.2023 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 West Bengal with 4741 km and Karnataka with 2902.00 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% each for the States of Bihar and Jharkhand; by contrast, in case of Assam the ratio of navigable length to total length is 25.34%. Other States with good inland water transport

prospects are West Bengal, Maharashtra and Goa where waterways navigable length is 96.88%, 93.94% and 90.84% respectively of the total length of rivers/canals/lakes reported by these states. Total length of rivers in the States as reported below is 28085.95 Km of which 55.17% is navigable length.

| Table 1 : Total and Navigable Length of Waterways in different States –2022-23 (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 | Jharkhand | 95.00 | 95.00 | 100.00 |
| 6 | Karnataka | 2902.00 | 1215.00 | 41.87 |
| 7 | Kerala | 2881.55 | 1951.85 | 67.74 |
| 8 | Maharashtra | 931.91 | 875.42 | 93.94 |
| 9 | Mizoram | 451.69 | 216.35 | 47.90 |
| 10 | Nagaland | 276.00 | 276.00 | 100.00 |
| 11 | Odisha* | 2425.00 | 1555.00 | 64.12 |
| 12 | Tamil Nadu | 181.60 | 133.60 | 73.57 |
| 13 | Uttar Pradesh | 166 | 140 | 84.34 |
| 14 | West Bengal | 4741.1 | 4593.1 | 96.88 |
| | Total | 28085.95 | 15494.05 | 55.17 |
| Source : State Governments | | | | |
| Note : | | | | |
| * Data not reported for the year 2022-23. Previous Year data has been Repeated. | | | | |

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 1261.51 Lakh tonnes in 2022-23 as against 1087.93 lakhs tonnes in 2021-22, reflecting an increase of 15.96 In terms of tonnage, Goa, Maharashtra, Gujarat, Sunderbans & Icchamati accounted for 2.3%, 50.1%, 21.9%, 4.3% and 1.19% respectively of the total cargo volume in 2022-23.

In terms of tonne km (movement of one tonne of cargo over a distance of one km) there was a increase by 9.36% in 2022-23 over 2021-22 and cargo carried on Indian Waterways is 33.28 Tonne Kms. Goa, Maharashtra, Gujarat, Sundarbans, Icchamati waterways though accounted 79.79

% of the total cargo movement on inland waterways across India, in terms of tonne Kilometer their share was 53.99 % only. In case of Maharashtra and Gujarat, high volume of cargo movement was carried over relatively short average distances of about 12.95 Kms and 11.44 Kms respectively leading to their intensive use. However, in the four National Waterways, although the volume of cargo traffic was relatively small (20.2%), the average distance is 75.92 Kms. In case of National Waterway I (Ganga- Bhagirathi-Hooghly) the average distance over which cargo moved was relatively much longer at 142.02 Kms. In case of National Waterway II, National Waterway III and National Waterway IV the distance traversed by cargo was on an average of 16.93 Kms, 6.60 Kms and 3.51Kms respectively in 2022-23.

| Table 2: Cargo Movement on Waterways | | | | | | | |
|---|----------------------------------|-----------------------------------|-------------------------|-------------------------|-----------------------------|---------------------------|----------------------------|
| S. No. | Details of Waterway | Cargo Moved (Lakh Tonnes) | | | Tonne Kms (In Lakh) | | |
| | | 2020-21 | 2021-22 | 2022-23 | 2020-21 | 2021-22 | 2022-23 |
| 1 | National Waterway No. I | 92.06 (11.0) | 109.28 (10.0) | 131.70 (10.4) | 23309.40 (52.33) | 20082.07 (52.3) | 18703.99 (44.55) |
| 2 | National Waterway No. II | 3.07 (0.4) | 4.28 (0.4) | 6.30 (0.5) | 44.9 (0.1) | 74.38 (0.2) | 106.67 (0.25) |
| 3 | National Waterway No. III | 7.38 (0.9) | 16.95 (1.6) | 32.28 (2.6) | 214.8 (0.5) | 179.19 (0.5) | 213.19 (0.51) |
| 4 | National Waterway No. IV | 68.32 (8.2) | 112.34 (10.3) | 84.18 (6.7) | 189.90 (0.4) | 316.47 (0.8) | 295.22 (0.70) |
| | Sub Total NWs | 170.83 (20.4) | 242.85 (22.3) | 254.46 (20.2) | 23759.00 (53.3) | 20652.11 (53.8) | 19319.08 (46.01) |
| 5 | Goa Waterways | 84.61 (10.1) | 45.78 (4.2) | 29.29 (2.3) | 4124.40 (9.3) | 2155.39 (5.6) | 1587.47 (3.78) |
| 6 | Maharashtra Waterways | 282.10 (33.7) | 436.06 (40.1) | 631.49 (50.1) | 5697.00 (12.8) | 1592.35 (4.1) | 8177.97 (19.48) |
| 7 | Gujarat Waterways | 257.12 (30.8) | 293.67 (27.0) | 276.57 (21.9) | 4413.00 (9.9) | 3117.61 (8.1) | 3163.83 (7.53) |
| 8 | Sunderban Waterways | 38.61 (4.6) | 61.03 (5.6) | 54.73 (4.3) | 6558.70 (14.7) | 10160.54 (26.5) | 9202.31 (21.92) |
| 9 | Ichhamati & others | 2.84 (0.3) | 8.54 (0.8) | 14.97 (1.19) | | 716.17 (1.6) | 538.30 (1.28) |
| | Grand Total | 836.11 | 1087.93 | 1261.51 | 44552.10 | 38394.17 | 41988.96 |
| 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, 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**. List of pre-2016 existing 5 NWs is detailed below-

- (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 20,186.65 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.
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:

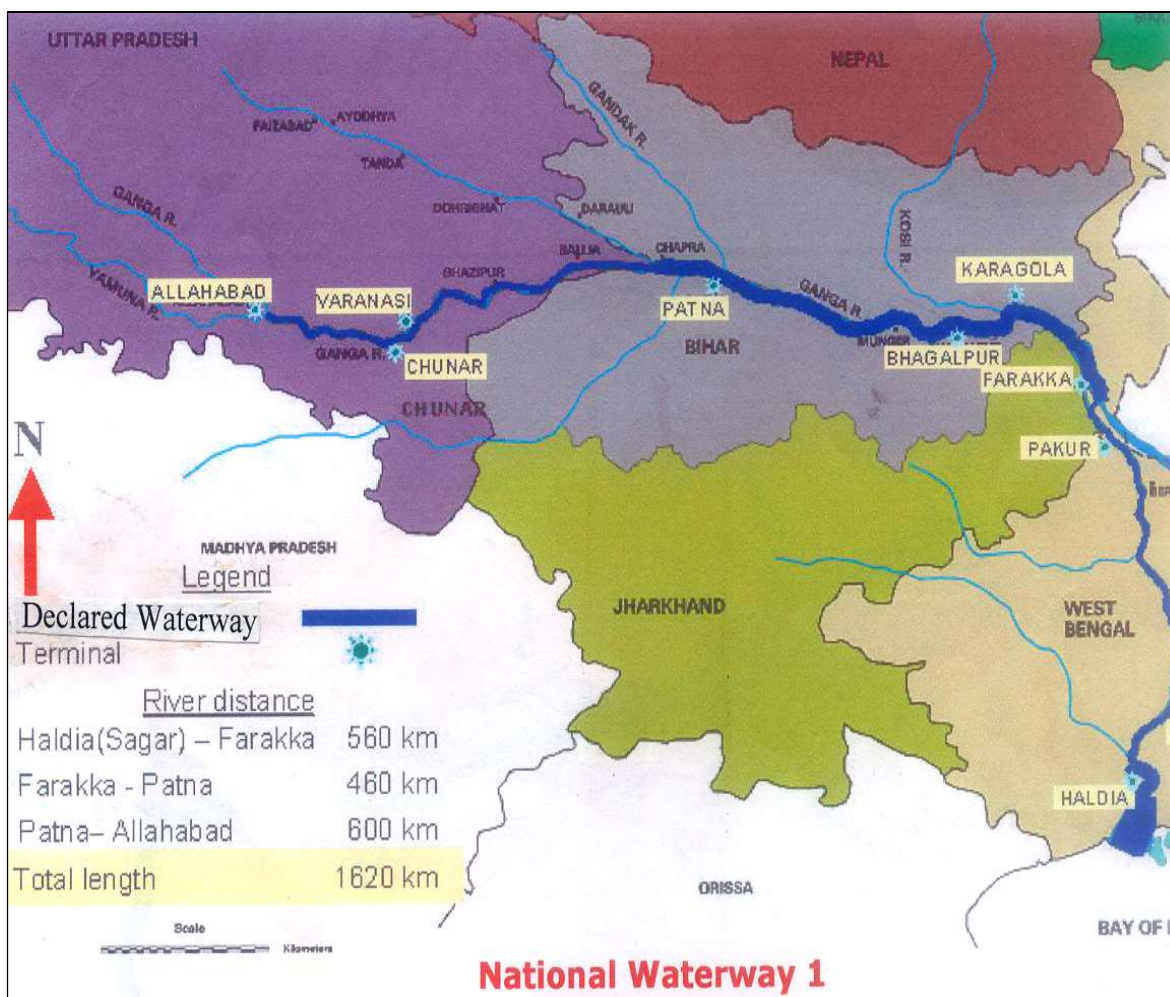
| | | | |
|---|---|--------|--|
| 1 | Category 'A': Feasible NWs with Cargo | 18 NWs | NW-9, 10, 16, 27, 68, 111, 25, 28, 37, 40, 44, 73, 85, 86, 97, 100, 57 & 94 (refer Annex-I) |
| 2 | Category 'B': Feasible NWs with only Tourism potential/ Ferry/ Cruise | 25 NWs | NW- 6, 7, 8, 14, 15, 18, 20, 23, 24, 29, 30, 36, 42, 47, 50, 52, 83, 87, 88, 90, 91, 95, 104, 108 & 110 (refer Annex.-I) |

| | | | |
|---|---|--------|--|
| 3 | Category 'C': NWs may be feasible at subsequent to development of Cat-A & B above | 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).
10. Kali River (NW-52),
11. Ichamati River (NW-44),
12. Kopili River (NW-57),
13. Dhansiri River (NW-31)

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 131.70 lakh tonnes in 2022-23 against 109.28 lakh tonnes in 2021-22 reflecting an increase of 20.52 %.

16. The composition of cargo movement on National Waterway-1 over the years is shown in Table 3 below. Mix constituted 38.53% of traffic on NW-1 followed by Building material (constituting Fly ash, stone chips etc.) (30.81%) and miscellaneous (28.41%). These three items together accounted for about 97.75 % of the total cargo moved on NW I during 2022-23.

| Table 3: Composition of Cargo Moved on National Waterway- I (In Tonnes) | | | | | | |
|--|-------------------|-------------------|-------------------|--------------------|----------------------|-----------------------|
| Name of the Commodity | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 |
| Building Material | 3568909 (65.1) | 4478790 (61.0) | 4650148 (51.0) | 4816082 (52.3) | 4204484.6 (38.5) | 4057611.38 (30.81) |
| Fertilizers | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) |
| Food items | 38340 (0.7) | 260 (Neg.) | 5134 (0.1) | 105743.47 (1.1) | 162372.71 (1.5) | 19716.09 (0.2) |
| Miscellaneous | 2816 (0.1) | 5323 (0.1) | 2162514 (23.7) | 1341447 (14.6) | 2998008.92 (27.4) | 3741221.23 (28.4) |
| Mix | 1694196 (30.9) | 2854087 (38.8) | 2269124 (24.9) | 2935470 (31.9) | 3524447.77 (32.3) | 5073877.74 (38.5) |
| Ore/Minerals | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) |
| POL/POL products | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 251000 (1.9) |
| Coal | 160262 (2.9) | 924 (Neg.) | 9409 (0.1) | 0 (0.0) | 15542.61 (0.1) | 10565.65 (0.1) |
| Iron steel | 14839 (0.3) | 9946 (0.1) | 16068 (0.2) | 7222.202 (0.1) | 22931.39 (0.2) | 15860.91 (0.1) |
| Total NW I | 5479362 | 7349330 | 9112397 | 9205965 | 10927788 | 13169853 |
| 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. | | | | | | |

Indo -Bangladesh Waterway Route

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

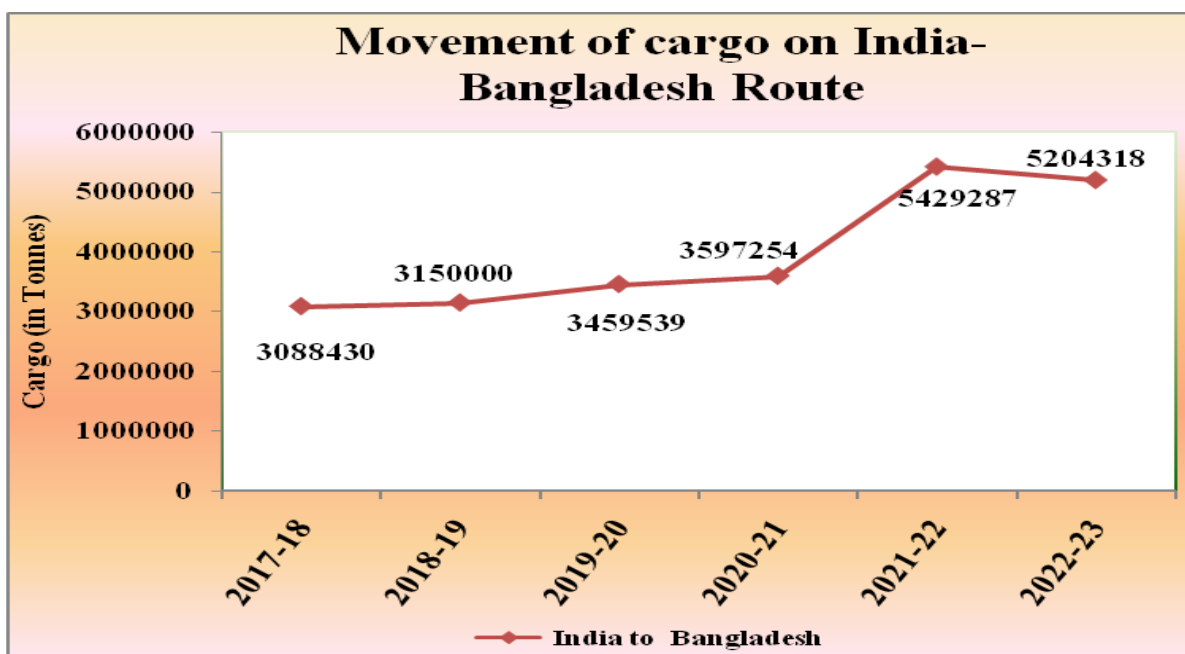
A Protocol on Inland Water Transit & Trade (PIWT&T) between India and Bangladesh has been in existence since 1972 facilitating movement of inland cargo vessels of one country on designated routes of other country for transit & trade of goods through inland waterways. For making the Protocol more effective, 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 has shown decline of 4.14% in year 2022-23 over that in 2021-22. The cargo moved over this route has decreased to 52.04 lakh tonnes in 2022-23 against 54.29 Lakh tonnes in 2021-22.

18. The graph below depicts trend in cargo movement on India-Bangladesh route (National Waterway-I) during the years 2017-18 to 2022-23.



19. The table 4 shows the cargo and the main commodities carried on India-Bangladesh route on National Waterway-I during the years 2017-18 to 2022-23.

| Table 4: Movement of Cargo (In Tonnes) on India- Bangladesh route (Tonnes) | | | | | | | |
|---|------------------|------------------|------------------|------------------|------------------|----------------|--|
| Route | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 | Commodities |
| India to Bangladesh | 30,88,430 | 31,50,000 | 34,59,539 | 35,97,254 | 54,29,287 | 5204318 | Stone Aggregates, Coal, Food Products, Steel Cargo, Others and Fly Ash |
| Total | 30,88,430 | 31,50,000 | 34,59,539 | 35,97,254 | 54,29,287 | 5204318 | |

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 30.05.2023 is detailed here under-

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

II. 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).

III. Consequent to the review held on 10.06.2020 through teleconferencing by Ministry of Shipping under the chair of Secretary (Shipping) with the IWAI, the estimated cost of JMVP was revised to Rs. 4,633.81 crores from the original estimated cost of Rs. 5,369.18 crores approved by the CCEA on 03.01.2018, thereby effecting a saving of Rs. 735.51 crores (USD 109.78 million) in the project cost. The savings comprise of Rs. 387.10 crores (USD 57.78 million) from the IBRD loan component and Rs. 348.41 crores from the counterpart fund component. The revised cost estimate also includes several activities aligned to the Arth Ganga Concept estimated to cost Rs. 746.00 crores. Consequently, on the request of IWAI/ Ministry of Shipping, Department of Economic Affairs (DEA) has requested the World Bank on 17.06.2020 for cancellation of USD 57.78 million from the overall IBRD loan for the JMVP. As a result, the IBRD loan component will get reduced to USD 317.22 million.

IV. The project implementation, including the work on activities aligned to the Arth Ganga Concept, is planned to be completed by December 2023, and is progressing as per the original schedule.

V. The project has achieved an overall financial progress of 52.59% of the revised cost and physical progress of 53.10%. Present status of civil works is as under-

VI. Physical progress of Multimodal terminal at Varanasi is 100%; and financial progress is Rs. 182.33 cr.

VII. Physical progress of Multimodal terminal at Sahibganj is 100%; and financial progress is 275.66 Cr.

VIII. Physical progress of Multimodal terminal at Haldia is 99.61 %; and financial progress is 509.05 Cr.

IX. Physical progress of new navigation lock at Farakka is 97.52 %, and financial progress is 366.27 Cr. The civil work of lock gate is substantially completed.

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

XI. Provision of least assured depth (LAD) of 3m and bottom channel width of 35/45 m on the Farakka-Kahalgaon stretch (146 Kms), Sultanganj-Mahendrapur stretch (74 kms) and Mahendrapur-Barh stretch (71 kms) through Performance Based Assured Dredging contracts. The contracts were awarded to M/s Adani Ports & SEZ Ltd. on 9.04.2018, 12.04.2019 and 12.04.2019 at costs of ₹177.00 crores, 159.30 crores and 182.9 crores respectively. Financial Progress: (1) Farakka - Kahalgaon stretch: ₹ 172.30 cr.; (2) Sultanganj - Mahendrapur stretch: ₹ 95.70 cr.; and (3) Mahendrapur-Barh stretch: 91.16 cr.

XII. Now based on consultation with stake holders, dredging plan has been reviewed by the expert committee on 18.10.2022. Accordingly, as per DMP 2022 the following procurement activities being undertaken.

XIII. Barh to Majahua stretch is divided into two parts:

- a. Digba -Majahua stretch (95 Km) – Tender floated on 28.02.2023 and pre-bid scheduled on 10.03.2023. bid opened on 23.05.2023, one bid received, technical evaluation in progress.
- b. Barh – Digba stretch (74 Km) – tender floated on 27.04.2023, bid submission due on 13.06.2023

XIV. Majhaua – Ghazipur (115 Km): Tender published on 28.04.2023, Pre-bid meeting was held on 10.05.2023, Pre bid replies is under approval, bid submission due on 20.06.2023.

XV. Trebeni – Farakka stretch –

Stretch has been divided into 2 parts after 3 failed attempts, the status of the stretches are as follows

- (i) Farakka – Katwa (199 km) – NIT has been floated on 5th January 2023 and pre-bid held on 16th January 2023. Bid opened on 05.04.2023 and 04 bids have been received. Technical evaluation under progress.
- (ii) Katwa- Tribeni (152 km) – NIT has been floated on 5th January and pre-bid held on 19th January 2023. Bid opened on 03.04.2023 and 04 bids have been received. Technical evaluation under progress.

XVI. Tender for river bend correction at upstream approach channel, new navigation lock at Farkka has been floated on 25.06.2022 and pre-bid was held on 04.07.2022. Technical bids were opened on 04.08.2022. The tender has been cancelled as all the 3 bids were nonresponsive/invalid. Now, the work is being re-tendered, bid document is prepared and under approval.

XVII. Tender for the Haldia Access channel was floated on 17.06.2022. Pre-bid was held on 29.06.2022. Technical bids opened on 18.08.2022. Single bid received technical evaluation has been completed. The board of directors have recommended the cancellation of tender.

Fresh tender has been floated on 12th January 2023 and pre-bid has conducted on 23rd January 2023. Bids opened on 06.04.2023 and 02 bids have been received. Technical evaluation under progress.

Tender for Fire protection works at MMT Haldia has been floated on 14.02.2023. Prebid held on 24.02.2023 and bids opened on 14.03.2023 and notification of award issued on 18.05.2023

XVIII. Presently, no dredging is planned on the Kahalgaon-Sultanganj stretch (60 km) due to the presence of Dolphin Sanctuary.

XIX. Freight movement on NW-1 has increased from 4.89 MT in 2016-17 to 10.93 MT in 202-21 there by marking an increase of 123% since 2016-17 and CAGR of 22.19%.

XX. Construction of IMT -Terminal at Kalughat, NIT was released on 17.12.2020; the pre-bid has been conducted on 06.01.2021. Tender was opened on 30.03.2021 only two bids received. The evaluation is completed. Bid Evaluation Report forwarded to World Bank and NOC from World Bank received on 30.08.2021. Notification of Award issued on 10.09.2021. The contractor has submitted the contract performance guarantee and the contract has been signed on 26.11.2021. Agency has mobilized at site. Physical progress stands at 56.15% and financial at 34.32 %

- a. Piling of approach trestle completed.
- b. Ground floor slab casting of TAB & WAB building completed and brick work is in progress
- c. Construction of boundary wall is in progress
- d. Pilling work of Jetty is in progress
- e. Casting of super structure elements are in progress
- f. Foundation work for electrical sub-station building in progress
- g. Work for the underground water tank is in progress
- h. Construction work for Over Head Water Tank (OHT), Security room and Weigh Bridge control room in progress
- i. Bank protection work is in progress

XXI. Tender for TSSC cum PMC for supervision services at IMT Kalughat was floated on 28.10.2021. Technical Bids were opened on 17.12.2021. Financial bid opened on 30.03.2022 and LOA to consultant (M/s Arkitechno Consultants India Pvt Limited) has been issued on 11.05.2022. The consultant has mobilized on-site on 1st June 2022 and the work is under progress.

XXII. Tender for Solid- Liquid Waste Collector has been released on 03.12.2021; pre-bid held on 13.12.2021. Technical bids opened on 03.01.2022 where 3 bids were received. Financial bid has been opened on 16.02.2022 and Notification of Award issued on 12.03.2022 to M/s TPS Infra Pvt Ltd. The equipment has been successfully delivered to the site and the work has been completed.

XXIII. 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.

XXIV. 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.

- j. The inception report and conditional assessment reports have been submitted by the consultant
- k. DPR submitted on 17.01.2023 and submitted to IIT Kharagpur for vetting on 06.03.2023. Final Tender document shared by consultant, awaiting approval from WB to proceed with NIT

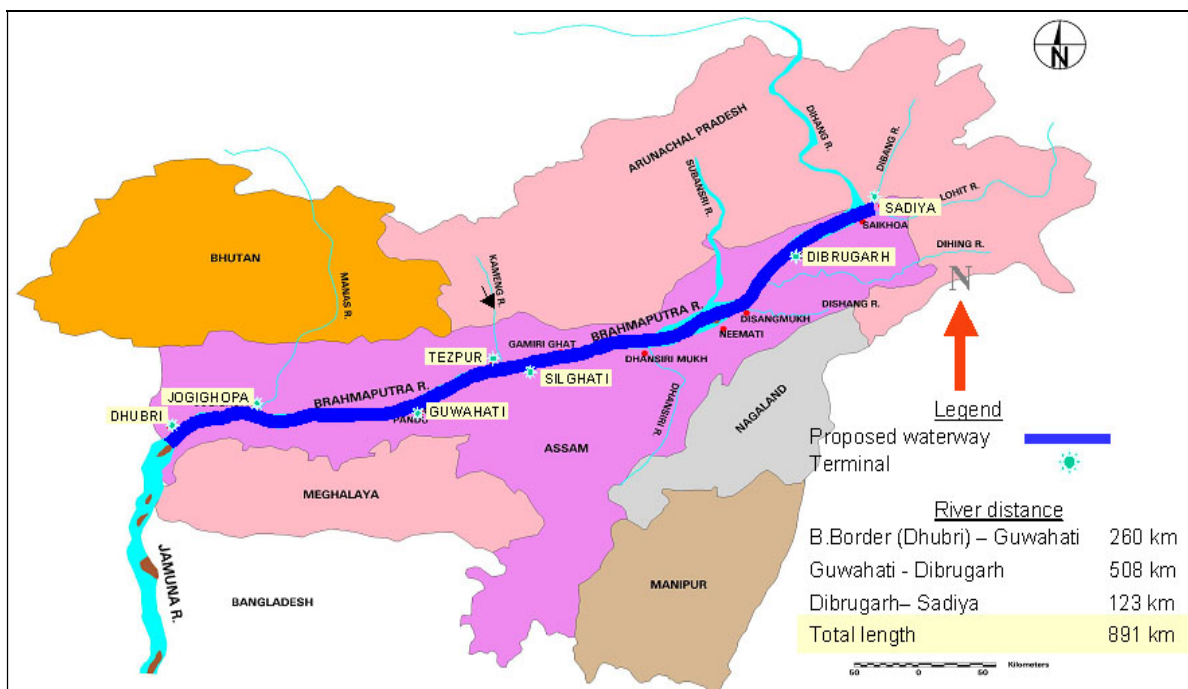
1. Extension of time submitted by the consultant till 25th June 2023, approved by competent authority on 23.3.2023.

XXV. Agreement signed between IWAI & CICMT, IIT-Kharagpur for providing consultancy services to design quick mechanical opening mechanism for pontoon kulfi system on 01.12.2021. CICMT, IIT Kharagpur presented the draft inception report for the design of quick mechanical opening for pontoon kulfi system on 24.01.2022. Draft DPR has been submitted on 10.05.2022. The final DPR has been accepted by IWAI in June 2022. IRS has appraised the design submitted by CICMT IIT KGP on 03.01.2023.

XXVI. 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. DPR submitted and approved, Cost estimate concurred by finance wing, tender document under financial concurrence prior to approval by competent authority.

XXVII. The Consultancy for Project Management Consultancy (PMC) was awarded to M/s PWC at a cost of Rs. 10,60,50,000/- + GST on 27.01.2022. The agreement was signed on 31.01.2022. The team has been deployed at IWAI office and the kickoff meeting was held on 16.02.2022 and consultant has mobilized on site on 01.02.2022.

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 with status as on 31.05.2023 are as under:

- I. Development of NW 2 at a revised SFC cost of Rs 474 crore during 2020-21 to 2024-25 is approved. The waterway is being maintained with fairway of 1.5m to 2.5 Least Available Depth (LAD) and 45 m width, with day and night navigation aids and terminals.

A navigable fairway of 45-meter width and 2.50 meter Least Available Depth (LAD) from Dhubri to Neamati (629km) and 2.00 meter LAD from Neamati to Dibrugarh (139 Km) and 1.50 meter from Dibrugarh to Sadiya (123km) is being maintained and waterway is operational for movement of cargo. The development of NW-2 enables waterway connectivity of North East Region with Kolkata/Haldia ports via Indo-Bangladesh Protocol Route.

- II. There are 18 activities approved by SFC and DIB for NW-2. Out of these 18 activities, 06 are of permanent nature viz, (i) Construction of Jogighopa terminal, (ii) Alternative Road to Pandu Port, and (iii) Ship repair facility at Pandu & (iv) Construction of Cargo cum Passenger terminal at Bogibeel, Dibrugarh (new component) (v) Boundary wall at IWAI parcel of land at Pandu, Neamati and Nagaghuli (vi) Improvement of existing approach road including study & land acquisition for Dhubri Terminal. The remaining 12 activities are of recurring nature viz., (i) Fairway development (ii) O&M of navigational aids (iii) O&M of fixed & floating terminals (iv) O&M of vessels (v) Consultancy training (vi) Maintenance of e-portal etc. These activities are carried out on annual basis.

III. Status on permanent nature activities:

(a) Terminal at Jogighopa

- M/s National Highways Infrastructure Development Corporation Ltd (NHIDCL) has been entrusted with the construction work on deposit work basis.
- NHIDCL has awarded the work on 06.10.2021 to M/s DVP Infra Project Pvt Ltd. Agreement signed on 28.12.2021
- Work has been Commenced.
- Work likely to be completed by Dec 2023. Physical progress is 25%

(b) Construction of Cargo cum Passenger terminal at Bogibeel, Dibrugarh

- Site verification for land is completed in consultation with DC, Dibrugarh.
- An agreement with IPRCL at 7.00 % PMC charge has been signed on 18.01.2023
- IPRCL submitted Feasibility Study Report (FSR) which has been accepted by IWAI.
- IPRCL Authorized to prepare DPR and tender in parallel on 24.02.2023. Accordingly, IPRCL invited tender for civil works on 08.03.2023, opened on 08.04.2023 & sought IWAI's concurrence vide letter dated 15.04.2023 being 31.87% higher than estimated cost put to tender.

- A letter has been sent to Ministry on 21.04.2023 for approval of proposal of IPRCL to award the project to L-1 bidder at 31.87% higher than cost put to tender.
- In response to Ministry's letter no. IWT-11011/118/2023-IWT dated 11.05.2023 forwarding the Minutes of Meeting held on 09.05.2023 under Chairmanship of Secretary (IWT), Ministry wherein IWAI was directed to give their recommendation on the IPRCL's justification for cost escalation and take the IWAI Board's approval, and Agenda was placed in IWAI's Board meeting held on 31.05.2023 for approval of the IPRCL's proposal to award the cited work to L-1 bidder at a cost of Rs.33,55,97,000.00(28.09% higher than the estimated cost put to tender). Board resolution is awaited.

IV. Fairway development:

- MoPS&W vide letter dated 18.11.2022 conveyed the approval for the work of development & Maintenance of fairway width of 32 m and depth of 2m/2.5 m for 3 years in various National Waterways in NER on deposit basis to DCI with 5% supervision charges and DCI will execute the work on behalf of IWAI.
- Agreement is signed with DCI & IWAI.
- Tender for NW-2(River Brahmaputra) and NW-31 (River Dhansiri) has been floated with last date for submission of bid as 31.03.2023.
- Technical evaluation is completed by DCI & submitted to appointed observer of IWAI for their observations.
- Decision pending for the decision of MoPS&W on M/s Reach Dredging.

Expenditure of SFC -Rs.184.22 Cr out of approved revised SFC Rs, 474.00 Cr. (for NW-2).

Cumulative physical progress is 38.86% (for the above I to IV).

V. A proposal of DIB for the Ship Repair facility at Pandu, Guwahati and Development of Approach Road from Pandu Port to NH-27 at a total cost of Rs. 388.00 Crores has been approved.

a. Alternative road to Pandu Port to NH-27(Estimated Cost-Rs.180 Cr.)

- Work entrusted to PWD (Roads), Govt of Assam on deposit work basis.
- MoU has been signed with PWD(Roads), Govt. of Assam on 31.08.2022.
- Final Alignment Report along with complete DPR as submitted by PWD(Roads), Govt of Assam stands approved by IWAI.
- DIB for project at a total cost of Rs. 180.00 Cr. has been approved on 03.01.2023
- Work has been awarded on 17.02.2023 to Sri Kisore Bora for the total cost of Rs.153,04,66,738.00 by the PWRD, Govt. Assam.

- Work Commenced.
- A D.O. letter from Chairman, IWAI to Chief Secretary, Government of Assam has been sent on 13.04.2023 to compress the completion period to 2 years.
- Pile test started on 14.05.2023(Physical progress-17%)
- Schedule completion by Feb, 2026(as per LoA).

b. Ship repair facility at Pandu (Estimated Cost- Rs. 208 Cr.)

- Construction of ship repair facility entrusted to Hooghly Cochin Shipyard Ltd (HCSL), a subsidiary of CSL, on deposit work basis.
- Agreement has been signed between IWAI & HCSL (A subsidiary of CSL) on 26.08.2021.
- Addendum - I to the Agreement has been signed on 16.02.2022.
- Govt. of Assam, vide letter No. DWT(T)12/07/P-II/127 dated 26.10.2022, agreed for handing over additional strip of land about 8 m wide parallel to the bank on the waterfront measuring 0.229 Acre land under the possession of IWT, Assam, to IWAI for slipway project.
- HCSL engaged NTPCW as PMC for site investigation, finalization of Proposal, preparation of DPR, detailed design, Bid Process management etc.
- DIB for project at a total cost of Rs. 208.00 Cr. has been approved on 03.01.2023
- DPR prepared, approved by IWAI.
- Work has been awarded on 31.03.2023 to M/s L & T Geostructure Pvt. Ltd., Chennai at a total cost of Rs. 145,49,50,258.00.
- As awarded cost is Rs. 7.30 cr. higher than the provision sanctioned in DIB, a letter to Ministry for approval of additional amount of Rs. 7.30 cr. has been sent on 11.04.2023.
- 3.599 acre of land under possession of IWAI has been handed over to HCSL on 18.04.2023.
- HCSL has been handed over the site to M/s L & T Geo Structure on 04.05.2023.
- Topography completed, under review with NTPCW.
- Raw materials testing commenced and trail mix started from 23.05.2023.
- Piling equipment Mobilized on 19.05.2023.
- Likely completion by March, 2025.

Expenditure of DIB-Rs. 37.48 Cr. out of approved DIB Rs.388.00 Cr. (For project on NW-2)
Cumulative physical progress is 9.66% [for the above projects V (a) & V (b)] .

23. The total cargo traffic on NW II was 6.30 lakh tonnes during 2022-23 as against 4.28 lakh tonnes during 2021-22. 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 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 |
| Building Material | - | - | - | - | - | - |
| Food items | - | - | - | - | - | - |
| Miscellaneous | 3162151 (100) | 2871817 (100) | 392767 (100) | 307095 (100) | 428134 (100) | 629853 (100) |
| Mix | - | - | - | - | - | - |
| Ore/Minerals | - | - | - | - | - | - |
| POL/POL Products | - | - | - | - | - | - |
| Total NW II | 3162151 | 2871817 | 392767 | 307095 | 428134 | 629853 |
| 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 further extended 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, Thrikkunnappuzha and Kollam. Further, terminal land is available at Kakannad and Chavara. In addition, two terminals with Ro-Ro facilities have been constructed at Bolghatty and Willingdon Island in Cochin Port limit and 2 nos. of Ro-Ro vessels built by IWAI were deployed for Ro-Ro service between these two terminals. NW-3 is provided with 24 hours navigational aids in the 205 km route. Total tonnage of 32.28 lakh tonnes of cargo transported on NW-3 during the FY 2022-23. IWAI has sanctioned INR 38 crore for reconstruction of lock gate at Trikkunnappuzha across NW-3 for utilization of full capacity of NW-3 under execution through State Govt. of Kerala.

25. The volume of cargo on NW III increased to 32.28 lakh tonnes in 2022-23 from 16.95 lakh tonnes in 2021-22 recording an increase 90.44%. 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 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 |
| Chemicals | 323501 (75.6) | 387002 (92.1) | 540997 (99.07) | 661389 (89.57) | 364702 (21.52) | 585882 (18.15) |
| Fertilisers | 57998 (13.6) | 29403 (7.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 132447 (4.1) |
| Food items | - | - | - | - | - | - |
| Mix | 42860 (10.0) | 247 (0.1) | 5054 (0.93) | 77042 (10.43) | 1218042 (71.86) | 2442393 (75.67) |
| Ore/Minerals | - | - | - | - | - | - |
| POL/POL products | 3630 (0.8) | 3630 (0.9) | 0 (0.0) | 0 (0.0) | 112289 (6.62) | 67174.1 (2.08) |
| Total NW III | 427989 | 420282 | 546051 | 738431 | 1695033 | 3227896 |
| 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 (18.15%), Mix (75.67%), Fertilisers (4.1%) and POL/POL products (2.08%) were the major commodities moved through NW-III during 2022-23.

26. The total cargo moved through all the three National Waterways (NW) increased by 30.47% from 130.51 lakh tonnes during 2021-22 to 170.28 lakh tonnes during 2022-23. In 2022-23, 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 77.3%, 3.7%, and 19.0% respectively. In terms of tonne kilometers, the share of NW I, NW II and NW III is 98.3%, 0.6% and 1.1% of the total tonne kilometers moved. The highest share of NW I in tonne kilometers reflect long average distance travelled by cargo of 142.02 kms compared with an average distance of 16.93 kms for NW II and average distance of 6.60 kms for NW III in the year 2022-23. 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) | | |
| | | 2020-21 | 2021-22 | 2022-23 | 2020-21 | 2021-22 | 2022-23 |
| 1 | National Waterway No. I | 92.06 (89.8) | 109.28 (83.7) | 131.70 (77.3) | 23309.40 (98.9) | 20082.07 (98.7) | 18703.99 (98.3) |
| 2 | National Waterway No. II | 3.07 (3.0) | 4.28 (3.3) | 6.30 (3.7) | 44.90 (0.2) | 74.38 (0.4) | 106.67 (0.6) |
| 3 | National Waterway No. III | 7.38 (7.2) | 16.95 (13.0) | 32.28 (19.0) | 214.80 (0.9) | 179.19 (0.9) | 213.19 (1.1) |
| | Total NWs | 102.51 | 130.51 | 170.28 | 23569.10 | 20335.64 | 19023.86 |
| 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 | 2017-18 | 2018-19 | 2019-20 | 2020-21 | 2021-22 | 2022-23 |
| Building Material | 3568909 (39.4) | 4478790 (42.1) | 4650148 (46.3) | 4816082.1 (47.0) | 4204485 (32.2) | 4057611.4 (23.83) |
| Chemicals | 323501 (3.6) | 387002 (3.6) | 540997 (5.4) | 657540 (6.4) | 364702 (2.8) | 585882 (3.44) |
| Fertilisers | 57998 (0.6) | 29403 (0.3) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 132447 (0.78) |
| Food items | 38340 (0.4) | 260 (Neg.) | 5134 (0.1) | 105743.47 (1.0) | 162373 (1.2) | 19716.1 (0.12) |
| Miscellaneous | 3164967 (34.9) | 2877140 (27.1) | 2555281 (25.42) | 1648542 (16.1) | 3426142 (26.3) | 4371074.1 (25.67) |
| Mix | 1737056 (19.2) | 2854333.9 (26.8) | 2274178 (22.6) | 3016369 (29.4) | 4742490 (36.3) | 7516270.6 (44.14) |
| Ore/Minerals | 0 (0) | 0 (0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) |
| POL/POL Products | 3630 (Neg.) | 3660 (Neg.) | 0 (0.0) | 0 (0.0) | 112289 (0.9) | 318174.10 (1.87) |
| Coal | 160262 (1.8) | 924 (Neg.) | 9409 (0.1) | 0 (0.0) | 15543 (0.1) | 10565.7 (2.06) |
| Iron & Steel | 14839 (0.2) | 9946 (0.1) | 16068 (0.2) | 7222.20 (0.1) | 22931 (0.2) | 15860.91 (0.09) |
| Total | 9069502 | 10641459 | 10051215 | 10251499 | 13050955 | 17027602 |
| 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

28. NW-4 was declared in 2008 for the length of 1,078 km comprising of the Kakinada–Puducherry stretch of canal 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 2,916 km by extending river Godavari upto Nasik and river Krishna upto Galagali.

- Projects completed so far include fairway development works in the Vijayawada-Muktyala stretch of river Krishna, fabrication /installation of four floating pontoons and land acquisition for the Ro-Ro terminals at Harshchandrapuram and Muktyala.
- Land acquisition for the Ro-Ro terminal at Ibrahimpatnam is underway with the State Govt. of Andhra Pradesh.

NATIONAL WATERWAY 5

29. 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 Kalinga nagar industries, textile 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 length wise 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 toGeonkhaliisnotconsideredfeasiblefordevelopment:

- (i) Phase-I:BetweenParadip/DhamraandPankapal : 212Km.
- (ii) Phase-II:PankapaltoTalcher : 120Km.

Phase-Idevelopmentcovering212KmbetweenParadip/DhamraandPankapalisproposed.

Action plan for development of NW-5:

- i. Monthly Longitudinal Thalweg Survey for assessing depth and horizontal / vertical clearance for cross structures / bridges (212 km).
- ii. Consultancy work has been completed for preparation of Detailed Project Report (DPR) followed by Front End Engineering Design (FEED) for hydraulic interventions except the final vetting of design and drawing, modification of cross structures for navigational clearances. Environmental clearance (EIA & EMP) including CRZ and Wildlife Clearance - MoEF&CC informed on 05th Jan, 2021 that no EC is required. Only CRZ & Wild life clearances are to be obtained from Govt. of Odisha.
- Navigational clearance below existing power lines from Dhamra / Paradip to Pankapal on deposit basis through Govt. of Odisha is nearing completion.
- Under New initiative movement of Gypsum started from IFFCO Riverine Jetty on NW-64 (Mahanadi) to Paradip Port (NW-5). Nearly 4,02,613 MT of Gypsum have been shipped through IWT mode during the FY 2022-23. This will clear the huge accumulation of (approx. 52 million MT) gypsum at the IFFCO plant. MoU signed between IWAI and UltraTech cement for transport of the gypsum to its plants around Hooghly-Ganga River systems in West Bengal and Bihar.
- An EoI published for development of the waterway transport on rivers Brahmani (NW-5) and Mahanadi (NW-64) under PPP (Design, Built, Finance, Operate & Transfer - DBFOT model) for connecting Ports of Paradip and Dhamra to Kalingnagar - Talcher mining and industrial areas.
- Only single bid is received in EoI process with a condition for investment on DBFOT model.
- A Transaction Advisor (M/s KPMG) has been appointed for finalising the concessionaire for development of the select stretches of NW-5 & NW-64 in Odisha. The Consultant is preparing the bid document for RFQ and RFP.

NATIONAL INLAND NAVIGATION INSTITUTE (NINI)

30. The National Inland Navigation Institute (NINI) was set up by Inland Waterways Authority of India (IWAI) at Patna, Bihar in February 2004 with a view to Develop Human Resource for the Inland Water Transport Sector. The Institute is managed by Inland Waterways Authority of India (IWAI) under the Ministry of Ports, Shipping and Waterways, Govt. of India. Total 461 Trainees have been trained for the F.Y. 2022-23 & the major achievements during the year 2022-23 were as below:-

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

- Induction Training of Inland Vessel G.P. Rating.
- Preparatory Course for all grades of Deck & Engine.
- Inland Manoeuvring Simulator Course.
- Basic Safety Course for Inland Vessel
- Hydro-graphic Survey
- Navigational Aids & Pilot Training
- Operation, repair & Maintenance of Inland Vessel
- Basic Dredger Course
- Advance Dredger 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
- Jalayatri Sahayak Course for IWT Assam Personnel

(i) The following training activities were carried out:

- Induction Training G.P. Rating Course (35th, 36th & 37th Batch)
- The GP Rating (Inland Vessel) trainees were imparted practical training on Training Ship (HSD) Sone.
- Master Trainer for Safe Swimming Programme was successfully conducted for Bihar State Disaster Management Authority, Govt of Bihar.
- Workshop on Boat & Navigational Safety with special reference to Hydro-Meteorological Disaster by NIDM.

- Basic Safety Course for Inland Vessel (PSSSR, PST, EFA, PST & SSC)
- Jalayatri Sahayak Course for IWT Sector
- Hydrographic & Vessel Crew Training.

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

- Serang
- Master Class II
- Master Class I
- Second Class Engine Driver
- First Class Engine Driver
- I V Engineer
- Inland Vessel Manoeuvring Simulator Course

(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
- I V Engineer

(iv) Affiliations and Associations:

- The ISO 9001:2015 certificate by ABS Quality Evaluations renewed subsequent to their inspection of the Institute. The process for developing and adopting the ISO approved quality management system for knowledge and Training Management (21001-2018) is also on going.
- 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 area so mutual interest.
- Subscription to the digital plat form 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. The Administration & Management of National Inland Navigation Institute has been awarded to M/s Sea Sprint Services Pvt. Ltd for smooth operation, administration and systematic development of academic activities at NINI including placement of trainees and development of NINI as Centre of Excellence.

IWT ACTIVITIES – STATE GOVERNMENT

31. 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.) | | | |
| | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2019-20 | 2020-21 | 2021-22 | 2022-23 |
| Assam | 203 | 256 | 81 | 81 | 6585.91 | 1979.20 | 4385.95 | 3155.38 |
| Bihar* | 138 | 68 | 16 | 16 | 578 | N.A. | 0.00 | 0.00 |
| Goa | 244 | 265 | 233 | 253 | - | - | - | - |
| Karnataka | 37 | 37 | - | 412 | 1617.00 | 916.25 | 928.02 | 1283.79 |
| Kerala | 5590 | 5018 | 5248 | 5892 | 20535.31 | 8874.78 | 19224.53 | 20262.39 |
| Maharashtra | 1663 | 1421 | 1440 | 1503 | 15922.30 | 9106.53 | 13667.60 | 18724.02 |
| Odisha* | 73 | 73 | 66 | 66 | 131.22 | 131.22 | 118.41 | 118.41 |
| West Bengal | 2381 | 2399 | 2369 | 551 | 116880 | 126980 | 136369 | 29762.61 |
| Tamil Nadu | 2 | - | - | 2 | - | - | - | - |
| Gujarat | 454 | 437 | 421 | 286 | - | - | - | - |
| Jharkhand* | - | 2 | - | - | - | - | - | - |
| Uttar Pradesh | | | | | | | | 23.86 |
| TOTAL (reporting states) | 10785 | 9976 | 9874 | 9062 | 162249.74 | 147987.98 | 174693.51 | 73330.46 |

Source: State Governments

*:Information has not received. Previous Year data has been Repeated.

The total number of vessels in the States during 2022-23 was 9062 compared to 9874 vessels in the year 2021-22. Kerala has reported the highest numbers of vessels 5892 followed by Maharashtra (1503) and Karnataka (412). However, the Number of Passengers carried in the year 2022-23 was 73330.46 thousand numbers. West Bengal has reported the highest No. of Passengers carried through waterways which was 29762.61 thousand numbers followed by Kerala 20262.39 thousand numbers.

PERFORMANCE OF COMPANIES ENGAGED IN IWT

32. The data received from IWT companies shows that amongst the reporting private companies the maximum number of vessels was held by Eastern Navigation (38) followed by, Vedanta Ltd. (32), West Bengal Surface Transport Corporation Ltd. (28), Hooghly Nadi Jalapath Paribahan Samabaya Samity, Kolkata (27), and Jindal ITF Ltd. (25). Detailed performance of companies engaged in inland water transport activities is given in Table 4.1 & 4.2 (section 4).

The Maximum cargo of 3382.67 thousand tonnes was carried by PNP Maritime Services Pvt. Ltd followed by JSW Jaigarh Port Ltd. (2255.58), Vedanta Ltd. (1743.26 thousand tonnes), and Jindal ITF Ltd. (575 thousand tonnes).

33. Cargo moved by top 10 reporting private companies along with their number of powered vessels employed in 2022-23 is given below:

| Table 10: Top Private Companies - Cargo moved along with Powered Vessels 2022-23 | | |
|---|----------------------------------|-------------------------------|
| Name of the Company | Cargo moved ('000 tonnes) | No. of Powered Vessels |
| 1. PNP Maritime Services Pvt. Ltd. | 3382.67 | 20 |
| 2. JSW Jaigarh Port Ltd | 2255.58 | 4 |
| 3. Vedanta Ltd | 1743.26 | 32 |
| 4. Jindal ITF Ltd. | 575 | 25 |
| 5. JSW Salav Steel Ltd. | 418.39 | 1 |
| 6. TP RoyChowdhury & Co. Pvt. Ltd. | 352.11 | 5 |
| 7 VIVADA Inland Waterways Ltd., Kolkata | 251 | 12 |
| 8. Cochin Bunkers Pvt. Ltd. | 219.41 | 4 |
| 9. Infrastructure Logistics Pvt. Ltd. | 218.6 | 4 |
| 10. Azzura Marine Liners Pvt. Ltd. | 154.15 | 4 |

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

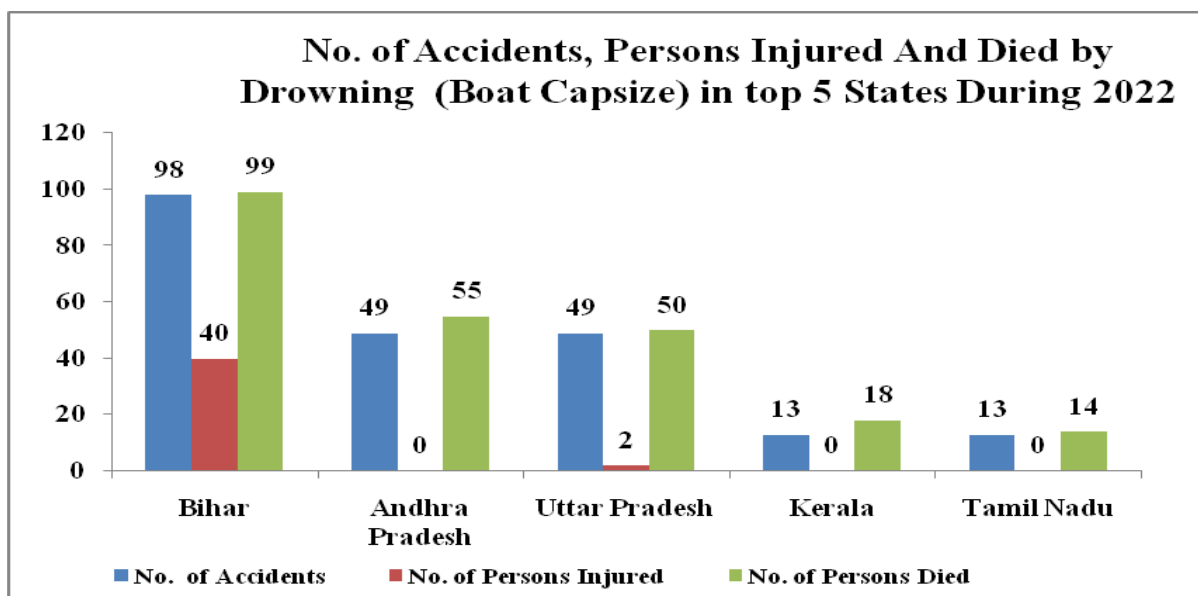
FINANCIAL OUTLAY & EXPENDITURE FOR IWAI

35. The Budget Estimate (BE) and RE during 2019-20 was Rs. 614.56 crore and Rs. 406.60 crore respectively and expenditure during the same year was Rs. 732.93 crore (including expenditure from Bond fund raised during 2017-18). The Budget Estimate (BE) and RE during 2020-21 was Rs.540.00 crore and Rs. 413.50 crore respectively and expenditure during the same year was Rs. 367.30 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. 425.45 crore. For the year 2022-23 the Budget Estimate (B.E.) was Rs. 490.81 crore and Revised Estimate was Rs. 495.31 crore. The expenditure during the same year is Rs. 514.70 crore (provision/unaudited). BE 2023-24 is Rs. 861.96 crore.

Detailed financial outlay & expenditure for IWAI is given in Table 5.1 (section 5).

INLAND WATERWAYS TRANSPORT ACCIDENTS

34. The total number of accidents on inland waterways during the year 2022 was 256 out of which 98 were reported in Bihar followed by Andhra Pradesh and Uttar Pradesh with 49 accidents each. The number of deaths during the year due to boat mishaps was highest in Bihar at 99 followed by Andhra Pradesh and Uttar Pradesh with 55 and 50 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) for the top five state during 2022 is presented in the graph given below.



Source: Accidental Deaths & Suicides in India- 2022, *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 | 2022-23 | |
|-------------------------|--|--|------------------|
| | | Total Length of the Rivers/Canals/Lakes in the State | Navigable Length |
| 1 | 2 | 3 | 4 |
| 1 ANDHRA PRADESH | | | |
| (i) | Godavari (Bhadrachalam to Rajahmundry) | 1530 | 171 |
| (ii) | Krishna(Wazirabad to Vijayawada) | 1400 | 157 |
| | 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) | Twang (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 |
| | 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 | 2022-23 | |
|------------------------|---------------------------|--|------------------|
| | | 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 |
| | Total | 2902 | 1215 |
| 7 KERALA | | | |
| (i) | Total of Rivers | 1927.359 | 1189.212 |
| | Others ** | 954.19 | 762.641 |
| | Total | 2881.55 | 1951.85 |
| 8 MAHARASHTRA | | | |
| (i) | Banganga River | 7.51 | 2.9 |
| (ii) | Dudh River | 11.33 | 5.89 |
| (iii) | Vaitarna River | 50 | 39.3 |
| (iv) | Ulhas River | 38.6 | 27.4 |
| (v) | Kal River | | 14.7 |
| (vi) | Jagbudi River | 25.31 | 23.7 |
| (vii) | Shastri River | 51.99 | 48.6 |
| (viii) | Amba River | 49.65 | 44.2 |
| (ix) | Patalganga River | 24.59 | 15.8 |
| (x) | Bhageshwari River | 13.66 | 9.4 |
| (xi) | Kundalika River | | 32.9 |
| (xii) | Savitri River | 57.17 | 52.6 |
| (xiii) | Vashishti River | | 48.5 |
| (xiv) | Machkandi River | 21.16 | 8.26 |
| (xv) | Vaghotan River | 43.7 | 33.3 |
| (xvi) | Achra River | 10.01 | 2.91 |
| (xvii) | Gad River | 21.23 | 21 |
| | Others | 506 | 444.06 |
| | Total | 931.91 | 875.42 |
| 9 UTTAR PRADESH | | | |
| (i) | Ganga | 166 | 140 |
| | Total | 166 | 140 |

Table No. 1.1

Navigable Waterways in India

(In Kms.)

| Sl. No. | State/Rivers/Canals/Lakes | 2022-23 | |
|----------|-----------------------------|--|------------------|
| | | Total Length of the Rivers/Canals/Lakes in the State | Navigable Length |
| 1 | 2 | 3 | 4 |
| 10 | 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 |
| 11 | ODISHA ** | | |
| (i) | Mahanadi | 493 | 199 |
| (ii) | Brahmani | 541 | 277 |
| (iii) | Baitarani | 344 | 32 |
| (iv) | Subarnarekha | 50 | 50 |
| (v) | Budha Balanga | 35 | 35 |
| (vi) | Dhamara | 20 | 20 |
| (vii) | Salandi | 17 | 17 |
| (viii) | Panchputra | 21 | 21 |
| (ix) | Parnei | 45 | 45 |
| (x) | Hatel | 30 | 30 |
| (xi) | Bansagadai | 32 | 32 |
| (xii) | Hansua | 37 | 37 |
| (xiii) | Tirkota | 18 | 18 |
| (xiv) | Jamboo | 6 | 6 |
| (xv) | Gobari | 16 | 16 |
| (xvi) | Ramchandi | 16 | 16 |
| (xvii) | Kharansi | 14 | 14 |
| (xviii) | Batigharia | 14 | 14 |
| (xix) | Birupa | 110 | 110 |
| (xx) | Genguti | 45 | 45 |
| (xxi) | Luna | 37 | 37 |
| (xxii) | Devi | 20 | 20 |
| (xxiii) | Prachi | 15 | 15 |
| (xxiv) | Kadha | 30 | 30 |
| (xxv) | Kushabhadra | 25 | 25 |
| (xxvi) | Daya | 9 | 9 |
| (xxvii) | Rajua | 7 | 7 |
| (xxviii) | Makara | 11 | 11 |
| | Others ** | 367 | 367 |
| | Total | 2425 | 1555 |
| 12 | 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 |

Table No. 1.1

Navigable Waterways in India

(In Kms.)

| Sl. No. | State/Rivers/Canals/Lakes | 2022-23 | |
|-----------------------|-------------------------------|--|------------------|
| | | Total Length of the Rivers/Canals/Lakes in the State | Navigable Length |
| 1 | 2 | 3 | 4 |
| 13 WEST BENGAL | | | |
| (i) | Sankosh | 77 | 77 |
| (ii) | Gangadhar | 96 | 96 |
| (iii) | Raidak | 144 | 144 |
| (iv) | Torsa | 99.2 | 99.2 |
| (v) | Kaljani | 87 | 87 |
| (vi) | Jaldakha | 163 | 163 |
| (vii) | Teesta | 140 | 140 |
| (viii) | Mahananda | 206 | 58 |
| (ix) | Kulik | 56 | 56 |
| (x) | Chiramati | 80 | 80 |
| (xi) | Tangon | 53 | 53 |
| (xii) | Punarbhaba | 55 | 55 |
| (xiii) | Atrai | 51 | 51 |
| (xiv) | Ajoy | 174 | 174 |
| (xv) | Jalangi | 232 | 232 |
| (xvi) | Churni | 71 | 71 |
| (xvii) | Dwarka | 129 | 129 |
| (xviii) | Brahmani | 77 | 77 |
| (xix) | Kopai | 39 | 39 |
| (xx) | Barkeswar | 102 | 102 |
| (xxi) | Disergarh- Disergarh Barrage | 64 | 64 |
| (xxii) | Durgapur Barrage- Suri Kalna | 116 | 116 |
| (xxiii) | Beyond Shampur | 193 | 193 |
| (xxiv) | Mundaswari-Mankar | 64 | 64 |
| (xxv) | Dwarekeswas Ondagram - Bandar | 103 | 103 |
| (xxvi) | Silbati | 135 | 135 |
| (xxvii) | Rupnarayan | 77 | 77 |
| (xxviii) | Kansabati | 347 | 347 |
| (xxix) | Kalighai | 77 | 77 |
| (xxx) | Subarnarekha | 72 | 72 |
| (xxxi) | Hooghly | 580 | 580 |
| (xxxii) | Rasulpur | 29 | 29 |
| (xxxiii) | Muriganga | 32 | 32 |
| (xxxiv) | Saptamukhi | 80.4 | 80.4 |
| (xxxv) | Gumar | 26 | 26 |
| (xxxvi) | Bidyadhari | 51 | 51 |
| (xxxvii) | Gosaba | 32 | 32 |
| (xxxviii) | Raimongal | 32 | 32 |
| (xxxix) | Ichamati | 232 | 232 |
| | Others@ | 267.5 | 267.5 |
| | Total | 4741.1 | 4593.1 |

Table No. 1.1

Navigable Waterways in India

(In Kms.)

| Sl. No. | State/Rivers/Canals/Lakes | 2022-23 | |
|---------|---------------------------|--|------------------|
| | | Total Length of the Rivers/Canals/Lakes in the State | Navigable Length |
| 1 | 2 | 3 | 4 |
| 14 | NAGALAND # | | |
| | (i) Tizu and Zunki | 42 | 42 |
| | (ii) Dhansiri/Chathe | 110 | 110 |
| | (iii) Dikhu | 63 | 63 |
| | (iv) Doyang | 61 | 61 |
| | Total | 276 | 276 |
| 15 | JHARKHAND* | | |
| | (i) Ganga | 95 | 95 |
| | Total | 95 | 95 |

Source: State Governments

* Information for the year 2022-23 has not received. Previous Year data has been Repeated

** Including Canals, Lakes & other waterways.

*** Data is reported nil for the year 2022-23

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

'@@- Navigation could be possible only after renovation

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

| Table No. 1.2 | | | | | |
|---|--|-------------------------------------|---|---|--|
| Infrastructure Facilities Available on National Waterways (As on 31-3-2023) | | | | | |
| 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 m ² | Land taken from Haldia Dock Complex (HDC) on lease basis. |
| (ii) Budge Budge - Kolkata | Nil | Nil | Nil | Nil | Nil |
| (iii) a) BLSN/G.R. Jetty-1,Kolkata | 1500 | One (Floating) | Nil | Open Space area 6000 m ² | |
| (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 IWA and it also used for berthing of cruise vessels. Also two numbers of crane pontoon available for cargo handling. |
| (v) BTPS Jetty (Tribeni) | 1500 | Two(Floating) | 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 IWA's land 2000 Sq. m | Land belongs to State Govt. of W.B. being used by IWA for embark/disembark of passenger/Tourist, loading/unloading of other logistics support. |
| (viii) Metihari/Swaroopganj | 600 | One(Floating) Pontoon | Nil | One Godown of size 4.5 x 5 m and Open space 290 m ² | Land taken from KoPT on lease basis |
| (ix) Kalna/Katwa | 600 | One(Floating) | Nil | To be stored on Pontoon. | Land not available pontoon placed on water front |
| (x) Hazarduari | 600 | One (floating) | Nil | To be stored on Pontoon. | Land not available pontoon placed on water front |
| (xi) Pakur (Putimari) | 1500 | One(fixed) | Nil | Nil | Owned by Farakka Barrage project(FBP) |
| (xii) Farakka | | | | | |
| a. D/s Farakka of existing lock gate | 1500 | One(fixed) | Nil | Nil | Being used for embark/disembark of passenger/Tourist, loading/unloading of other logistics support. |
| b. U/s Farakka (IWA's Floating jetties) | 600 | One(Floating) | Nil | Nil | Being used for embark/disembark of passenger/Tourist, loading/unloading of other logistics support. |
| c. Owned by Jindal ITF | 2500 (two vessels at a time) | Jetty with conveyor | Nil | Nil | Being used for unloading NTPC coal at Farakka Super Thermal Power Station |
| 2. Farakka - Barh : (400 km), Depth- 2.1 to 2.5 | | | | | |
| (xiii)Rajmahal (Manglaghat) | 600 | One(Floating) | Nil | To be stored on Pontoon. | Being used for berthing of vessel, embark/disembark, loading/unloading and logistics support. |
| (xiv) MMT Sahibganj | 1500 | fixed RCC Jetty of 270m X 25m | 1. Mobile harbour crane (1 Nos 50T capacity@ 17-18m outreach. 2. Barge loader with loading capacity of 1200TPH 3.Conveyor system with fixed hopper 1200 TPH 4. 08 front end loaders. | Storage shed 130m X 32m, 'Land area 182.70 acres | a) Being used for loading of stone chips and embark/disembark and logistics support. b) A permanent RCC jetty has been constructed and operational since September 2019 for handling of Cargo. |

| Table No. 1.2 | | | | | |
|--|--|---|--|--|---|
| Infrastructure Facilities Available on National Waterways (As on 31-3-2023) | | | | | |
| 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) Bateshwarsthan | 600 | One (Floating) | Nil | To be stored on Pontoon. | Being used for berthing of vessel, embark/disembark, loading/unloading and logistics support. |
| (xvi) Bhagalpur | 600 | One(floating) | Nil | To be stored on Pontoon and open space of IWA's land 1000 Sq. m, RIS Station | Being used for berthing of vessel, embark/disembark, loading/unloading and logistics support. |
| (xvii) Munger | 600 | One (Floating) | Nil | To be stored on Pontoon and RIS Station area | Being used for berthing of vessel, embark/disembark, loading/unloading and logistics support. |
| 3. Barh-Ghazipur : (290 km),Depth - 1.6 to 2.0 | | | | | |
| (xviii) Semaria | 600 | One(floating) | Nil | To be stored on Pontoon. | Being used for berthing of vessel, embark/disembark, loading/unloading and logistics support. |
| (xix) Patna | 1500 | Two Fixed RCC Jetty (Low level Jetty 46.6m * 15m, High level Jetty 70m * 20m berth respectively) | Shore Crane-2 with capacity of 01 - 20 MT subject to radius. Contanar Crane-1 with capacity of 70 MT | 45m x 25m Transit shed and open storage area ~ 1000 Sq. m, | Permanent (Low & High) level Jetty. Being used for berthing of vessel, embark/disembark, loading/unloading and logistics support. |
| (xx) 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 | | | | | |
| (xxi) Ghazipur/ Raighat | 600 | One(floating) | Nil | To be stored on Pontoon. | Being used for berthing of vessel, embark/disembark, loading/unloading and logistics support. |
| (xxii) (a) MMT Varanasi | 1500 | One fixed RCC Jetty of 200m X 35m | Mobile harbour crane (2 Nos 50 MT 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 |
| (xxiii) Ravidas Ghat | 600 | One(floating) | Nil | | Being used for berthing of vessel, embark/disembark, loading/unloading and logistics support. |
| (xxiv) 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 at Manihari, Bhagalpur, Munger, Hatidah, Barh, Patna, Maujampur, Govindpur Khas, Ghazipur, Varanasi. 4) River Notices & LAD Report are issued on fortnightly basis during lean season and monthly basis during flood season. | | | | | |

| Table No. 1.2 | | | | | |
|--|--|---|---|---|---|
| Infrastructure Facilities Available on National Waterways (As on 31-3-2023) | | | | | |
| 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(Rcc Ro Ro Jetty) | Crane prontoon, one tyre mounted crane of 20 T | (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 | | | Open storage facility available | Project work for Multi Modal Terminal is under progress |
| (c) Pandu | 2000 | One(low level RCC jetty) + One High level RCC jetty | One Container crane of 75 T capacity, one tyre mounted crane of 20 T capacity, two crane pontoon and two floating 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 |
| (e) Biswanath | 2000 | One(floating) | Pontoon | Open storage facility available | DGPS station is commissioned. |
| (f) Neamati | 2000 | One (floating) | Pontoon | - | |
| 3. Neamati-Dibrugarh : (123 km), Depth- 1.5 | | | | | |
| (g) Bogibeel | 2000 | One (floating) | Pontoon | - | |
| 4. Dibrugarh-Sadiya (Oriumghat) : (139 km),Depth - 1.5 | | | | | |
| (h) Oakland/ Dibrugarh | 1000 | One(floating) | Pontoon | - | DGPS station is commissioned. The berthing pontoon is shifted temporarily due to erosion to Oriumghat |
| (i) Oriumghat | 1000 | One (floating) | Pontoon | - | 1.77 hectare land acquired for development of terminal. |
| Note: 1) Floating pontoons can be provided at any location along waterway on demand. 2) Night navigation facilities are available between Bangladesh Border and Silghat (440km). 3) River notices issued on regular monthly/fortnightly basis. 4) Different Global Positioning System(DGPS) Stations to cover entire waterway are provided at Dhubri, Jogighopa,Biswanath and Dibrugarh. | | | | | |

| Table No. 1.2 Infrastructure Facilities Available on National Waterways (As on 31-3-2023) | | | | | |
|---|--|---------------------------------|--|--|---|
| 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) Kottappuram | 350.0 | One 30m (RCC Jetty) | Nil | Covered storage 300 Sqm and open storage 800 Sqm. | The Terminal godown is leased to Kerala State Warehousing Corporation w.e.f June 2018 |
| 2. Udyogmandal Canal : (23 km), Depth -2.0 | | | | | |
| (b) Aluva | 350.0 | One 30m (RCC Jetty) | Two 18 Tonne crane and one 3 Tonne Fork lift | Covered storage 300 Sqm and open storage 1500 Sqm. | Approach road is available.The Terminal godown is leased to KSWC for 7 years. |
| 3. Champakkara Canal: (14 km), Depth 2.0 | | | | | |
| (c) Emakulam GC (Maradu) | 350.0 | One 30 m (RCC Jetty) | Three 18 Tonne crane and Three 3 Tonne Fork lift | Covered godown 300 Sqm and 2000 Sqm Office area. | Approach road is available. Acquisition of land for widening of approach road for 8m width is in progress. |
| (d) Kakkanad (CSEZ) | 350.0 | 10 m temporary jetty | Nil | Nil (only land available) | Approach road is available. |
| 4. Kochi - Chavara: (107 km), Depth 2.0 | | | | | |
| (e) Vaikom | 350.0 | One 30 m (RCC Jetty) | One 18 Tonne crane and one 3 Tonne Fork lift | Covered godown 300 Sqm and 1200 Sqm Open Storage. | Approach road is available. |
| (f) Cherthala (Thanneermukkom) | 350.0 | One 30 m (RCC Jetty) | One 18 Tonne crane and one 3 Tonne Fork lift | Covered godown 300 Sqm and 1800 Sqm Open Storage. | Approach road is available. |
| (g) Alappuzha | 350.0 | One 30 m (RCC Jetty) | Nil | Covered godown 300 Sqm and 2500 Sqm Open Storage. | Approach road is available. |
| (h) Thrikkunnappuzha | 350.0 | One 30 m (RCC Jetty) | One 18 Tonne crane and one 3 Tonne Fork lift | Covered godown 300 Sqm and 600 Sqm Open Storage. | Approach road is available. |
| (i) Kayamkulam | 350.0 | One 30 m (RCC Jetty) | Nil | Covered godown 300 Sqm and 1600 Sqm Open Storage. | Approach road is available. |
| (j) Chavara | 350.0 | Nil | Nil (land only) | Nil (land only) | Approach road is available. |
| 5. Chavara - Kollam (31 Km), Depth 2.0 | | | | | |
| (k) Kollam | 350.0 | One 30 m (RCC Jetty) | One 3 Tonne Fork lift | Covered godown 300 Sqm and 3500 Sqm Office area. | Approach road is available.The Terminal godown is leased to KSWC for 7 years. |
| 6. CPT Area: Depth 2.0 | | | | | |
| (l) Willingdon Island | 16 TEU | One berth for container vessels | Nil | Nil | These terminals have been constructed for container movement to ICTT, Vallarpadam, Operation commenced w.e.f. 23.02.2021. |
| (m) Bolghatty Island | 16 TEU | One berth for container vessels | Nil | | |
| Source: Inland Waterways Authority of India (IWAI) | | | | | |
| Note: Channel marks for 24 hrs. navigation are provided on NW 3, NW 8 & NW 9. Note :- 1) Channel marks for 24 hrs navigation provided on the entire waterway. 2) River notices issued on regular fortnightly basis. 3) Depth is in meters and about 330 days in a year. | | | | | |

Table No. 1.3

Infrastructure Facilities Available on State Waterways (As on 31-3-2023)

| 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 IWAI'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 IWAI'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 Kms 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 31.3.2023)

| Sl. No. | Navigational Channel | Depth (Meters) | Availability and Capacity of Terminals | | | | | Remarks |
|---------|---|----------------|--|--|---------------|--|---|---------|
| | | | Place | Size of vessels that can be accommodated (DWT)/dimension | No. of berths | Cargo handling equip. and their capacity | Type and extent of storage facility available | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 4 | Odisha* | | | | | | | |
| | | | Balugaon | 5x15 Mtr | 2 | | | |
| | Chilka Lake | 1 to 2 Mtr. | Krushnaprasadagda | 5x15 Mtr | 1 | | | |
| | | | Kaliya | 5x15 Mtr | 1 | | | |
| | | | Satapada | 5x15 Mtr | 20 | | | |
| | Devi River | 3 to 8 Mtr. | Astaranga | 5x15 Mtr | 1 | | | |
| | | | Gandakula | 5x15 Mtr | 1 | Only passenger launches operating | N.A. | |
| | Baitarani River | 3 to 8 Mtr. | Chandabali | 5x15 Mtr | 1 | | | |
| | | | Nalitapatia | 5x15 Mtr | 1 | | | |
| | | | Chradia | 5x15 Mtr | 1 | | | |
| | Dhamara | 3 to 10 Mtr. | Dhamara | 5x15 Mtr | 1 | | | |
| | | | Kaninali | 5x15 Mtr | 1 | | | |
| | | | Talchua | 5x15 Mtr | 1 | | | |
| 5 | TAMILNADU | | | | | | | |
| | Periyar Lake in Kerala (Under lease in Tamil Nadu) | 41.46 meters | Thekkady | Vessel 1 (kannagi) Length-8.5m Breadth-3m Depth-1.4m | - | - | - | - |
| | | | | Vessel 2(Jalarathna) Length-11.5m Breadth-2.4m Depth-1.6m | - | - | - | - |

Table No. 1.3

Infrastructure Facilities Available on State Waterways (As on 31.3.2023)

| 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 | | | | | | | |
| | Nil | Nil | Nil | Nil | Nil | Nil | Nil | Nil |
| 7 | Nagaland | | | | | | | 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 | Nil | Nil | Nil |
| | | 3.0 M | Irrigation Division,Alappuzha | | | | | |
| | Vembanattukayal | 3 to 6 M | Vaikom Terminal | Barrage (250/metric ton) | 2 | - | 3800 Sq | Managed by Inland Waterway Authority of India |
| | | 2 to 4 | Kottayam Terminal | | - | - | 40000/sq/feet | Managed by Kottayam Port & Container Terminal Service Pvt. Ltd. |
| | - | - | Irrigation Division, Ernakulam | Nil | Nil | Nil | Nil | Nil |
| | - | - | 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 |
| | - | - | Inland Navigation Division, Kollam | Nil | Nil | Nil | Nil | Nil |
| | | 2.2 | Inland Navigation Division, Kannur | Nil | Nil | Nil | Nil | Waterways under construction |
| | - | - | State Water Transport Department, Alappuzha | Nil | Nil | Nil | Nil | Nil |

Table No. 1.3

Infrastructure Facilities Available on State Waterways (As on 31.3.2023)

| Sl. No. | Navigational Channel | Depth (Meters) | Availability and Capacity of Terminals | | | | | |
|---------|----------------------|----------------|--|--|---------------|--|---|---------|
| | | | 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 | Remarks |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

9 Uttar Pradesh

| | | | | | | | |
|---------|---|-----------------------|---|---|----------------------------------|---|--|
| 140 Km. | 6 | MMT Ramnagar Terminal | Swami Vivekanand (200 Seats) M.V.Sam Manekshaw (200 Seats) | 1 | 2 LIEGHBER Crane (65 Tonn) | - | 2 No. of Lighbuour Crane with an attachment of Spreader and grabe attachment |
|---------|---|-----------------------|---|---|----------------------------------|---|--|

10 West Bengal

In the State Waterways there are no such terminals or berths till date. The entire cargo discharging are carried out inside the the port of Kolkata and Haldia.

Source : State Govts.

* Information for the year 2022-23 has not received. Previous Year data has been Repeated

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) | | | |
|--------|---|----------------|---------------------------|---------------|----------------|----------------|---------------------|-----------------|-----------------|-----------------|
| | | | 2019-20 | 2020-21 | 2021-22 | 2022-23 | 2019-20 | 2020-21 | 2021-22 | 2022-23 |
| 1 | 2 | 3 | 5 | 6 | 7 | 7 | 9 | 10 | 11 | 11 |
| 1 | National Waterway No. I (Allahabad-Haldia stretch of Ganga – Bhagirathi – Hooghly river system) | 1620.00 | 91.12 | 92.06 | 109.28 | 131.70 | 46240.00 | 23309.40 | 20082.07 | 18703.99 |
| 2 | National Waterway No. II (Sadiya-Dhubri stretch of Brahmaputra River system) | 891.00 | 3.93 | 3.07 | 4.28 | 6.30 | 100.00 | 44.90 | 74.38 | 106.67 |
| 3 | National Waterway No. III (Kollam-Kottapuram stretch of West Coast Canal along with Champakara Canal and Udyogmandal Canal) | 205.00 | 5.46 | 7.38 | 16.95 | 32.28 | 100.00 | 214.80 | 179.19 | 213.19 |
| 4 | National Waterway No. IV (Kakinada-Pudducherry stretch)* | 2890.00 | 0.82 | 68.32 | 112.34 | 84.18 | 0.00 | 189.90 | 316.47 | 295.22 |
| | Sub Total NWs | 5606.00 | 101.33 | 170.83 | 242.85 | 254.46 | 46440.00 | 23759.00 | 20652.11 | 19319.08 |
| 5 | Goa Waterways | 202.00 | 29.33 | 84.61 | 45.78 | 29.29 | 1467.00 | 4124.40 | 2155.39 | 1587.47 |
| 6 | Maharashtra Waterways | 453.00 | 243.93 | 282.10 | 436.06 | 631.49 | 13172.00 | 5697.00 | 1592.35 | 8177.97 |
| 7 | Gujarat Waterways | | 310.15 | 257.12 | 293.67 | 276.57 | 4652 | 4413 | 3117.61 | 3163.83 |
| 8 | Sunderban Waterways | 172 | 34.61 | 38.61 | 61.03 | 54.73 | 5988 | 6558.7 | 10160.54 | 9202.31 |
| 9 | Ichhamati +others | | | 2.84 | 8.54 | 14.97 | | | 716.17 | 538.30 |
| | Grand Total | 6433.00 | 719.35 | 836.11 | 1087.93 | 1261.51 | 71719.00 | 44552.10 | 38394.17 | 41988.96 |

Table No. 2.2

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

| Sl. No. | River/Stretch | Approximate Distance (Kms) | 2022-23 | Cargo generally moved |
|----------|---|----------------------------|--------------------|--|
| 1 | 2 | 3 | 4 | 5 |
| A | VIVADA IWL | | | |
| 1 | Haldia-Kolkata | 105 | 1,74,000.00 | FO & HSD |
| 2 | Haldia-Kolkata | 105 | 77,000.00 | LUBE/HSD |
| | Sub Total (A) | | 2,51,000.00 | |
| B | ICSL(Inland & Coastel Shipping Limited) | | | |
| 1 | MMT Varanasi - Gaighat (Patna) | 353.00 | 39.82 | Cattle food |
| 2 | IWT Terminal Gaighat-Kolkata | 815.00 | 128.67 | Broken Rice |
| 3 | Kolkata-IWT Terminal Gaighat | 815.00 | 101.17 | Food Grains, Edible Oil in containers |
| | Sub Total (B) | | 269.66 | |
| C | OTHER PRIVATE OPERATORS | | | |
| 1 | M/s PSP Project Pvt. Ltd. | | | |
| 1 | MMT Varanasi to Lalita Ghat, Varanasi | 7.50 | 397.00 | Sand stone |
| 2 | TIRUPATI VESSEL (P) LTD. | | | |
| 1 | Budge- Budge(Kol)- Khulna | 497 | 8,550.00 | Flyash |
| 2 | Budge- Budge Narayanganj | 884 | 2,12,532.00 | Flyash |
| 3 | IWAI Haldia Jetty-Khulna | 439 | 8,834.00 | Flyash |
| 4 | IWAI Haldia Jetty-Narayanganj | 826 | 1,32,891.00 | Flyash |
| 3 | M/s J.M. Baxi Heavy Pvt. Ltd., Kolkata | | | |
| 1 | Kolkata to Buxar | 984 | 379.00 | Generator Stator |
| 4 | M/s Total Movements Pvt. Ltd., Kolkata | | | |
| 1 | Kolkata to Simaria | 713 | 703.50 | 1 no. 1st diesel HDT reactor and 1 no. 2nd diesel HDT reactor |
| 5 | M/s Deurgo Projects (India) Pvt. Ltd. Mumbai | | | |
| 1 | Diamond Harbour to Semaria, Barauni (Bihar) | 713 | 384.30 | 1no. Reactor |
| 6 | M/s Prism Logistics Pvt. Ltd., Kolkata | | | |
| 1 | Kolkata to Buxar | 984 | 379.00 | Generator Stator |
| 7 | Rivering Shipping & Logistics | | | |
| 1 | IWAI Haldia Jetty-Khulna | 439 | 1,417.00 | Flyash |
| 2 | IWAI Haldia Jetty-Pangaon | 842 | 1,796.00 | Flyash |
| 3 | Budge- Budge (Kol)- Khulna | 497 | 35,015.00 | Flyash |
| 4 | Budge Budge-Naryanganj | 884 | 1,37,089.00 | Flyash |
| 5 | TT Shed-Narayanganj | 910 | 84,516.28 | Flyash |
| 6 | IWAI Haldia Jetty-Narayanganj | 826 | 3,62,654.00 | Flyash |
| 7 | IWAI BISN Jetty-Khulna | 522 | 702.00 | Flyash |
| 8 | IWAI BISN Jetty-Narayanganj | 909 | 1,768.00 | Flyash |
| 9 | GR Jetty II- Khulna | 522 | 4,222.00 | Flyash / Stone Aggregates |
| 10 | HDC Fly Ash Jetty Haldia-Narayanganj | 826 | 26,255.00 | |
| 11 | GR Jetty II- Narayanganj | 909 | 1,11,553.60 | Flyash / Crushed Stone / Thermal Coal / Indian Coal |
| 12 | GR Jetty II - Mongla | 509 | 2,965.75 | Rice, De Oiled Rice Bran Extraction, Fly Ash, Stone Chips, HR Steel Plates |

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

Table No. 2.2

| Sl. No. | River/Stretch | Approximate Distance (Kms) | 2022-23 | Cargo generally moved |
|----------|---------------------------------|----------------------------|-------------|---|
| 1 | 2 | 3 | 4 | 5 |
| 13 | IWAI BTPS Jetty-2 - Narayanganj | 964 | 1,61,790.00 | Flyash |
| 14 | IWAI BTPS-Mongla | 564 | 1,125.00 | Stone boulders |
| 15 | HDC, Haldia - Mongla | 426 | 3,755.65 | Coal / Naptha |
| 16 | K P Dock- Mongla | 510 | 54,667.28 | 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 |
| 17 | K P Dock- Khulna | 523 | 2,921.90 | Rice / Stone Chips |
| 18 | K P Dock- Narayanganj | 910 | 2,11,953.85 | Rice / Coal / Project Cargo / Quartzite Powder & Silico Manganese / Sponge Iron & Wire Rod / RED SEED / Wheat / Maize / Red Lentils in Bags / Wheat Bran |
| 19 | N. S. Dock, Kolkata - Mongla | 510 | 60.00 | Crane Body & Hydraulic Crane (ODC), 5TPH Pre-Crushing Grinding & Coating Plant |
| 20 | N. S. Dock, Kolkata -Khulna | 523 | 3,984.20 | Stone Aggregates |
| 8 | KANISHKA SHIPPING LINES | | | |
| 1 | Budge Budge-Narayanganj | 884 | 31,174.00 | Flyash |
| 2 | IWAI Haldia Jetty - Pangaon | 842 | 41,874.00 | Flyash |
| 3 | T.T.Shed-Narayanganj | 910 | 16,973.00 | Flyash |
| 4 | IWAI BISN Jetty-Narayanganj | 895/909 | 1,865.00 | Flyash |
| 5 | IWAI Haldia Jetty-Khulna | 439 | 11,530.00 | Flyash |
| 6 | IWAI Haldia Jetty - Narayanganj | 826 | 1,92,944.00 | Flyash |
| 7 | IWAI BTPS-Khulna | 577 | 5,374.00 | Flyash |
| 8 | HDC Fly Ash Jetty-Narayanganj | 826 | 15,665.00 | Flyash |
| 9 | T. T.Shed-Khulna | 523 | 1,159.00 | Flyash |
| 10 | KPD-Mongla | 510 | 921.30 | Machinery, Steel Cargo, Steam Turbine Associated / Wheat / Rice |
| 11 | Budge Budge-Khulna | 497 | 5,588.00 | Flyash |
| 12 | GR Jetty 2- Narayanganj | 909 | 39,426.00 | Flyash / Stone Aggregates |
| 13 | GR Jetty II- Khulna | 522 | 2,125.00 | Flyash / Rice |
| 14 | KPD- Narayanganj | 910 | 20,087.86 | Wire Rod Coil / Wheat / Rice |
| 15 | KPD-Khulna | 523 | 4,269.95 | Rice / Wheat |
| 16 | IWAI BTPS-Narayanganj | 964 | 31,491.00 | Flyash |
| 17 | Budge Budge-Pangaon | 900 | 8,796.00 | Flyash |
| 18 | GR Jetty 2- Pangaon | 925 | 874.00 | Flyash |
| 19 | HDC Fly Ash Jetty-Pangaon | 842 | 5,660.00 | Flyash |
| 20 | IWAI BISN Jetty-Pangaon | 925 | 1,191.00 | Flyash |
| 21 | IWAI BTPS--Pangaon | 980 | 18,863.00 | Flyash |
| 22 | KPD, Kolkata - Pangaon | 923 | 2,978.02 | Rice / Wheat / Wheat & Sponge Iron in container |
| 23 | T.T. Shed - Pangaon | 926 | 2,226.00 | Flyash |

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

Table No. 2.2

| Sl. No. | River/Stretch | Approximate Distance (Kms) | 2022-23 | Cargo generally moved |
|-----------|--|----------------------------|-------------|---|
| 1 | 2 | 3 | 4 | 5 |
| 9 | C. Day & Brothers | | | |
| 1 | Budge Budge-Narayanganj | 884 | 1,912.00 | Flyash |
| 2 | IWAI BISN Jetty-Narayanganj | 909 | 1,341.00 | Flyash |
| 3 | IWAI Haldia Jetty-Narayanganj | 826 | 76,603.00 | Flyash |
| 4 | GR Jetty II- Narayanganj | 909 | 2,095.00 | Rice / Flyash |
| 7 | KPD, Kolkata - Narayanganj | 910 | 1,689.40 | Fly Ash / Wheat / Maize |
| 9 | KPD, Kolkata - Mongla | 510 | 795.94 | Rice/Project Cargo+ |
| 10 | Neli | | | |
| 1 | IWAI Haldia Jetty-Narayanganj | 826 | 10,509.00 | Flyash |
| 2 | IWAI BISN Jetty-Narayanganj | 909 | 21,916.00 | Flyash |
| 3 | T.T. Shed - Narayanganj | 910 | 20,568.00 | Flyash |
| 12 | GR Jetty II- Narayanganj | 909 | 3,915.00 | Flyash |
| 14 | IWAI BISN Jetty-Pangaon | 925 | 5,674.00 | Flyash |
| 15 | IWAI Haldia Jetty-Pangaon | 842 | 4,166.00 | Flyash |
| 16 | T.T. Shed - Pangaon | 926 | 1,115.00 | Flyash |
| 11 | Ajbela Navigation | | | |
| 1 | T.T.Shed-Narayanganj | 910 | 15,538.98 | Flyash |
| 2 | T.T.Shed-Khulna | 523 | 954.00 | Flyash |
| 3 | HDC Fly Ash Jetty-Narayanganj | 826 | 11,842.00 | Flyash |
| 4 | Budge Budge-Narayanganj | 884 | 57,011.00 | Flyash |
| 5 | Budge Budge-Khulna | 497 | 21,517.00 | Flyash |
| 6 | Budge Budge-Pangaon | 900 | 1,370.00 | Flyash |
| 7 | IWAI Haldia Jetty-Mongla | 426 | 1,346.00 | Flyash |
| 8 | IWAI Haldia Jetty-Khulna | 439 | 1,686.00 | Flyash |
| 9 | IWAI Haldia Jetty-Narayanganj | 836/826 | 1,69,815.00 | Flyash |
| 10 | IWAI BISN Jetty - Narayanganj | 909 | 3,009.00 | Flyash |
| 11 | GR Jetty II - Narayanganj | 909 | 18,294.00 | Flyash |
| 12 | GR Jetty II - Mongla | 509 | 5,626.34 | Rice / Flyash / Stone Chips/Rapseed Extraction (DORB)/Maize/Soyabean Extraction |
| 13 | GR Jetty II - Khulna | 522 | 710.00 | Flyash |
| 14 | HDC Fly Ash Jetty-Khulna | 439 | 715.00 | Flyash |
| 15 | GR Jetty II - Pangaon | 925 | 1,048.00 | Flyash |
| 16 | IWAI BISN Jetty - Khulna | 522 | 2,164.00 | Flyash |
| 17 | IWAI BTPS Jetty-2, Tribeni - Narayanganj | 964 | 91,367.00 | Fly ash |
| 18 | KPD, Kolkata - Narayanganj | 910 | 86,873.41 | Fly Ash / Sponge Iron / Wheat / Coal / DORB Extraction / Raw Cotton/Maize |
| 19 | KPD, Kolkata - Mongla | 510 | 77,861.91 | 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/Project Cargo & +Container |

Table No. 2.2

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

| Sl. No. | River/Stretch | Approximate Distance (Kms) | 2022-23 | Cargo generally moved |
|-----------|--|----------------------------|-------------|--|
| 1 | 2 | 3 | 4 | 5 |
| 20 | KPD, Kolkata - Pangaon | 923 | 1,967.86 | Wheat/Insulators, Cooling Towers, Parts and Accessories of Two Wheeler, Ferro Silico Manganese & Auto Mobile Parts/ Boiled Atap Rice |
| 21 | Haldia Dock Complex - Mongla | 426 | 3,696.97 | PrimeMild Steel Non Alloy Wire Rod in coil |
| 22 | Haldia Dock Complex - Narayanganj | 826 | 1,579.54 | Wire Rod |
| 23 | HDC Fly Ash Jetty-Pangaon | 842 | 1,195.00 | Flyash |
| 24 | Putimary Jetty - Mongla | 894 | 2,000.00 | Crushed Stone |
| 12 | J.D.Shipping | | | |
| 1 | Budge Budge-Narayanganj | 884 | 21,480.00 | Flyash |
| 2 | Sri Ram Jetty(Kol) - Narayanganj | | | |
| 3 | Sri Ram Jetty(Kol) - Khulna | | | |
| 4 | Sri Ram Jetty(Kol) - Mongla | | | |
| 5 | IWAI Haldia Jetty - Narayanganj | 826 | 1,07,491.00 | Flyash |
| 6 | KP Dock - Narayanganj | 910 | 6,792.51 | Machinery / Rice |
| 7 | KP Dock - Khulna | 523 | 3,971.75 | Steel plate / Rice |
| 8 | T.T. Shed - Narayanganj | 910 | 8,219.00 | Flyash |
| 9 | HDC Fly Ash Jetty-Narayanganj | 826 | 23,009.00 | Flyash |
| 10 | G.R. Jetty II - Narayanganj | 909 | 5,533.00 | Flyash |
| 11 | IWAI BTPS Jetty-2, Tribeni - Narayanganj | 964 | 625.00 | Fly ash |
| 13 | Safehand Logistics | | | |
| 1 | IWAI BISN Jetty - Khulna | 522 | 1,102.00 | Fly Ash |
| 14 | Shun Shing India Private Ltd. | | | |
| 1 | Budge Budge - Narayanganj | 884 | 11,800.00 | Flyash |
| 2 | Budge Budge - khulna | 497 | 55,464.00 | Flyash |
| 15 | K K Shipping | | | |
| 1 | T.T. Shed - Narayanganj | 910 | 66,687.00 | Flyash |
| 2 | IWAI Haldia Jetty - Narayanganj | 826 | 38,478.00 | Flyash |
| 3 | IWAI BISN Jetty - Narayanganj | 909 | 46,922.00 | Flyash |
| 4 | IWAI BISN Jetty- Khulna | 522 | 6,488.00 | Flyash |
| 5 | T.T.Shed-Khulna | 523 | 7,099.00 | Flyash |
| 6 | IWAI Haldia Jetty - Khulna | 439 | 7,654.00 | Flyash |
| 7 | IWAI BTPS Jetty-2, Tribeni - Narayanganj | 964 | 2,069.00 | Flyash |
| 8 | IWAI Haldia Jetty - Pangaon | 842 | 2,121.00 | Flyash |
| 9 | T.T.Shed-Pangaon | 926 | 3,628.00 | Flyash |
| 16 | Tetron Merchandise | | | |
| 1 | Budge Budge - Khulna | 497 | 8,454.00 | Flyash |
| 2 | IWAI BTPS Jetty-2, Tribeni - Khulna | 577 | 74,145.00 | Fly ash |
| 17 | M/s. Spring Professional Services Pvt. Ltd. | | | |
| 1 | Sahibganj to Haldia | 583 | 85.00 | Stone Chips |
| 18 | Rain Maker | | | |
| 1 | IWAI Haldia Jetty- Narayanganj | 826 | 1,43,254.00 | Flyash |

Table No. 2.2

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

| Sl. No. | River/Stretch | Approximate Distance (Kms) | 2022-23 | Cargo generally moved |
|-----------|---|----------------------------|-----------|--|
| 1 | 2 | 3 | 4 | 5 |
| 2 | Budge Budge- Narayanganj | 884 | 28,088.00 | Flyash |
| 3 | G.R.Jetty 2- Narayanganj | 909 | 39,473.60 | Flyash |
| 4 | IWAI BISN Jetty- Narayanganj | 909 | 11,635.00 | Flyash |
| 5 | Budge Budge- Khulna | 497 | 1,622.00 | Flyash |
| 6 | T.T. Shed - Khulna | 523 | 890.00 | Flyash |
| 7 | HDC Fly Ash Jetty- Narayanganj | 826 | 13,486.00 | Flyash |
| 8 | T.T. Shed - Narayanganj | 910 | 8,850.00 | Flyash |
| 9 | GR Jetty2- Khulna | 522 | 3,901.00 | Fly ash |
| 10 | IWAI BTPS Jetty-2, Tribeni - Narayanganj | 964 | 2,566.00 | Flyash |
| 11 | KPD Kolkata- Narayanganj | 910 | 24,825.92 | Rice / Sponge Iron / Wheat |
| 12 | Budge Budge - Pangaon | 900 | 4,876.00 | Fly Ash |
| 13 | HDC Fly Ash Jetty, Haldia - Pangaon | 861 | 1,497.00 | Fly Ash |
| 14 | IWAI BISN Jetty - Pangaon | 925 | 3,365.00 | Fly Ash |
| 15 | IWAI BTPS Jetty-2 - Pangaon | 977 | 3,805.00 | Fly Ash |
| 16 | IWAI Haldia Jetty, Haldia - Pangaon | 861 | 27,632.00 | Fly Ash |
| 17 | KPD Kolkata- Khulna | 523 | 3,089.36 | Wheat / Rice |
| 18 | KPD, Kolkata - Pangaon | 923 | 923.28 | Rice |
| 19 | Mongla-KPD Kolkata | 510 | 910.91 | Loaded with Crane , Dismantled and SOC Containers) |
| 20 | NSD, Kolkata - Narayanganj | 910 | 1,481.72 | Rice |
| 21 | T.T. Shed - Pangaon | 923 | 1,147.00 | Fly Ash |
| 19 | M/s. Vinayak Shipping* | | | |
| 1 | Budge Budge- Narayanganj | 884 | 32,305.00 | Fly Ash |
| 2 | Budge Budge - Khulna | 497 | 12,922.00 | Fly Ash |
| 3 | T.T. Shed - Narayanganj | 910 | 1,230.00 | Fly Ash |
| 4 | T.T. Shed - Khulna | 523 | 776.00 | Fly Ash |
| 5 | IWAI Haldia jetty-Narayanganj | 826 | 58,722.00 | Fly Ash |
| 6 | IWAI Haldia Jetty - Khulna | 439 | 16,818.00 | Fly Ash |
| 7 | G.R. Jetty-2 - Narayanganj | 909 | 7,011.24 | Fly Ash / Wheat & Rice |
| 8 | GR Jetty2- Khulna | 522 | 929.00 | Fly Ash |
| 9 | IWAI BTPS Jetty-2, Tribeni - Khulna | 577 | 30,978.00 | Fly Ash |
| 10 | IWAI BTPS Jetty-2, Tribeni - Narayanganj | 964 | 63,660.00 | Fly Ash |
| 11 | HDC Fly Ash Jetty- Narayanganj | 826 | 762.00 | Flyash |
| 20 | Assetment Marine & Traders Pvt. Ltd. | | | |
| 1 | IWAI Haldia jetty- Narayanganj | 826 | 8,164.00 | Fly Ash |
| 2 | IWAI BISN Jetty - Narayanganj | 909 | 3,539.00 | Fly Ash |
| 3 | T.T. Shed - Narayanganj | 910 | 9,526.00 | Fly Ash |
| 4 | HDC, Haldia - Narayanganj | 826 | 3,901.41 | Prime Mild Steel Non Alloy Wire Rod in coil |
| 5 | KPD Kolkata-Narayanganj | 910 | 499.99 | Sponge Iron |
| 21 | M/s. Fortune Transport | | | |
| 1 | Budge Budge- Narayanganj | 884 | 31,128.00 | Fly Ash |
| 2 | G.R. Jetty-2- Narayanganj | 909 | 2,482.00 | Fly Ash |
| 3 | IWAI Haldia Jetty - Narayanganj | 826 | 15,405.00 | Fly Ash |

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

Table No. 2.2

| Sl. No. | River/Stretch | Approximate Distance (Kms) | 2022-23 | Cargo generally moved |
|-----------|---|----------------------------|-------------|--|
| 1 | 2 | 3 | 4 | 5 |
| 22 | M/s. IA3 Enterprise | | | |
| 1 | Budge Budge-Narayanganj | 884 | 48,837.00 | Fly Ash |
| 2 | G.R. Jetty-2-Narayanganj | 909 | 4,968.34 | Fly Ash/Wheat/Quartzite Powder |
| 3 | HDC Fly Ash Jetty, Haldia-Narayanganj | 826 | 1,024.00 | Fly Ash |
| 4 | IWAI Haldia Jetty-Narayanganj | 826 | 80,029.00 | Fly Ash |
| 5 | T.T. Shed-Narayanganj | 910 | 994.00 | Fly Ash |
| 6 | KPD Kolkata-Narayanganj | 910 | 15,740.53 | |
| 7 | Budge Budge- Khulna | 497 | 2,136.00 | |
| 8 | G.R. Jetty-2-Khulna | 522 | 978.00 | Fly Ash |
| 9 | G.R. Jetty-2-Mongla | 509 | 4,637.00 | Fly Ash/Maize |
| 10 | IWAI BTPS Jetty-2, Tribeni - Narayanganj | 964 | 5,259.00 | Fly ash |
| 11 | T.T. Shed-Khulna | 523 | 1,350.00 | Stone Chips |
| 23 | M/s. Intel International Logistics | | | |
| 1 | BTPS Jetty, Tribeni-Khulna | 577 | 671.00 | Fly Ash |
| 2 | G.R. Jetty-2-Khulna | 522 | 4,466.00 | Fly Ash |
| 3 | Budge Budge - Khulna | 497 | 580.00 | Fly Ash |
| 4 | KPD Kolkata-Khulna | 523 | 3,719.59 | Maize / Rice / Wheat / Indian Coal |
| 5 | KPD Kolkata-Mongla | 510 | 2,492.30 | Rice / Wheat / Indian Coal / Maize / Stone Chips / Aggregates |
| 6 | KPD Kolkata-Narayanganj | 910 | 1,21,085.98 | Maize / Wheat / Rice / Sponge Iron / Raw Cotton / Steam Coal / Stone |
| 7 | G.R. Jetty-2-Mongla | 509 | 1,244.00 | Wheat / Rice / Fly Ash |
| 8 | Budge Budge-Narayanganj | 884 | 63,911.00 | Fly Ash |
| 9 | Budge Budge-Mongla | 484 | 718.00 | Fly Ash |
| 10 | BTPS Jetty, Tribeni-Narayanganj | 964 | 42,099.00 | Fly Ash |
| 11 | IWAI BISN Jetty- Narayanganj | 909 | 1,846.00 | Fly Ash |
| 12 | IWAI Haldia Jetty-Narayanganj | 826 | 1,27,710.00 | Fly Ash |
| 13 | HDC Fly Ash Jetty, Haldia-Narayanganj | 826 | 11,874.00 | Fly Ash |
| 14 | T.T. Shed-Narayanganj | 910 | 12,946.50 | Fly Ash |
| 15 | T.T. Shed - Khulna | 523 | 968.00 | Fly Ash |
| 16 | G.R. Jetty-2 - Narayanganj | 910 | 1,12,451.00 | Stone Chips / Fly Ash / Rice / Prime Mild Steel Alloy Hot Rolled |
| 24 | M/s. Ishan Enterprise | | | |
| 1 | Budge Budge-Narayanganj | 884 | 15,883.00 | Fly Ash |
| 2 | G.R. Jetty-2-Narayanganj | 909 | 748.00 | Fly Ash |
| 3 | IWAI BISN Jetty-Narayanganj | 909 | 639.00 | Fly Ash |
| 4 | IWAI Haldia Jetty-Narayanganj | 826 | 10,419.00 | Fly Ash |
| 5 | Budge Budge-Khulna | 497 | 2,938.00 | Fly Ash |
| 6 | IWAI Haldia Jetty-Khulna | 439 | 675.00 | Fly Ash |
| 25 | M/s. Tidal Marine Services | | | |
| 1 | Budge Budge - Khulna | 497 | 694.00 | Fly Ash |
| 2 | Budge Budge-Narayanganj | 884 | 7,250.00 | Fly Ash |
| 3 | IWAI Haldia Jetty-Narayanganj | 826 | 6,810.00 | Steam Coal |
| 4 | BTPS Jetty, Tribeni-Narayanganj | 964 | 1,821.00 | Fly Ash |

Table No. 2.2

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

| Sl. No. | River/Stretch | Approximate Distance (Kms) | 2022-23 | Cargo generally moved |
|-----------|--|----------------------------|-------------|---|
| 1 | 2 | 3 | 4 | 5 |
| 26 | Inflow Waterways | | | |
| 1 | Budge Budge - Khulna | 497 | 21,833.00 | Fly Ash |
| 2 | Budge Budge - Narayanganj | 884 | 1,42,103.00 | Fly Ash |
| 3 | G.R. Jetty-2 - Khulna | 522 | 725.00 | Fly Ash |
| 4 | G.R. Jetty-2 - Narayanganj | 909 | 23,525.00 | Fly Ash |
| 5 | HDC Fly Ash Jetty, Haldia - Narayanganj | 826 | 63,650.00 | Fly Ash |
| 6 | IWAI Haldia Jetty - Narayanganj | 826 | 41,142.00 | Fly Ash |
| 7 | T.T. Shed - Narayanganj | 910 | 7,060.62 | Fly Ash |
| 8 | KPD Kolkata-Khulna | 523 | 1,978.35 | Non Basmati Parboiled Rice |
| 9 | KPD Kolkata-Mongla | 510 | 7,021.12 | Rice/Project Cargo/Galvanized transmission Line Tower Parts/Lattice |
| 10 | KPD Kolkata-Narayanganj | 910 | 1,001.12 | Wheat/Rice |
| 11 | Mongla, Bangladesh - N. S. Dock, Kolkata | 510 | 135.92 | Crane & Machinery Parts (ODC) |
| 12 | Budge Budge - Mongla | 484 | 1,434.00 | Fly Ash |
| 13 | Budge Budge - Pangaon | 900 | 2,318.00 | Fly Ash |
| 14 | G.R. Jetty-2 - Pangaon | 925 | 1,190.00 | Fly Ash |
| 15 | HDC Fly Ash Jetty, Haldia - Pangaon | 861 | 861.00 | Fly Ash |
| 16 | Mongla-KPD Kolkata | 510 | 537.73 | Railways Rails of Iron or Steel to UIC 60KG Heat Treated Rails Steel |
| 17 | Mongla-N. S. Dock, Kolkata | 510 | 394.35 | Crane & Machinery Parts |
| 27 | M/s. Everett (India) Pvt. Ltd. | | | |
| 1 | KPD Kolkata-Narayanganj | 910 | 5,287.00 | Rice / Wheat / Cotton Belles |
| 2 | HDC Haldia-Mongla | 426 | 1,964.18 | Iron Non Alloy Steel / Prime Hot Rolled Steel Coil |
| 3 | HDC Haldia-Narayanganj | 826 | 3,681.09 | Hot Roll Steel Coil / Prime Hot Rolled Non Alloy Steel Plate |
| 4 | IWAI BTPS Jetty-2, Tribeni - Narayanganj | 964 | 2,690.00 | Fly Ash |
| 5 | KPD, Kolkata - Pangaon | 923 | 1,415.65 | Refined White Sugar in Containers |
| 6 | Mongla - KPD Kolkata | 510 | 756.89 | Parts of Cranes & Other Equipments |
| 28 | M/s. Jak Maritime & Logistics | | | |
| 1 | KPD Kolkata-Mongla | 510 | 1,572.57 | Rice / Crushed Stone |
| 29 | M/s. Roadwings International Pvt. Ltd. | | | |
| 1 | G.R. Jetty-2 - Narayanganj | 909 | 626.00 | Fly ash |
| 30 | ABC India Limited (Bharat Heavy Electricals Ltd.) | | | |
| 1 | Kolaghat - Mongla | 490 | 458.00 | Auto Transformer Tank & Generator Transformer Tank |
| 2 | Kolkata - Numaligarh Refinery Jetty, Assam | 1883 | 521.00 | DHT Reactor |
| 31 | Bollore Logistics India Limited | | | |
| 1 | Kolkata - Mongla | 510 | 347.89 | Glass Fiber Reinforced Plastic Products – GRP Chimney with Losse |
| 32 | M/s. One Shipping Agency | | | |
| 1 | Kolkata - Mongla | 510 | 111.50 | Re exportable Machinerics -(Hydraulic Piling Rig-Bae Machinery, Cement Silo & Fly ash silo) |
| 33 | Delta Logistics | | | |
| 1 | Budge Budge - Narayanganj | 884 | 10,711.00 | Fly Ash |

Table No. 2.2

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

| Sl. No. | River/Stretch | Approximate Distance (Kms) | 2022-23 | Cargo generally moved |
|-----------|--|----------------------------|-----------|---|
| 1 | 2 | 3 | 4 | 5 |
| 2 | G.R. Jetty-2 - Narayanganj | 909 | 1,360.00 | Fly Ash |
| 3 | IWAI BTPS Jetty-2, Tribeni -Narayanganj | 964 | 1,495.00 | Fly Ash |
| 4 | IWAI Haldia Jetty - Narayanganj | 826 | 5,613.00 | Fly Ash |
| 34 | Hindol Shipping | | | |
| 1 | Budge Budge - Narayanganj | 884 | 1,230.00 | Fly Ash |
| 35 | Meghnaditya Waterways Pvt. Ltd. | | | |
| 1 | Budge Budge - Narayanganj | 884 | 918.00 | Fly Ash |
| 2 | HDC Haldia-Ashuganj | 954 | 958.08 | TMT Bar |
| 3 | IWAI BTPS Jetty-2, Tribeni -Narayanganj | 964 | 5,689.00 | Fly Ash |
| 4 | IWAI Haldia Jetty - Narayanganj | 826 | 1,190.00 | Fly Ash |
| 36 | One Shipping Agency | | | |
| 1 | Budge Budge - Khulna | 497 | 758.00 | Fly Ash |
| 2 | Budge Budge - Narayanganj | 884 | 2,938.00 | Fly Ash |
| 3 | G.R. Jetty-2 - Narayanganj | 909 | 4,401.20 | Fly Ash |
| 4 | IWAI Haldia Jetty - Narayanganj | 826 | 2,241.00 | Fly Ash |
| 5 | Mongla - KPD Kolkata | 510 | 370.70 | Parts of Cranes & Other Equipments |
| 37 | Pacific Navigation | | | |
| 1 | BTPS Jetty, Tribeni-Khulna | 577 | 26,166.00 | Fly Ash |
| 2 | IWAI BTPS Jetty-2, Tribeni -Narayanganj | 964 | 1,759.00 | Fly Ash |
| 38 | Sealine Shipping & Logistics | | | |
| 1 | Budge Budge - Khulna | 497 | 3,933.00 | Fly Ash |
| 2 | Budge Budge - Narayanganj | 884 | 781.00 | Fly Ash |
| 3 | G.R. Jetty-2 - Khulna | 522 | 1,710.00 | Fly Ash |
| 4 | G.R. Jetty-2-Mongla | 509 | 1,082.00 | Fly Ash |
| 5 | G.R. Jetty-2 - Narayanganj | 909 | 783.00 | Fly Ash |
| 39 | M/s. Bharat Heavy Electricals Limited (BHEL). | | | |
| 1 | Kolkata - Mongla | 510 | 212.56 | LP Bladed Rotor-1; LP Bladed Rotor-2; Generator Rotor |
| 40 | M/s. Deugro Projects (India) Pvt. Ltd. | | | |
| 1 | Kolkata - Kahalgaon | 550 | | Generator Stator |
| 2 | Kolkata - Mirzapur, UP | 1258 | | Ammonia Converter Pressure Shell |
| 3 | Diamond Harbour - Kahalgaon | 626 | 396.80 | Generator Stator |
| 4 | Diamond Harbour - Semaria | 789 | 384.30 | Reactor |

Table No. 2.2

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

| Sl. No. | River/Stretch | Approximate Distance (Kms) | 2022-23 | Cargo generally moved |
|----------|---|----------------------------|-----------------------|---|
| 1 | 2 | 3 | 4 | 5 |
| 41 | M/s. J. M. Baxi Heavy Pvt. Ltd., Kolkata | | | |
| 1 | Budge Budge - Buxar | 1009 | 379.00 | Generator Stator |
| 42 | M/s. Total Movements Private Limited, Kolkata | | | |
| 1 | Kolkata - Semaria | 713 | 703.50 | Diesel HDT Reactor & 2nd. Diesel HDT Reactor |
| 43 | M/s. Prism Logistics Pvt. Ltd. | | | |
| 1 | Kolkata - Buxar | 984 | 379.00 | Generator Stator |
| 44 | Eastern Navigation Pvt. Ltd. | | | |
| 1 | Haldia Oil Jetty-1 - Kolaghat | 77 | 460.00 | Generator (Excl. Rotor) |
| 45 | M/s. Nivriya India Pvt. Ltd. | | | |
| 1 | Puthimai Jetty - BTPS, Tribeni | 331.5 | 1,125.00 | Stone boulders |
| | Sub Total (C) | - | 50,46,279.85 | |
| D | KOPT | | | |
| 1 | Sagar- KPD | 146 | 14,20,000.00 | Iron Ore, Iron & Steel, Log, Pulses, sulphur, Lime stone, Machinery, Manganese Ore, Petroleum Coke, Rice & Wheat, Other Coke/Coal, Coking Coal, Pet Coke, Fertilizer, Sugar, Rock Phosphate, Propane, Butane, Timber, Met Coke, Other/Misc. |
| 3 | Diamond Harbour - KPD | 78 | 27,30,000.00 | Pulses, Iron & Steel, Iron Ore, Lime Stone, Manganese Ore, Thermal Coal, Other Coke/Coal, Coking Coal, Met Coke, Propane, Butane, Fertiliser, Rock Phosphate, Timber, Other/Misc |
| 3 | KPD- Sagar | 146 | 35,000.00 | Iron & Steel, Rice, Wheat |
| | Sub Total (D) | | 41,85,000.00 | |
| E | Unorganized Ro-Ro movements in West Bengal | 0.5 | 36,87,303.49 | Passengers and household goods |
| | Sub Total (E) | | 36,87,303.49 | |
| | Total (NW-I) (A+B+C+D+ E) | | 1,31,69,853.00 | |

Table No. 2.2

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

| Sl. No. | River/Stretch | Approximate Distance (Kms) | 2022-23 | Cargo generally moved |
|------------------|---|----------------------------|---------------------|--|
| 1 | 2 | 3 | 4 | 5 |
| A | M/s. Kataria Carriers | | | |
| 1 | Kolaghat (NW-86) - NTPC, Farakka (NW-1) | 499 | | 315 MVA Transformer |
| B | Movement of goods by Un-organized sector | | | |
| 1 | Mayachar - Kolaghat | 27 | 20,160.000 | Bricks |
| 2 | Mayachar - Bakshi | 39 | 10,800.000 | Bricks |
| 3 | Mayachar -Gopiganj | 45 | 12,600.000 | Bricks |
| 4 | Mayachar -Namkhana/Bakkhali | 77 | 21,672.000 | Bricks |
| 5 | Mayachar -Patharprotima | 106 | 14,400.000 | Bricks |
| 6 | Mayachar - Kachuberia | 63 | 2,880.000 | Bricks |
| 7 | Bakshi - Kolaghat | 12 | 5,316.000 | Sand |
| Sub Total | | | 87,828.00 | |
| A | Movement of goods by Un-organized sector | | | |
| 1 | Basirhat (NW-44) - Dayapur/Satjelia (NW-97) | 80 | 1,31,236.380 | Bricks / Stone chips / Sand (Red) / Cement |
| 2 | Basirhat (NW-44) - Pathankhali/Basanti/Gosaba (NW-97) | 80 | 2,29,265.930 | Bricks / Stone chips / Sand (Red) / Cement |
| 3 | Basirhat (NW-44) - Namkhana/Bakkhali (NW-97) | 185 | 31,860.000 | Bricks |
| 4 | Basirhat (NW-44) - Itinda Ghat (NW-44) | 2.5 | 67,648.320 | Sand (local River) |
| 5 | Dhaltitha (NW-44) - Itinda Ghat (NW-44) Cross Bank Movement | 0.3 | 2,535.370 | Motor cycles |
| Total | | | 4,62,546.000 | |

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

| | | | | |
|----------------------------|---------------------------|----|---------------|--|
| A | Organised Cargo | 32 | 165259.91 | |
| B | IWTD Assam | | | |
| C | Unorganised Sector | 20 | 464592.93 | |
| Total (NW-2)(A+B+C) | | | 629853 | |

Table No. 2.2

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

| Sl. No. | River/Stretch | Approximate Distance (Kms) | 2022-23 | Cargo generally moved |
|-----------|---|----------------------------|----------|--|
| 1 | 2 | 3 | 4 | 5 |
| A. | CHAMPAKARA CANAL | | | |
| 1 | KSINC | | | |
| 2 | Q10 Berth-CPT-Fact, CD | 21 | 64119 | Sulpher,Rock Phosphate,Phosphoric Acid |
| 2 | LOTS Shipping & Trading | | | |
| 1 | Q10 Berth-CPT-Fact, CD | 21 | 177196 | Phosphoric Acid,Sulphur,Rock Phosphate |
| 3 | Kerala Backwater Navigation | | | |
| 1 | FACT,PD- FACT, CD | 21 | 64448 | LAG |
| 2 | FACT , Ammonia jetty- FACT, PD(via mattancherry channel) | 22 | 2112 | LAG |
| 4 | FACT Ltd.* | | | |
| 1 | W. Island ammonia jetty to FACT(CD) | 22 | 3810 | LAG |
| 2 | FACT,PD- FACT, CD | 21 | 60036 | LAG |
| 5 | Tisha Navigation Inc. | | | |
| 1 | Kakanadu Terminal -Sea | 21 | 2011 | LIQUID EFFLUENT |
| 6 | COCHIN BUNKERS | | | |
| 1 | IRUMBANAM TO COCHIN PORT | 20 | | |
| 2 | BPCL jetty Irumbanam to COT | 18 | 456 | FUEL OIL |
| 3 | BPCL jetty Irumbanam to Q5 | 19.2 | 39 | FUEL OIL |
| 4 | BPCL jetty Irumbanam to Q6 | 19 | 79 | FUEL OIL |
| 5 | BPCL jetty Irumbanam to Q4 | 22.5 | 230 | FUEL OIL |
| 6 | BPCL jetty Irumbanam to CSL | 16 | 670 | FUEL OIL |
| 7 | BPCL jetty Irumbanam to NTB | 18 | 142 | FUEL OIL |
| 8 | BPCL jetty Irumbanam to NCB | 22.4 | 1,664 | FUEL OIL |
| 9 | BPCL jetty Irumbanam to OPL | 21 | 144 | FUEL OIL |
| 10 | BPCL jetty Irumbanam to Q7 | 19 | 191 | FUEL OIL |
| 11 | Irumbanam- Q 10 BERTH | | | |
| 12 | BPCL Irumbanam - BTP | 21.5 | 214 | VLSFO, Fuel Oil |
| 13 | Fact UD to Fact CD | 21 | 7,093 | Sulphuric acid |
| 14 | Q10 berth CPT to FACT CD | 21 | 69,203 | Phosphoric Acid |
| 15 | Q10 berth CPT to FACT UD(in Ch. Canal) | 21 | 7,097 | Sulphuric Acid |
| 16 | Cochin Port to FACT CD | 21 | 1,03,339 | Sulphuric acid |
| 17 | Kakkanad to OPL | 21 | 1,014 | Phosphoric Acid |
| 18 | BPCL jetty Irumbanam to Q1 | 23 | 669 | FUEL OIL |
| 19 | BPCL jetty Irumbanam to Q10 | 18 | 162 | FUEL OIL |
| 20 | BPCL jetty Irumbanam to IOC | 17.2 | 70 | FUEL OIL |
| 21 | BPCL jetty Irumbanam to Fine Arts Jetty | 17.2 | 1,239 | FUEL OIL |
| 22 | BPCL jetty Irumbanam to South Naval Jetty | 16 | 224 | FUEL OIL |
| 23 | Q10 to Q1 Berth | 5 | 100 | Sulphuric Acid |

Table No. 2.2

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

| Sl. No. | River/Stretch | Approximate Distance (Kms) | 2022-23 | Cargo generally moved |
|---------|-----------------------------------|----------------------------|-----------------|-----------------------|
| 1 | 2 | 3 | 4 | 5 |
| 7 | BHARAT CHEMICALS | | | |
| 1 | FINE ARTS JETTY TO OUTER SEA(OPL) | 4 | 20,341 | VLSFO, LSFO |
| 2 | FINE ARTS JETTY TO BERTH | 4 | 14,571 | VLSFO, LSFO |
| 8 | SHINY SHIPPING | | | |
| 1 | BTP to Ambajetty | 4.2 | 497 | LSHFHSD |
| 2 | BTP to CSL | 5.6 | 2,214 | LSHFHSD |
| 3 | BTP to Q8 | 2.8 | 685 | FO |
| 4 | BTP to Q10 | 3.2 | 4 | LSHFHSD |
| 5 | BTP to OPL | 2 | 2,686 | VLSFO,LSHFHSD,FO |
| 6 | BTP to Q6 | 3.7 | 311 | LSHFHSD |
| 7 | BTP to BTP | 0.015 | 615 | LSHFHSD |
| 8 | BTP - ICTT | 2 | | |
| 9 | NCB TO BTP | 1 | 428 | LSHFHSD, VLSFO |
| 10 | NCB TO Q6 | 2.9 | 100 | LSHFHSD, VLSFO |
| 11 | NCB to Q8 | 3.75 | 300 | LSHFHSD |
| 12 | NCB to Q10 berth | 4 | 100 | LSHFHSD |
| 13 | NCB to OPL/Outer Sea | 2 | 1,522 | VLSFO,LSHFHSD,FO |
| 14 | NCB to South Naval Jetty | 6 | 2,225 | LSHFHSD |
| 15 | NCB to CSL | 6 | 4,123 | VLSFO, LSHFHSD |
| 16 | NCB to Ambajetty | 5 | 423 | LSHFHSD |
| 17 | Q4 to COT | 4.3 | 248 | VLSFO |
| 18 | Q4 Berth to OPL | 2.5 | 946 | LSHFHSD, VLSFO |
| 19 | Q4 Berth to BTP | 1 | 346 | VLSFO |
| 20 | Q4 Berth to ICTT Vallarpadam | 2.3 | 1,761 | VLSFO |
| 21 | Q1 berth to South Naval Jetty | 6.5 | 454 | LSHFHSD |
| 22 | Q1 Berth to ICTT Vallarpadam | 3 | 1,264 | VLSFO |
| 23 | Q1 to Q6 | 3.8 | 246 | LSHFHSD |
| 24 | Q1 Berth to Q8 | 4.5 | 5 | LSHFHSD |
| 25 | Q1 to Q5 | 3.6 | 89 | VLSFO |
| 26 | Q1 Berth to BTP | 1.5 | 845 | VLSFO |
| 27 | Q1 Berth to OPL | 3 | 1,985 | VLSFO |
| 28 | Q1 Berth to COT | 5 | 846 | VLSFO, |
| 29 | Q1 to Q10 Berth | 5 | 287 | VLSFO, LSHFHSD |
| | Sub Total (A) | | 6,28,238 | |

Table No. 2.2 Details of Cargo Moved on National Waterways (National Waterway No.3) - WEST COAST CANAL, CHAMPAKARA CANAL & UDYOG MANDAL CANAL

| Sl. No. | River/Stretch | Approximate Distance (Kms) | 2022-23 | Cargo generally moved |
|-----------|---|----------------------------|-----------------|---|
| 1 | 2 | 3 | 4 | 5 |
| B. | UDYOGMANDAL CANAL | | | |
| 1 | LOTS Shipping & Trading* | | | |
| 1 | Q10 CPT-Fact, UD | 20 | 19,222 | Phosphoric Acid, Sulphur |
| 2 | KSINC* | | | |
| 1 | RO-RO SERVICE BETWEEN BOLGATTY TO WILLINGTON ISLAND | 3.7 | 10,55,710 | VARIOUS COMMODITIES IN CONTAINERS, CARS BIKES, TWO WHEELERS, LCV etc. |
| 2 | NTB , COT Berth Cochin port Bolgatty | 10 | 514 | Sludge Oil |
| 3 | ICTT - W.Island | | | |
| 3 | Kerala Back Water Navigation | | | |
| 1 | FACT Ammonia jetty, W. Island -FACT,PD | 14.5 | 64,448 | LAG |
| 4 | FAcT ammoniajetty W.island - FACT UD | 20 | 2,112 | LAG |
| 4 | Cochin Bunkers | | | |
| 1 | Fact UD to Cochin Port | 15 | 7,093 | Sulphuric Acid |
| 5 | FACT Ltd.* | | | |
| 1 | FAcT ammoniajetty W.island - FACT UD | 20 | 3,840 | LAG |
| 2 | FACT Ammonia jetty, W. Island -FACT,PD | 14.5 | 60,036 | LAG |
| | Sub Total (B) | | 1212975 | |
| C. | THE WEST COASTAL CANAL | | | |
| 1 | KMML Ltd. | | | |
| 1 | TCC - KMML | 133 | | |
| 2 | KMML Chavara East Bank- KMML Chavara | 0.03 | 4,25,340 | Sand |
| 3 | KMML Chavara East Bank- KMML Chavara | 0.03 | 1,49,792 | General Cargo |
| | Subtotal(West Coast Canal) | | 5,75,132 | |

Table No. 2.2

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

| Sl. No. | River/Stretch | Approximate Distance (Kms) | 2022-23 | Cargo generally moved |
|----------|--|----------------------------|-----------------|-----------------------|
| 1 | 2 | 3 | 4 | 5 |
| D | Passenger Cargo (NW-3) | | | |
| 1 | KMML Chavara East Bank -KMML Chavara | 0.03 | 4197.92 | Passenger |
| 2 | Ernakulam - Varappuzha | 13.5 | 5008.64 | Passenger |
| 3 | Ernakulam-Fortkochi | 3.5 | 97105.48 | Passenger |
| 4 | Ernakulam-Vypin | 3.5 | 29855.82 | Passenger |
| 5 | Ernakulam-Mulavukad | 3.5 | 6949.62 | Passenger |
| 6 | Alappuzha - Nedumudi | 14 | 9301.3 | Passenger |
| 7 | Alappuzha- Kainakari | 3.3 | 9358.16 | Passenger |
| 8 | Alappuzha -Kainakri Road | 3.3 | 7262.66 | Passenger |
| 9 | Alappuzha - Venattukadu | 2 | 9123.42 | Passenger |
| 10 | Alappuzha- Pathiramanal | 13 | 62248.88 | Passenger |
| 11 | Muhamma - Kumarakam | 6.8 | 10667.78 | Passenger |
| 12 | Muhamma -Maniyaparambu | 4.5 | 4738.48 | Passenger |
| 13 | Pulinkunnu-Alappuzha | 3 | 19546.6 | Passenger |
| 14 | Nedumudi-Alappuzha | 3.5 | 36276.64 | Passenger |
| 15 | Kollam-Plavara | 1.5 | 5032.4 | Passenger |
| 16 | Kollam-Pezhamthuruth | 6 | 6742.22 | Passenger |
| 17 | Kollam-Kureepuzha | 3 | 2072.42 | Passenger |
| 18 | Vaikom-Thavanakkadavu | 2.5 | 99506.94 | Passenger |
| 19 | Panavalli-South Paravoor | 4 | 23658.1 | Passenger |
| 20 | Panavalli-Poothotta | 2 | 46288.66 | Passenger |
| 21 | Panavalli-Perumpalam market | 2 | 31384.56 | Passenger |
| | Sub-total(passenger) | | 526326.7 | |
| E | Un-Organised Cargo (NW-3) | | | |
| 1 | Pullangadithodu-Nalluchira | 12.1 | 5120 | Rubble |
| 2 | Pullangadithodu-Nalluchira | 12.1 | 2650 | M-sand |
| 3 | Pullangadithodu-Nalluchira | 12.1 | 900 | Aggregate |
| 4 | Pullangadithodu-Nalluchira | 12.1 | 60 | Cement |
| 5 | Pallathuruth-Zero Jetty | 12.1 | 370 | Rubble |
| 6 | Pallathuruth-Zero Jetty | 12.1 | 80 | Aggregate |
| 7 | Pallathuruthy Jetty - Meerappattipadam | 1.1 | 355 | Rubble |
| 8 | Pallathuruthy Jetty - Meerappattipadam | 1.09 | 50 | Gravel |

Table No. 2.2

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

| Sl. No. | River/Stretch | Approximate Distance (Kms) | 2022-23 | Cargo generally moved |
|----------|---|----------------------------|------------------|-----------------------|
| 1 | 2 | 3 | 4 | 5 |
| 9 | Pallathuruthy Jetty - Meerappattipadam | 1.09 | 100 | |
| 10 | Pallathuruthy Jetty -Kannattipadam | 2.3 | 1145 | |
| 11 | Pallathuruthy Jetty -Kannattipadam | 2.3 | 1000 | Paddy |
| 12 | Pallathuruthy Jetty -Kannattipadam | 2.2 | 30 | M-sand |
| 13 | Karumadi - Mannappara | 3.5 | 35 | Rubble |
| | Sub-total(un-organised) | | 11895 | |
| F | Fish Cargo (NW-3) | | | |
| 1 | OPL-Munambam | 1.5 | 2254 | Fish |
| 2 | OPL-Munambam | 1.5 | 4154 | Fish |
| 3 | Kochi Sea Mouth-Thoppumpady Harbour | 4.8 | 6813 | Fish |
| 4 | Munambam Sea Mouth- Munambam Harbour | 1.5 | 14687 | Fish |
| 5 | Kochi Sea Mouth - Vypeen Harbour | 1 | 6665 | Fish |
| 6 | Kayamkulam Sea Mouth - Azheekkal Harbour | 0.05 | 5036 | Fish |
| 7 | Sea (Distance upto Sea Mouth) - Thoppumpady Harbour | 4.8 | 26955 | Fish |
| 8 | Sea (Distance upto Sea Mouth) - Munambam Harbour | 1.5 | 147207.2 | Fish |
| 9 | Sea (Distance upto Sea Mouth) - Vypeen Harbour | 1 | 37423 | Fish |
| 10 | Sea (Distance upto Sea Mouth) - Azheekkal Harbour | 0.05 | 22135 | Fish |
| | Sub-total(fish) | | 273329.2 | |
| | Total (NW-3) (A+B+C+D+E+F) | | 32,27,896 | |

Details of Cargo Moved on National Waterways (National Waterway No. 8)

Table No. 2.2

| Sl. No. | River/Stretch | Approximate Distance (Kms) | 2022-23 | Cargo generally moved |
|--------------------|--------------------------------------|----------------------------|--------------|-----------------------|
| 1 | 2 | 3 | 4 | 5 |
| A | UN-ORGANISED CARGO | | | |
| | Narakathara - Kozhichalchira | 1.2 | 60 | Cement |
| | Narakathara - Kozhichalchira | 1.2 | 1790 | Hollow Bricks |
| | Sub-total | | 1850 | |
| B | Passenger cargo | | | |
| | Alappuzha Boat Jetty - Kavalam | 13.3 | 23961.42 | Passenger |
| | Alappuzha Boat Jetty - Changanassery | 29 | 7877.58 | Passenger |
| | Sub Total | | 31839 | |
| Total(NW-8) | | | 33689 | |

Details of Cargo Moved on National Waterways (National Waterway No. 9)

| | | | | |
|--------------------|---------------------------------|-----|--------------|-----------|
| A | UN-ORGANISED CARGO | | | |
| 1 | Mangalassery - H Block | 9.5 | 260 | Sand |
| 2 | Mangalassery - H Block | 9.5 | 190 | Rubble |
| | Sub-total | | 450 | |
| B | Passenger cargo | | | |
| 1 | Alappuzha Boat Jetty - Kottayam | 25 | 5236.36 | Passenger |
| 2 | Kottayam -Alappuzha Boat Jetty | 25 | 11406.64 | Passenger |
| | Sub Total | | 16643 | |
| Total(NW-9) | | | 17093 | |

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 2023)

| 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 | Assam | 2021 | 0 | 0 | 159 | 6 | 165 | 15 | - | - | 76 | - | 91 | 256 |
| | | 2022 | 0 | 66 | 2 | 4 | 72 | 9 | 0 | 0 | 0 | 0 | 9 | 81 |
| | | 2023 | 0 | 66 | 2 | 4 | 72 | 9 | 0 | 0 | 0 | 0 | 9 | 81 |
| 2 | Bihar* | 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 |
| | | 2023 | 2 | 0 | 2 | 12 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 16 |
| 3 | Goa | 2021 | 83 | 146 | 12 | 23 | 264 | - | - | - | - | 1 | 1 | 265 |
| | | 2022 | 90 | 130 | 7 | 6 | 233 | 0 | 0 | 0 | 0 | 0 | 0 | 233 |
| | | 2023 | 57 | 172 | 18 | 6 | 253 | - | - | - | - | - | 0 | 253 |
| 4 | Karnataka | 2021 | - | 32 | 5 | - | 37 | - | - | - | - | - | 0 | 37 |
| | | 2022 | - | - | - | - | 0 | - | - | - | - | - | - | - |
| | | 2023 | - | 81 | 31 | - | 112 | 300 | - | - | - | - | 300 | 412 |
| 5 | Kerala | 2021 | 39 | 59 | 2 | 0 | 100 | 40 | - | - | 4546 | 332 | 4918 | 5018 |
| | | 2022 | 41 | 4 | 6 | 0 | 51 | 32 | 0 | 0 | 4802 | 363 | 5197 | 5248 |
| | | 2023 | 112 | 23 | 6 | 0 | 141 | 28 | 0 | 0 | 5130 | 593 | 5751 | 5892 |
| 6 | Maharashtra | 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 |
| | | 2023 | 175 | 1095 | 21 | 108 | 1399 | 62 | 4 | 33 | 0 | 5 | 104 | 1503 |
| 7 | Odisha* | 2021 | - | - | 73 | - | 73 | - | - | - | - | - | 0 | 73 |
| | | 2022 | - | - | 66 | - | 66 | - | - | - | - | - | 0 | 66 |
| | | 2023 | - | - | 66 | - | 66 | - | - | - | - | - | 0 | 66 |
| 8 | West Bengal | 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 |
| | | 2023 | 125 | 316 | 23 | 58 | 522 | 20 | 5 | 4 | Nil | Nil | 29 | 551 |
| 9 | Tamil Nadu | 2021 | - | - | - | - | - | - | - | - | - | - | - | - |
| | | 2022 | - | - | - | - | - | - | - | - | - | - | - | - |
| | | 2023 | - | - | - | - | - | - | - | - | 2 | - | 2 | 2 |
| 11 | Gujarat | 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 |
| | | 2023 | 114 | 23 | 0 | 80 | 217 | 41 | 8 | 0 | 8 | 12 | 69 | 286 |
| 12 | Jharkhand* | 2021 | - | - | - | - | 0 | 2 | - | - | - | - | 2 | 2 |
| | | 2022 | - | - | - | - | - | NA | - | - | - | - | - | - |
| | | 2023 | - | - | - | - | - | NA | - | - | - | - | - | - |
| 13 | Uttar Pradesh | 2023 | 0 | 0 | 0 | 0 | NA | 0 | 0 | 0 | 0 | NA | NA | NA |
| Grand Total | | 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 |
| | | 2023 | 585 | 1776 | 169 | 268 | 2798 | 460 | 17 | 37 | 5140 | 610 | 6264 | 9062 |

Source : State Governments

@@ Others includes country boats

* Information for the year 2022-23 has not received. Previous Year data has been Repeated

Table No. 3.2

Number of Passengers Carried By Inland Water Vessels
(Year Ending 31st March 2023)

| Sl. No. | State | Year | Powered Vessels Employed for passengers (Nos.) | Total No. of passengers carried (000) |
|---------|---------------|------|--|--|
| 1 | 2 | 3 | 4 | 5 |
| 1 | Assam | 2019 | 98 | 8514.22 |
| | | 2020 | 98 | 6585.91 |
| | | 2021 | 76 | 1979.20 |
| | | 2022 | 66 | 4385.95 |
| | | 2023 | 70 | 3155.38 |
| 2 | Bihar* | 2019 | 83 | 578.00 |
| | | 2020 | 83 | 578.00 |
| | | 2021 | N.A | N.A |
| | | 2022 | 0 | 0.00 |
| | | 2023 | 0 | 0.00 |
| 3 | Karnataka | 2019 | 66 | 2158.00 |
| | | 2020 | 37 | 1617.00 |
| | | 2021 | 37 | 916.25 |
| | | 2022 | 46 | 928.02 |
| | | 2023 | - | 1283.79 |
| 4 | Kerala | 2019 | 66 | 19739.08 |
| | | 2020 | 74 | 20535.31 |
| | | 2021 | 63 | 8874.78 |
| | | 2022 | 104 | 19224.53 |
| | | 2023 | 103 | 20262.39 |
| 5 | Maharashtra | 2019 | - | 19291.70 |
| | | 2020 | - | 15922.30 |
| | | 2021 | - | 9106.53 |
| | | 2022 | - | 13667.60 |
| | | 2023 | | 18724.02 |
| 6 | Odisha* | 2019 | 11 | 128.62 |
| | | 2020 | 11 | 131.22 |
| | | 2021 | 11 | 131.22 |
| | | 2022 | 18 | 118.41 |
| | | 2023 | 18 | 118.41 |
| 7 | West Bengal | 2019 | 321 | 106492.00 |
| | | 2020 | 335 | 116880.00 |
| | | 2021 | 378 | 126980.00 |
| | | 2022 | 332 | 136369.00 |
| | | 2023 | 53 | 29762.61 |
| 8 | Jharkhand* | 2021 | ** | ** |
| | | 2022 | | N.A. |
| | | 2023 | | N.A. |
| 9 | Uttar Pradesh | 2023 | 3 | 23.86 |

Source : State Governments

: Not Available-

* Information for the year 2022-23 has not received. Previous Year data has been Repeated

** 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 2023)**

| Private Companies Undertakings By Type (As On 31st March 2023) | | | | | | |
|--|--|----------------|-----------------|-----------------------------|-------------------|---|
| 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 | | | | | |
| | 2021 | 1 | - | 1.32 | - | N.A. |
| | 2022 | 1 | - | 1.32 | - | N.A. |
| | 2023 | 1 | - | 1.32 | - | N.A. |
| 2 | V.M.Salgaocar Sales International | | | | | |
| | 2021 | 2 | - | 2.81 | - | N.A. |
| | 2022 | 2 | - | 2.81 | - | N.A. |
| | 2023 | 2 | - | 2.81 | - | N.A. |
| 3 | Sesa Resource Ltd. | | | | | |
| | 2021 | 2 | - | 2.14 | NA | N.A. |
| | 2022 | 2 | - | 2.14 | NA | N.A. |
| | 2023 | 2 | - | 2.14 | NA | N.A. |
| 4 | Vedanta Ltd. | | | | | |
| | 2021 | 30 | 1 | 41 | 88 | NA |
| | 2022 | 31 | 1 | 43 | 88 | NA |
| | 2023 | 31 | 1 | 43 | 88 | NA |
| 5 | Jindal ITF Ltd. | | | | | |
| | 2021 | 28 | - | 589.29 | - | - |
| | 2022 | 28 | - | - | - | - |
| | 2023 | 25 | - | - | - | - |
| 6 | Kottayam Port and Container Terminal Pvt. Ltd. | | | | | |
| | 2021 | 1 | - | 0.2 | - | Nil |
| | 2022 | 1 | - | 0.2 | - | Nil |
| | 2023 | 1 | - | 0.2 | - | Nil |
| 7 | Maharshi Shipping Co. | | | | | |
| | 2021 | 6 | - | 274.86 | - | - |
| | 2022 | 6 | - | - | - | - |
| | 2023 | 6 | - | - | - | - |
| 8 | Indo-Swiss Trading Co. Pvt. Ltd. | | | | | |
| | 2021 | - | 2 | 0.12 | 270 | - |
| | 2022 | - | 2 | 0.12 | 270 | - |
| | 2023 | - | 4 | - | - | - |
| 9 | VIVADA Inland Waterways Ltd. | | | | | |
| | 2021 | 8 | 6 | 825.220 | 15985 | - |
| | 2022 | 10 | 6 | - | - | - |
| | 2023 | 8 | 4 | - | - | - |
| 10 | West Bengal Surface Transport Corporation Ltd | | | | | |
| | 2021 | 8 | 78 | - | 55579028 | - |
| | 2022 | 8 | 78 | - | - | - |
| | 2023 | 3 | 25 | - | - | - |

Table No. 4.1

**IWT Vessels With Valid Certificates of Survey-Owned By Responding
Private Companies/Undertakings By Type (As on 31st March 2023)**

| Private Companies Undertakings By Type (As On 31st March 2023) | | | | | | |
|--|---|----------------|-----------------|-----------------------------|-------------------|---|
| 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 | | | | | |
| | 2021 | - | 40 | - | 40780228 | - |
| | 2022 | - | 40 | - | - | - |
| | 2023 | - | 27 | - | - | - |
| 12 | West Bengal Tourism Development Corporation limited, Kolkata* | | | | | |
| | 2021 | - | 8 | - | 25750 | - |
| | 2022 | - | 8 | - | - | - |
| | 2023 | | | | | |
| 13 | Eastern Navigation (P) Ltd. | | | | | |
| | 2021 | 10 | 2 | 831.46 | 6878 | |
| | 2022 | 36 | 2 | - | - | |
| | 2023 | 36 | 2 | - | - | - |
| 14 | Ghatal Steam Navigation (P) Ltd., Kolkata* | | | | | |
| | 2021 | - | 4 | - | 335710 | - |
| | 2022 | - | 4 | - | - | - |
| | 2023 | | | | | |
| 15 | Diamond Harbour Municipality, Kolkata* | | | | | |
| | 2021 | - | 3 | - | 179369 | - |
| | 2022 | - | 3 | - | - | - |
| | 2023 | | | | | |
| 16 | Bengal Heritage River* | | | | | |
| | 2021 | - | 8 | - | 18059 | - |
| | 2022 | - | 8 | - | - | - |
| | 2023 | | | | | |
| 17 | Chandan Nagar Municipality, Kolkata* | | | | | |
| | 2021 | - | 3 | - | 35702 | - |
| | 2022 | - | 3 | - | - | - |
| | 2023 | | | | | |
| 18 | Sohom Shipping Pvt.Ltd. | | | | | |
| | 2021 | Nil | Nil | Nil | Nil | Nil |
| | 2022 | 6 | - | - | - | - |
| | 2023 | 11 | - | - | - | - |
| 19 | Assam Bengal Navigation Co. Pvt. Ltd. | | | | | |
| | 2021 | - | 4 | - | 122 | - |
| | 2022 | - | 4 | | 122 | NA |
| | 2023 | - | 4 | - | 122 | NA |
| 20 | M/s Pennon Shipping Pvt. Ltd. | | | | | |
| | 2021 | 6 | - | 10.947 | Nil | Nil |
| | 2022 | 1 | - | 1.80 | Nil | Nil |
| | 2023 | 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 2023)**

| Private Companies Undertakings By Type (As on 31st March 2024) | | | | | | |
|--|--|----------------|-----------------|-----------------------------|-------------------|---|
| 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. 2021 | 2 | - | 7.30 | - | - |
| | 2022 | 2 | - | 5.30 | - | NA |
| | 2023 | 2 | - | 5.31 | - | - |
| 22 | Krishna Shipping & Logistics 2021 | 5 | - | 2.08 | - | 5 |
| | 2022 | 4 | - | 1.99 | - | 5 |
| | 2023 | 5 | - | 2.08 | - | 7 |
| 23 | JSW Salav Steel Ltd. 2021 | NA | NA | NA | NA | NA |
| | 2022 | NA | NA | NA | NA | NA |
| | 2023 | 1 | - | 0.01 | - | - |
| 24 | Finolex Industries Ltd. 2021 | 1 | - | 0.01 | | |
| | 2022 | 2 | - | 0.03 | 18 | NA |
| | 2023 | 2 | - | 0.03 | 18 | NA |
| 25 | Minescape Minerals Pvt. Ltd. 2021 | - | - | - | - | - |
| | 2022 | 4 | - | 8.65 | - | - |
| | 2023 | 4 | - | 8.65 | - | - |
| 26 | Jsw Jaigarh Port Ltd. 2021 | 4 | - | 21.06 | Nil | Nil |
| | 2022 | 4 | - | 21.06 | Nil | Nil |
| | 2023 | 4 | - | 21.06 | Nil | Nil |
| 27 | The Fertilizers and Chemicals Travancore Limited 2021 | 1 | - | 0.417 | - | - |
| | 2022 | 1 | - | 0.417 | - | - |
| | 2023 | 1 | - | 0.417 | - | NA |
| 28 | Infrastructure Logistics Pvt. Ltd. 2021 | 3 | - | 106.68 | - | - |
| | 2022 | 6 | - | 329.73 | - | - |
| | 2023 | 4 | - | 218.60 | NA | - |
| 29 | Kerala Shipping & Inland Navigation Co. Ltd. 2021 | 6 | - | 1.76 | - | - |
| | 2022 | 11 | 3 | 3.62 | 584 | - |
| | 2023 | 11 | 5 | 3.87 | 784 | - |

**IWT Vessels With Valid Certificates of Survey-Owned By Responding
Private Companies/Undertakings By Type (As on 31st March 2023)**

Table No. 4.1

| Private Companies Undertakings By Type (As on 31st March 2020) | | | | | | |
|--|--|----------------|-----------------|-----------------------------|-------------------|---|
| Sl. No. | Company/ Undertaking and Year | Self Propelled | | | | Non-Self Propelled (Dumb Barges) (No.) |
| | | Type of vessel | | Carrying capacity | | |
| | | Cargo (No.) | Passenger (No.) | Cargo(in thousandTonnes) | Passenger(in No.) | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 30 | M/sTimblo Pvt. Ltd. | | | | | |
| | 2021 | 1 | 1 | 0.149+(60 KL HFHSD) | 8 | Nil |
| | 2022 | 2 | - | 0..250+(60 KL HFHSD) | 14 | Nil |
| | 2023 | 1 | 1 | 0.025+(60 KL HFHSD) | 14 | Nil |
| 31 | Backwater Navigation Co. | | | | | |
| | 2021 | 1 | - | 0.19 | - | - |
| | 2022 | 1 | - | 0.19 | - | NA |
| | 2023 | 1 | - | 0.19 | - | NA |
| 32 | Adventure Resorts & Cruises Pvt. Ltd. | | | | | |
| | 2021 | - | 2 | 1.21 | 64 | - |
| | 2022 | Passenger | 2 | NA | 64 | NA |
| | 2023 | Passenger | 2 | 1.21 | 64 | NA |
| 33 | K.K. Shipping | | | | | |
| | 2021 | 1 | - | 0.47 | - | Nil |
| | 2022 | 1 | - | 0.27 | - | Nil |
| | 2023 | 1 | - | 0.40 | Nil | Nil |
| 34 | Haldia Nirman Projects Pvt. Ltd. | | | | | |
| | 2021 | Nil | Nil | Nil | Nil | Nil |
| | 2022 | Nil | Nil | Nil | Nil | Nil |
| | 2023 | Nil | Nil | Nil | Nil | Nil |
| 35 | Inland Coastal Shipping Ltd. | | | | | |
| | 2021 | 2 | - | 600 | - | NA |
| | 2022 | 2 | - | 0.60 | - | NA |
| | 2023 | 2 | - | 0.60 | - | NA |
| 36 | Heritage River Journeys Pvt. Ltd. | | | | | |
| | 2021 | - | 2 | - | 112 | - |
| | 2022 | - | 2 | - | 112 | - |
| | 2023 | - | 3 | - | 148 | - |
| 37 | Spring Professional Services Pvt. Ltd. | | | | | |
| | 2021 | - | - | - | - | - |
| | 2022 | - | 1 | - | 70 | - |
| | 2023 | - | 1 | - | 70 | - |
| 38 | JSW Dharamtar Port Pvt. Ltd. | | | | | |
| | 2021 | - | - | - | - | - |
| | 2022 | Nil | Nil | Nil | Nil | Nil |
| | 2023 | Nil | Nil | Nil | Nil | Nil |

**IWT Vessels With Valid Certificates of Survey-Owned By Responding
Private Companies/Undertakings By Type (As on 31st March 2023)**

Table No. 4.1

| Table No. 4.1 | | | | | | |
|---------------|--|----------------|-----------------|-----------------------------|-------------------|---|
| 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. | | | | | |
| | 2021 | 3 | - | 4 | NA | NA |
| | 2022 | 12 | - | 14 | NA | NA |
| | 2023 | 20 | | 25 | NA | NA |
| 40 | M/S Neli | | | | | |
| | 2021 | - | - | - | - | - |
| | 2022 | - | - | - | - | - |
| | 2023 | 1 | - | 0.5 | Nil | - |
| 41 | TP RoyChowdhury & Co. Pvt. Ltd. | | | | | |
| | 2022 | 5 | - | 9.15 | - | Nil |
| | 2023 | 5 | - | 9.15 | Nil | Nil |
| 42 | M/s Shiny Shipping & Logistics Pvt Ltd | | | | | |
| | 2022 | 2 | - | 1.37 | - | - |
| | 2023 | 2 | - | 1.37 | - | - |
| 43 | M/s Nadi Bangla Shipping Corporation* | | | | | |
| | 2022 | Nil | Nil | Nil | Nil | Nil |
| | 2023 | | | | | |
| 44 | Tisha Navigation | | | | | |
| | 2023 | Nil | Nil | Nil | Nil | Nil |
| 45 | Cochin Bunkers Pvt. Ltd. | | | | | |
| | 2022 | 3 | - | 0.98 | - | - |
| | 2023 | 4 | - | 1.90 | - | NA |
| 46 | Suman Forwarding Agency Pvt. Ltd. | | | | | |
| | 2023 | 1 | - | 0.40 | Nil | NA |
| 47 | Azzura Marine Liners Pvt. Ltd. | | | | | |
| | 2023 | 4 | - | - | - | - |
| 48 | M/s Osprey Waterways (India) | | | | | |
| | 2023 | - | 1 | - | 156 | - |
| 49 | Abul Hassan & Brothers Pvt. Ltd | | | | | |
| | 2023 | 2 | - | - | - | - |
| 50 | Eminence Shipping Agencies Pvt. Ltd. | | | | | |
| | 2023 | NA | NA | NA | NA | NA |

Source: Pvt. IWT Companies/Major Operators

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

NA- Not Applicable

* No information received for the year 2022-23

Table No. 4.2

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

(Year Ending 31st March 2023)

| 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 | | | | | | | | |
| | 2021 | Cargo | 1 | 5328 | 153.30 | 156884 | 835.88 | NA | - |
| | 2022 | Cargo | 1 | 2854 | 107.72 | 122559.72 | 349.73 | NA | - |
| | 2023 | Cargo | 1 | 2637 | 108.65 | 107919.97 | 284.62 | NA | - |
| 2 | V.M.Salgaocar Sales International | | | | | | | | |
| | 2021 | Cargo | 2 | 6890 | 206.49 | 219483 | 1512.24 | NA | - |
| | 2022 | Cargo | 2 | 2645 | 98.44 | 116072 | 307.00 | NA | - |
| | 2023 | Cargo | 2 | 2581 | 108.82 | 110077 | 284.08 | NA | - |
| 3 | Sesa Resources Ltd. | | | | | | | | |
| | 2021 | Cargo | 2 | 7754 | NA | 16392838.55 | 127110.07 | NA | - |
| | 2022 | Cargo | 2 | 9672 | (c) | 278573.72 | 2694.37 | NA | - |
| | 2023 | Cargo | 2 | 5227 | Nil | 134125.33 | 701.07 | NA | - |
| 4 | Vedanta Ltd. | | | | | | | | |
| | 2021 | Cargo/Passenger | 17 | 77997 | NA | 3150383.38 | 245720.45 | NA | - |
| | 2022 | Cargo/Passenger | 21 | 61135 | (c) | 2303667.28 | 140834.70 | NA | - |
| | 2023 | Cargo/Passenger | 20 | 61347 | Nil | 1743256.162 | 106943.54 | NA | - |
| 5 | Jindal ITF Ltd. | | | | | | | | |
| | 2021 | Cargo | 28 | - | 525.18 | 589290 | - | - | - |
| | 2022 | Cargo | 28 | - | 561.81 | 627850 | - | - | - |
| | 2023 | Cargo | 25 | - | 628.36 | 575000 | - | - | - |
| 6 | Kottayam Port & Container Terminal Pvt. Ltd. | | | | | | | | |
| | 2021 | All | 1 | 100 | Nil | Nil | - | - | - |
| | 2022 | All | 1 | 100 | Nil | Nil | - | NA | - |
| | 2023 | All | 1 | | Nil | Nil | - | Nil | - |
| 7 | Maharshi Shipping Co. | | | | | | | | |
| | 2021 | Cargo | 6 | - | 171.73 | 274860 | - | - | - |
| | 2022 | Cargo | 6 | - | 175.52 | 281610 | - | - | - |
| | 2023 | Cargo | 6 | - | 217.85 | 76699 | - | - | - |
| 8 | Indo-Swiss Trading Co.Pvt. Ltd. | | | | | | | | |
| | 2021 | Pass. | 2 | 14670 | - | - | - | - | - |
| | 2022 | Pass. | 2 | 15472 | Nil | - | - | - | - |
| | 2023 | Pass. | 4 | - | 256.53 | - | - | 375662 | - |
| 9 | VIVADA Inland Waterways Ltd. | | | | | | | | |
| | 2021 | Cargo/Tug/Pass/LCT | 16 | - | 982.39 | 82522 | - | 15985 | - |
| | 2022 | Cargo/Tug/Pass/LCT | 16 | - | 995.42 | 91035 | - | 17215 | - |
| | 2023 | Cargo/Pass | 12 | - | 1326.67 | 251000 | - | 33056 | - |
| 10 | W. Bengal Surface Transport Corporation Ltd. | | | | | | | | |
| | 2021 | Pass./LCT | 86 | - | 838.78 | 37712(b) | - | 55579028 | - |
| | 2022 | Pass./LCT | 86 | - | 861.21 | 38213(b) | - | 58178258 | - |
| | 2023 | Pass./LCT | 28 | - | 415.61 | 18106(b) | - | 10624800 | - |

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

Table No. 4.2

(Year Ending 31st March 2023)

| 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 | | | | | | | | |
| | 2021 | Pass. | 40 | - | 518.18 | - | - | 40780228 | - |
| | 2022 | Pass. | 40 | - | 525.12 | - | - | 41621238 | - |
| | 2023 | Pass. | 27 | - | 282.56 | - | - | 19137592 | - |
| 12 | West Bengal Tourism Development Corpn. Ltd., Kolkata* | | | | | | | | |
| | 2021 | Pass. | 8 | - | 95.18 | - | - | 25750 | - |
| | 2022 | Pass. | 8 | - | 98.65 | - | - | 27635 | - |
| | 2023 | | | | | | | | |
| 13 | Eastern Navigation (P) Ltd. | | | | | | | | |
| | 2021 | Cargo/Tug/Pass. | 12 | | 505.26 | 831.46 | | | - |
| | 2022 | Cargo/Tug/Pass. | 38 | - | 514.31 | 854.42 | - | 7115 | - |
| | 2023 | Cargo/Tug/Pass. | 38 | - | 612.52 | 3795 | - | 8240.00 | - |
| 14 | Ghatal steam Navigation (P) Ltd. Kolkata* | | | | | | | | |
| | 2021 | Pass. | 4 | - | 253.16 | - | - | 335710 | - |
| | 2022 | Pass. | 4 | - | 258.61 | - | - | 342621 | - |
| | 2023 | | | | | | | | |
| 15 | Diamond Harbour Municipality, Kolkata* | | | | | | | | |
| | 2021 | Pass. | 3 | - | 126.12 | - | - | 179369 | - |
| | 2022 | Pass. | 3 | - | 131.42 | - | - | 191467 | - |
| | 2023 | | | | | | | | |
| 16 | Bengal Heritage River* | | | | | | | | |
| | 2021 | Tugs | 8 | - | 15.16 | - | - | 18059 | - |
| | 2022 | Tugs | 8 | - | 19.42 | - | - | 22165 | - |
| | 2023 | | | | | | | | |
| 17 | Chandan Nagar Municipality, Kolkata* | | | | | | | | |
| | 2021 | Pass. | 3 | - | 4.29 | - | - | 35702 | - |
| | 2022 | Pass. | 3 | - | 4.95 | - | - | 38145 | - |
| | 2023 | | | | | | | | |
| 18 | Soham Shipping Pvt.Ltd. | | | | | | | | |
| | 2021 | Nil | Nil | Nil | Nil | Nil | Nil | Nil | Nil |
| | 2022 | Cargo | 6 | - | 112.5 | 214850 | - | - | - |
| | 2023 | Cargo | 11 | - | - | 96007 | - | - | - |
| 19 | Assam Bengal Navigation Co. Pvt. Ltd. | | | | | | | | |
| | 2021 | - | 10 | 2717 | - | - | - | 661 | 1.80 |
| | 2022 | Pass. | 8 | 2577 | - | - | - | 280 | 0.72 |
| | 2023 | Pass. | 10 | | - | - | - | 544 | |

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

Table No. 4.2

(Year Ending 31st March 2023)

| 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. | | | | | | | | |
| | 2021 | Cargo | 6 | 27095 | - | 349340 | 9465 | - | - |
| | 2022 | Cargo | 1 | 2072 | - | 33469 | 69 | Nil | - |
| | 2023 | Cargo | 1 | 21384 | - | 25353 | 542 | Nil | - |
| 21 | Ganges Water Transport Co. Pvt. Ltd. | | | | | | | | |
| | 2021 | Cargo | 2 | 33132 | 287.47 | 89461 | 2964.02 | - | - |
| | 2022 | Cargo | 2 | | 412.40 | 103284 | | NA | - |
| | 2023 | Cargo | 2 | 9432.5 | 395.60 | 124788 | 1177.06 | - | - |
| 22 | Krishna Shipping & Logistics | | | | | | | | |
| | 2021 | - | - | - | - | - | - | - | - |
| | 2022 | - | - | - | - | - | - | - | - |
| | 2023 | - | - | - | - | - | - | - | - |
| 23 | JSW Salav Steel Ltd. | | | | | | | | |
| | 2021 | Cargo | 8 | 2304 | Nil | 274248 | 631.87 | NA | NA |
| | 2022 | Cargo | 4 | 1071 | Nil | 238000 | 254.90 | NA | NA |
| | 2023 | Cargo | 7 | 9504 | Nil | 418395 | 3976.43 | NA | NA |
| 24 | Finolex Industries Ltd. | | | | | | | | |
| | 2021 | - | Nil | NA | NA | NA | NA | NA | NA |
| | 2022 | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2023 | NA | NA | NA | NA | NA | NA | NA | NA |
| 25 | Minescape Mineraaals Pvt. Ltd. | | | | | | | | |
| | 2021 | - | - | - | - | - | - | - | - |
| | 2022 | - | - | - | - | - | - | - | - |
| | 2023 | - | 4 | 4400 | 217.8 | 2000 | 8.80 | - | - |
| 26 | Jsw Jaigarh Port Ltd. | | | | | | | | |
| | 2021 | Cargo | 4 | 89304 | - | 2668326 | 238292.19 | - | - |
| | 2022 | Cargo | 4 | 76372 | - | 2297051 | 175430.38 | - | - |
| | 2023 | Cargo | 4 | 134663 | - | 2255580 | 303742.32 | - | - |
| 27 | The Fertilizers and Chemicals Travancore Limited | | | | | | | | |
| | 2021 | | 1 | 20467 | + | 58307.28 | 1193.38 | - | - |
| | 2022 | Cargo | 1 | 22876 | + | 70464 | 1611.93 | - | - |
| | 2023 | Cargo | 1 | 22838 | NA(+) | 64866 | 1481.41 | NA | NA |
| 28 | Infrastructure Logistics Pvt. | | | | | | | | |
| | 2021 | Cargo | 5 | 1704 | (d) | 215680 | 367.52 | - | - |
| | 2022 | | 6 | 4862 | (d) | 329725 | 1603.12 | - | - |
| | 2023 | Cargo | 4 | 3477 | (d) | 218600 | 760.07 | NA | NA |

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

Table No. 4.2

(Year Ending 31st March 2023)

| 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. | | | | | | | | |
| | 2021 | Cargo | 6 | 28314 | 497.75 | 257108 | 7279.76 | - | - |
| | 2022 | Cargo/Passenger | 11 | 17948 | 371.94 | 158185.6 | 2839.12 | 1001445 | 17973.93 |
| | 2023 | Cargo/Passenger | 9 | 13672 | 282.85 | 121118 | 1655.93 | 1001445 | |
| 30 | Timblo Pvt. Ltd. | | | | | | | | |
| | 2021 | Cargo/Passenger | 3 | 67 | 2.30 | 147 KL | 10.08 | - | - |
| | 2022 | Passenger | 1 | 222 | 1.29 | 110 | 33.60 | - | - |
| | 2023 | Cargo/Passenger | 1 | 593 | 12.46 | 120 | 89.61 | - | - |
| 31 | Backwater Navigation Co. | | | | | | | | |
| | 2021 | Cargo | 1 | 24424 | 257.00 | 66048 | 1613.16 | - | - |
| | 2022 | Cargo | 1 | 24424 | 287.00 | 66048 | 1613.16 | - | - |
| | 2023 | Cargo | 1 | 25489 | 306.00 | 68864 | 1755.27 | NA | NA |
| 32 | Adventure Resorts & Cruises Pvt. Ltd. | | | | | | | | |
| | 2021 | Passenger | 2 | 473 | 0 | 0 | - | 0 | 0 |
| | 2022 | Passenger | 2 | NA | NA | NA | NA | NA | - |
| | 2023 | Passenger | 2 | | 237 | - | - | 315 | |
| 33 | K.K. Shipping | | | | | | | | |
| | 2021 | Cargo | 1 | 1560 | 13.50 e | 2462 | 3.84 | - | - |
| | 2022 | Cargo | 1 | 1560 | 13.50 e | 704 | 1.10 | - | - |
| | 2023 | Cargo | 1 | 3120 | 14.50e | 3809 | 11.88 | NA | NA |
| 34 | Haldia Nirman Projects Pvt. Ltd. | | | | | | | | |
| | 2021 | NA | NA | NA | NA | NA | NA | NA | NA |
| | 2022 | Nil | Nil | Nil | Nil | Nil | Nil | Nil | Nil |
| | 2023 | Nil | Nil | Nil | Nil | Nil | Nil | Nil | Nil |
| 35 | Inland Coastal Shipping Ltd. | | | | | | | | |
| | 2021 | Cargo | 2 | 3260 | 1.98 | 420 | 1.37 | - | - |
| | 2022 | Cargo | 2 | 5705 | 2.51 | 650 | 3.71 | - | - |
| | 2023 | Cargo | 2 | 8965 | 7.12245 | 871 | 7.81 | Nil | Nil |
| 36 | Heritage River Journeys Pvt. Ltd. | | | | | | | | |
| | 2021 | - | - | - | - | - | - | - | - |
| | 2022 | - | - | - | - | - | - | - | - |
| | 2023 | Passenger | 3 | | - | - | - | 982 | |
| 37 | Spring Professional Services Pvt. Ltd. | | | | | | | | |
| | 2021 | - | - | - | - | - | - | - | - |
| | 2022 | Passenger | 1 | 200 | 0.51 | - | - | 180 | 0.04 |
| | 2023 | Passenger | 1 | 120 | 0.51 | - | - | 60 | 0.01 |
| 38 | JSW Dharamtar Port Pvt. Ltd. | | | | | | | | |
| | 2021 | - | 50 | 596454 | Nil | 12902 | 7695 | - | - |
| | 2022 | - | 60 | 707564 | - | 17207 | 12175 | - | - |
| | 2023 | - | 60 | 1065284 | - | 24296 | 25882 | | |

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

Table No. 4.2

(Year Ending 31st March 2023)

| 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. | | | | | | | | |
| | 2021 | - | - | - | - | 3272050 | - | - | - |
| | 2022 | - | - | - | - | 3288000 | - | NA | - |
| | 2023 | - | - | - | - | 3382673 | - | NA | - |
| 40 | M/S Neli | | | | | | | | |
| | 2021 | - | - | - | - | - | - | - | - |
| | 2022 | - | - | - | - | - | - | - | - |
| | 2023 | Cargo | 1 | 6240 | 14.50e | 9005 | 56.19 | NA | NA |
| 41 | TP RoyChowdhury & Co. Pvt. Ltd. | | | | | | | | |
| | 2022 | Cargo | 5 | 18237 | - | 298288 | 5439.88 | Nil | - |
| | 2023 | Cargo | 5 | 561672 | - | 352112 | 197771.45 | - | - |
| 42 | M/s Shiny Shipping & Logistics Pvt Ltd | | | | | | | | |
| | 2022 | - | - | - | - | - | - | - | - |
| | 2023 | - | - | - | - | - | - | - | - |
| 43 | M/s Nadi Bangla Shipping Corporation* | | | | | | | | |
| | 2022 | Nil | Nil | Nil | Nil | Nil | Nil | Nil | Nil |
| | 2023 | - | - | - | - | - | - | - | - |
| 44 | Tisha Navigation | | | | | | | | |
| | 2023 | Nil | Nil | Nil | Nil | Nil | Nil | Nil | Nil |
| 45 | Cochin Bunkers Pvt. Ltd. | | | | | | | | |
| | 2022 | Cargo | 3 | - | - | - | - | - | - |
| | 2023 | Cargo | 4 | 34840 | 498.33 | 219405 | 7644.07 | - | - |
| 46 | Suman Forwarding Agency Pvt. Ltd. | | | | | | | | |
| | 2023 | NA | NA | NA | NA | NA | NA | NA | NA |
| 47 | Azzura Marine Liners Pvt. Ltd. | | | | | | | | |
| | 2023 | Passenger | 4 | - | - | 154150 | 405 | - | - |
| 48 | M/s Osprey Waterways (India) | | | | | | | | |
| | 2023 | Passenger | 1 | - | 83 | - | - | 8000 | - |
| 49 | Abul Hassan & Brothers Pvt. Ltd | | | | | | | | |
| | 2023 | Cargo | 2 | - | - | 25992 | - | - | - |
| 50 | Eminence Shipping Agencies Pvt. Ltd. | | | | | | | | |
| | 2023 | NA | NA | NA | NA | NA | NA | NA | NA |

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 (14.50 USD per MT)

+ : Barge is used for transportation between production division

* No information received for the year 2022-23

SECTION – 5

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

Table No. 5.1

YEAR WISE FINANCIAL PERFORMANCE FROM F.Y. 2019-20 TO F.Y. 2023-24

(Rs. In Crore)

| Sl. No. | Budget head/ Waterways | Financial Year | | | Financial Year | | | Financial Year | | | Financial Year | | | Financial Year | | |
|---------|---|----------------|---------------|----------------|----------------|---------------|---------------|----------------|---------------|---------------|----------------|---------------|------------------------------|----------------|-----|------|
| | | (2019-20) | | | (2020-21) | | | (2021-22) | | | (2022-23) | | | (2023-24) | | |
| | | B.E | R.E | Exp. | B.E | R.E | Exp. | B.E | R.E @ | Exp. | B.E @ | R.E | Exp. (Provisional/unaudited) | B.E @ | R.E | Exp. |
| I | Grants to IWAI/INVESTMENT (Except JMVP & NEA - 21-22/22-23) @ | | | | | | | | | | | | | | | |
| 1 | National Waterway-1 | 96.66 | 90.66 | 155.10 | 109.00 | 62.00 | 60.19 | 75.00 | 85.50 | 87.83 | 90.00 | 87.03 | 87.22 | | | |
| 2 | National Waterway-3 | 51.43 | 15.21 | 26.07 | 31.00 | 21.00 | 21.52 | 10.00 | 10.20 | 10.83 | 6.00 | 4.53 | 4.51 | | | |
| 3 | National Waterway-4 | | | | | 37.00 | 3.62 | 3.50 | 3.10 | 3.08 | 0.50 | 0.18 | 0.18 | | | |
| 4 | National Waterway-5 | | | | | | 2.13 | 3.00 | 2.60 | 2.58 | 1.00 | 0.76 | 0.76 | | | |
| 5 | Others Projects/Activities etc.** | 156.47 | 18.23 | 31.50 | 60.00 | | 9.82 | 10.00 | 12.00 | 12.89 | 7.00 | 6.50 | 6.33 | | | |
| 6 | Other NWs | | | | | | 3.40 | 0.50 | 0.60 | 0.59 | 1.50 | 1.00 | 0.86 | | | |
| | Sub Total - I | 304.56 | 124.10 | 212.67* | 200.00 | 120.00 | 100.68 | 102.00 | 114.00 | 117.80 | 106.00 | 100.00 | 99.86 | 118.46 | | |
| II | Jal Marg Vikas Project (JMVP) | 230.00 | 230.00 | 461.83* | 300.00 | 261.50 | 227.83 | 295.00 | 218.00 | 229.61 | 285.01 | 295.51 | 315.88 | | | |
| | Sub Total - I+II (Grants to IWAI including JMVP)/Investments (except NEA - 21-22/22-23) @ | 534.56 | 354.10 | 674.50* | 500.00 | 381.50 | 328.51 | 397.00 | 332.00 | 347.41 | 391.01 | 395.51 | 415.74 | 546.50 | | |
| III | North Eastern Areas | | | | | | | | | | | | | | | |
| 1 | National Waterway-2 | 80.00 | 52.50 | 58.43* | 40.00 | 32.00 | 38.79 | 89.10 | 84.80 | 78.04 | 99.80 | 99.80 | 98.96 | 197.00 | | |
| 2 | Proposed NW-16 (Barak) *** | | | | | | | | | | | | | | | |
| 3 | Development of Indo- Bangladesh protocol for Channel marking, Dredging & Night Navigation etc. *** | | | | | | | | | | | | | | | |
| 4 | Central Plan scheme for NER (Operated by IWT Section MoPS&W) (Being controlled by IWT Wing of Ministry) | | | | | | | | | | | | | | | |
| | Sub total - III (NER) @ | 80.00 | 52.50 | 58.43* | 40.00 | 32.00 | 38.79 | 89.10 | 84.80 | 78.04 | 99.80 | 99.80 | 98.96 | 197.00 | | |
| | Grand Total | 614.56 | 406.60 | 732.93* | 540.00 | 413.50 | 367.30 | 486.10 | 416.80 | 425.45 | 490.81 | 495.31 | 514.70 | 861.96 | | |

Source : Inland Waterways Authority of India (IWAI)

Note: Expenditure shown on Accrual basis

* Expenditure during 2016-17 to 2019-20 also includes expenditure from Bond Fund raised from Extra Budgetary Resources (EBRs) during 2016-17 and 2017-18 for Rs. 340 crore and Rs.660 crore respectively.

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

*** Budget and expenditure on account of Sl. No.III. 2 for NW-16 (Barak) and Sl. No.III. 3 are included in Sl. No.III.1 under North Eastern Areas.

@ Budget provided to IWAI under Capital Section/Head - Capital Outlay -Investment during 2021-22 (RE) and onwards.

SECTION – 6

**INLAND WATERWAYS
TRANSPORT ACCIDENTS**

Table No. 6.1 No. of Accidents, Persons Injured And Died by Drowning (Boat Capsize) in States During 2022.

| 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 | 49 | 0 | 0 | 0 | 0 | 43 | 12 | 0 | 55 |
| 2 | Arunachal Pradesh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3 | Assam | 8 | 0 | 0 | 0 | 0 | 3 | 5 | 0 | 8 |
| 4 | Bihar | 98 | 33 | 7 | 0 | 40 | 68 | 31 | 0 | 99 |
| 5 | Chhattisgarh | 3 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 3 |
| 6 | Goa | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7 | Gujarat | 5 | 0 | 0 | 0 | 0 | 7 | 4 | 0 | 11 |
| 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 | 10 | 0 | 0 | 0 | 0 | 12 | 3 | 0 | 15 |
| 11 | Karnataka | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 12 | Kerala | 13 | 0 | 0 | 0 | 0 | 16 | 2 | 0 | 18 |
| 13 | Madhya Pradesh | 1 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 |
| 14 | Maharashtra | 2 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 3 |
| 15 | Manipur | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16 | Meghalaya | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17 | Mizoram | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| 18 | Nagaland | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 19 | Odisha | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 | 13 | 0 | 0 | 0 | 0 | 13 | 1 | 0 | 14 |
| 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 | 49 | 0 | 0 | 2 | 2 | 42 | 8 | 0 | 50 |
| 27 | Uttarakhand | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 28 | West Bengal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total(States) | | 253 | 33 | 7 | 2 | 42 | 210 | 71 | 0 | 281 |
| UNION TERRITORIES | | | | | | | | | | |
| 29 | Andaman & Nicobar Island | 3 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 |
| 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 36 | Puducherry | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total (UTs) | | 3 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 |
| Total States/UTs | | 256 | 33 | 7 | 2 | 42 | 213 | 71 | 0 | 284 |

Source : Accidental Deaths & Suicides in India - 2022

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 (ChhotoKalergachi) 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 | Tlwang (Dhaleswari River) | Assam & Mizoram |
| 103 | National Waterway 103 | 73 | Tons River | Uttar Pradesh |
| 104 | National Waterway 104 | 232 | Tungabhadra River | Karnataka, Telangana & Andhra Pradesh |
| 105 | National Waterway 105 | 15 | Udayavara River | Karnataka |
| 106 | National Waterway 106 | 20 | Umngot (Dawki) River | Meghalaya |
| 107 | National Waterway 107 | 46 | Vaigai River | Tamil Nadu |
| 108 | National Waterway 108 | 53 | Varuna River | Uttar Pradesh |
| 109 | National Waterway 109 | 166 | Wainganga - Pranahita River System | Maharashtra & Telangana |

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

INFRASTRUCTURE FACILITIES ON NATIONAL WATERWAYS 1, 2 & 3

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

1. Varanasi MMT

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

2. Assi Ghat, Varanasi

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

3. Rajghat, Varanasi

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

4. Gaighat, Patna

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

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

5. Munger

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

6. Bhagalpur

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

7. Bateshwarsthan, Bihar

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

8. Samdaghat, Sahibganj

- a. Type of Jetty: Floating pontoon
- b. Usage: Passenger vessels including Ro-Ro service
- c. Managed by: IWAI
- . 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. |