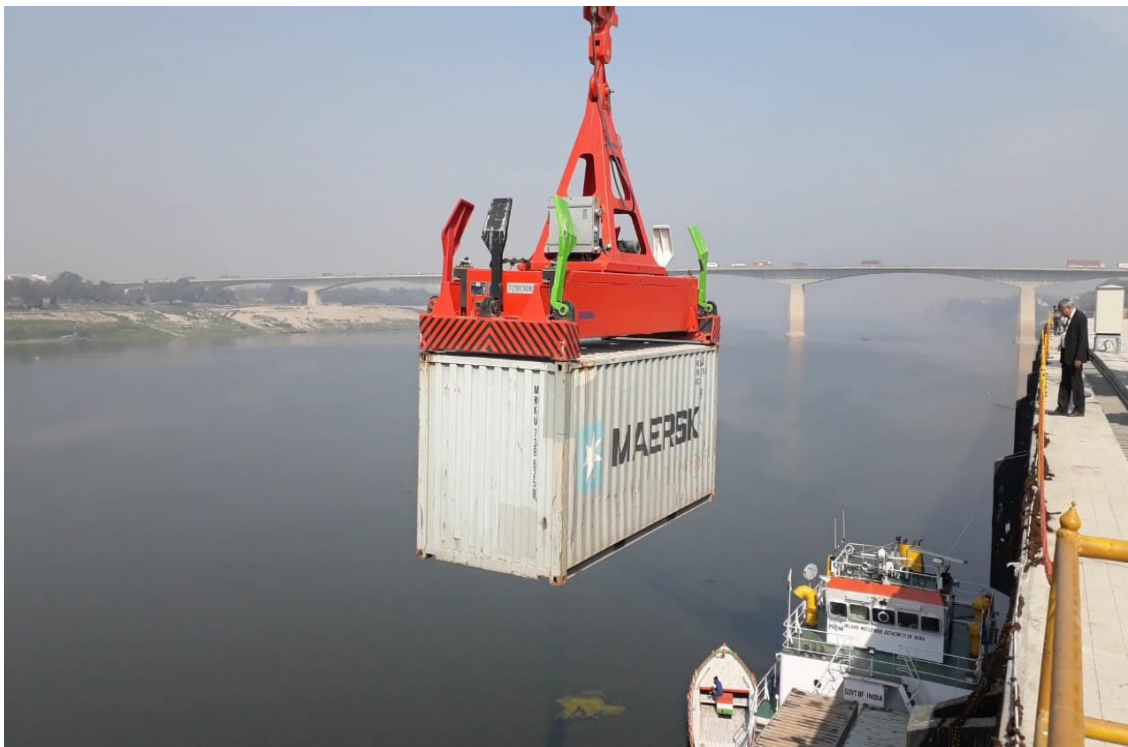


अंतर्देशीय जल परिवहन के आँकड़े  
STATISTICS OF INLAND WATER TRANSPORT  
2023-24



सत्यमेव जयते

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

अंतर्देशीय जल परिवहन के आँकड़े  
**STATISTICS OF INLAND WATER TRANSPORT**  
**2023-24**



सत्यमेव जयते

---

भारत सरकार  
**Government of India**  
पत्तन, पोत परिवहन और जलमार्ग मंत्रालय  
**Ministry of Ports, Shipping and Waterways**  
परिवहन अनुसंधान प्रभाग  
**Transport Research Wing**  
नई दिल्ली  
**New Delhi**

टी.के.रामचन्द्रन  
T.K.Ramachandran



सचिव  
SECRETARY  
भारत सरकार  
GOVERNMENT OF INDIA  
पत्तन, पोत परिवहन और  
जलमार्ग मंत्रालय  
MINISTRY OF PORTS,  
SHIPPING AND WATERWAYS

## PREFACE

“Statistics of Inland Water Transport” is an Annual Publication of Ministry of Ports, Shipping and Waterways. The present publication is the 31<sup>th</sup> issue in the series and gives information on various facets of Inland Water Transport (IWT).

The annual publication reflects the current status of Inland Water Transport in the country for the year 2023-24. The present issue contains updated data divided into 6 sections covering Navigable waterways and infrastructure, Cargo movement on waterways, commodity/route wise cargo movement, IWT activities across States/UTs, IWT activities undertaken by private sector companies, Plan outlays/expenditure for IWT sector and accidents related to inland waterways. For the first time a section on Time Series Data has been added to this publication (Section 7).

I am sure that this publication will serve as the backbone for monitoring the developments and progress made by India in IWT sector 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 compliment the efforts made by the officials in TRW in bringing out this edition in time.

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

  
(T.K. Ramachandran)

New Delhi  
March, 2025



परिवहन भवन, 1, संसद मार्ग, नई दिल्ली-110001, भारत  
टेलि.: +91 11 23714938, फैक्स : +91 11 23716656, ई-मेल : secyship@nic.in  
Transport Bhawan, 1, Parliament Street, New Delhi-110001, INDIA  
Tel. : +91 11 23714938, Fax : +91 11 23716656, E-mail : secyship@nic.in

## **Officers involved in this Publication**

\*\*\*\*\*

**Shri Kamala Kanta Nath**  
**Adviser (Statistics)**

**Ms. Mohita Aswal**  
**Deputy Director**

**Shri Abhishek Choudhary**  
**Economic Officer**



# LIST OF CONTENTS

## CONTENTS

SI No.	Sections	Page No.
1	INLAND WATERWAYS TRANSPORT - AN OVERVIEW	1-32
2	SECTION – 1: NAVIGABLE WATERWAYS & INFRASTRUCTURE	33-44
3	SECTION – 2: CARGO MOVED ON VARIOUS WATERWAYS	45-65
4	SECTION – 3: IWT ACTIVITIES - STATE-WISE	66-67
5	SECTION – 4: IWT ACTIVITIES - PRIVATE COMPANIES/PUBLIC UNDERTAKINGS	68-75
6	SECTION – 5: PLAN OUTLAY & EXPENDITURE FOR IWT SECTOR	76
7	SECTION – 6: INLAND WATERWAYS TRANSPORT ACCIDENTS	77
8	SECTION – 7: TIME SERIES STATISTICS	78-80
9	ANNEXURES – I, II	81-98
10	APPENDIX	99

## LIST OF TABLES

SI No.	Tables	Page No.
1	Table 1.1 : Navigable Waterways in India during 2023-24	33-37
2	Table 1.2 : Infrastructure Facilities Available on National Waterways (As on 31.03.2024)	38-41
3	Table 1.3 : Infrastructure Facilities Available on State Waterways (As on 31.03.2024)	42-44
4	Table 2.1 : Cargo Movement on National Waterways during 2021-22, 2022-23 & 2023-24	45
5	Table 2.2 : Details of Cargo Moved on National Waterways during 2023-24	46-65
6	Table 3.1 : Number of IWT Vessels with valid Certificate of Survey - By Type from 2022 to 2024	66
7	Table 3.2 : Number of Passengers Carried By Inland Water Vessels from 2020 to 2024	67
8	Table 4.1 : IWT Vessels with valid Certificate of Survey -Owned by Responding Private Companies/Public Undertakings - By Type from 2022 to 2024	68-71
9	Table 4.2 : Cargo/Passengers Carried and Freight Collected - By Responding Private Companies/Public Undertakings from 2022 to 2024	72-75
10	Table 5.1 : Year Wise Financial Performance of IWT Sector from F.Y. 2021-22 to 2024-25	76
11	Table 6.1 : No. of Accidents, Persons Injured and Killed by Drowning (Boat Capsize) during 2022	77
12	Table 7.1 : Trend in Total Cargo Movement on National Waterways	78
13	Table 7.2 : Trend in National Waterways-wise Cargo Movement	79-80

# Inland Water Transport: An Overview

## I. 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. Inland Water Transport (IWT) is functionally important in regions covered by the Brahmaputra in the North East and the Ganga in North 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. IWT has challenges like shallow water, narrow width during dry weather, siltation and bank erosion, inadequate vertical and horizontal clearances in a large number of overhead structures etc.

## II. POLICY INITIATIVES AND MILESTONES

2. Before 1950, there was no proper institutional set up for the development of IWT. During the First Plan period (1951-1956), 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 river 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 in 1986 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 (MOPSW) 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. 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 IWT. An Inland Vessel Building Subsidy Scheme was also in place since April, 2002 up to 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 (IBP) 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 -**

5. **National Waterways Act, 2016:** National Waterways Bill, 2015 for declaration of 111 (5 existing and 106 additional) waterways, was introduced in the Lok Sabha by Minister of Shipping, Road Transport and Highways on 5<sup>th</sup> May, 2015. It was passed by the Lok Sabha on 21<sup>st</sup> December, 2015, and by the Rajya Sabha on 9<sup>th</sup> March, 2016. It commenced from 12<sup>th</sup> April, 2016. 111 (106 new and 5 Existing) NWs were declared spread over 24 States increasing the total length of NWs from 4,382 km to 20,187 km.

The National Waterways Act, 2016, superseded five earlier Acts that declared specific NWs. The following are the Acts replaced by the National Waterways Act, 2016÷.

- i. National Waterway (Allahabad-Haldia Stretch of the Ganga Bhagirathi-Hooghly River) Act, 1982
- ii. National Waterway (Sadiya-Dhubri Stretch of Brahmaputra River) Act, 1988
- iii. National Waterway (Kollam-Kottapuram Stretch of West Coast Canal and Champakara and Udyogamandal Canals) Act, 1992
- iv. National Waterway (Talcher-Dhamra Stretch of Rivers, Geonkhali-Charbatia Stretch of East Coast Canal, Charbatia-Dhamra Stretch of Matai River and Mahanadi Delta Rivers) Act, 2008

v. National Waterway (Kakinada-Puducherry Stretch of Canals and the Kaluvelly Tank, Bhadrachalam-Rajahmundry Stretch of River Godavari and Wazirabad-Vijayawada Stretch of River Krishna) Act, 2008

**6. Inland Vessels Act, 2021:** The Inland Vessels Act, 2021, was introduced in the Lok Sabha in July 2021 and passed by both houses of the Parliament by 2<sup>nd</sup> August, 2021. It replaced the Inland Vessels Act, 1917, aiming to modernize and streamline the regulatory framework for IWT in India. The Act was notified on 12<sup>th</sup> August, 2021, with different sections coming into force on 16<sup>th</sup> February, 2022 (Section 1 and Section 106) and 7<sup>th</sup> 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 framed and published in Gazette of India in June 2022. Inland Vessels (Design and Construction) Rule 2024 and Inland Vessels (Central Database) Rule, 2024 have been notified recently.

### **III. INLAND WATERWAYS AUTHORITY OF INDIA (IWAI)**

7. IWAI, was set up on 27<sup>th</sup> October 1986, under the Inland Waterways Authority of India Act, 1985, is entrusted with the regulation and development of Inland Waterways for the purpose of inland shipping and navigation. The important functions of IWAI are:

a) To Carry out surveys and investigations for the development, maintenance and better utilization of the 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.

#### **Inland Water Transport: A Historical Perspective**

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

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

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

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

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

## **IV. NAVIGABLE WATERWAYS & INFRASTRUCTURE**

8. 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 2023-24 are given in Table 1.1



(Section 1). The details of infrastructure facilities available on state waterways as on 31.03.2024 are given at 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 6367 km followed by West Bengal with 4741.1 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.

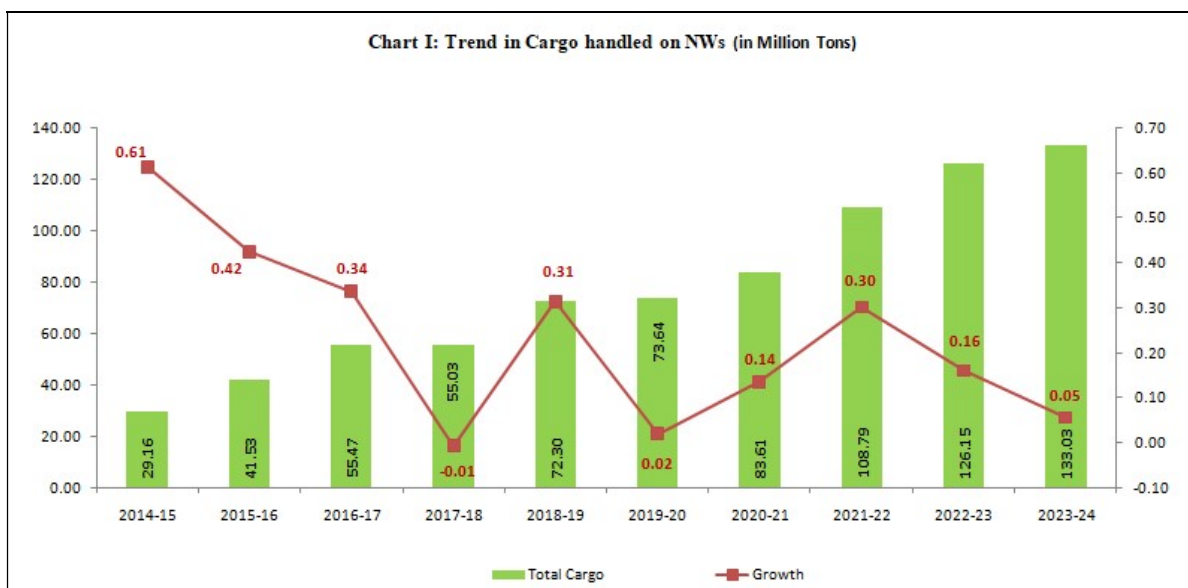
As per the available data presented in Table 1, it is observed that the ratio of navigable length to the total length is about 100% each for the States of Nagaland and Jharkhand; by contrast, in case of Andhra Pradesh the ratio of navigable length to total length is 30.83%. Other States with good IWT prospects are West Bengal, Goa and Bihar where waterways navigable length is 96.88%, 90.88% and 78.95% respectively of the total length of rivers/canals/lakes reported by these states. Total length of rivers in the States as reported is 29266.78 Km of which 55.03% is navigable length.

<b>Table 1 : Total and Navigable Length of Waterways in different States–in 2023-24 (in Kms)</b>				
<b>S. No.</b>	<b>State</b>	<b>Total Length of the Rivers/ Canals/ Lakes (Km.)</b>	<b>Navigable Length (Km.)</b>	<b>Percentage of Navigable Length to Total Length</b>
1	Andhra Pradesh	3761.73	1159.73	30.83
2	Assam	6367	2010.23	31.57
3	Bihar	1334.84	1053.84	78.95
4	Goa	274.00	249.00	90.88
5	Jharkhand*	95.00	95.00	100.00
6	Karnataka	2902.00	1215.00	41.87
7	Kerala	2881.01	2004.21	69.57
8	Maharashtra	910.35	712.93	78.31
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	2665.46	829.68	31.13
14	West Bengal	4741.1	4593.1	96.88
	<b>Total</b>	<b>29266.78</b>	<b>16103.67</b>	<b>55.02</b>
<b>Source :</b> State Governments				
* Data not reported for the year 2023-24.				

## **V. CARGO MOVEMENT ON MAJOR WATERWAYS**

9. Proactive approach towards Cargo Movement on NWs by MOPSW and all stakeholders has contributed significantly over the years. A close view of the time series data shows an increasing trend in volume of total cargo movement on the NWs over the years with 0.36 MT in 1990-91 to 22.23 MT in 2000-01, 74.30 MT in 2010-11, 83.61 in 2020-21. In 2023-24 total cargo movement

on NWs was 133.03 MT. The time series data may be seen at Section 7 (page 78). Chart I shows trend in cargo handled on NWs for the past 10 years.



10. Table 2 provides a snap view of cargo moved on the NWs, waterways of Goa, Maharashtra & Gujarat which carry most of the cargo traffic on India's Inland Waterways. The total cargo movement on waterways comprising the NWs and NWs in the State of Goa, Maharashtra & Gujarat was 1330.31 Lakh tonnes in 2023-24 as against 1261.49 lakhs tonnes in 2022-23, reflecting an increase of 5.45%.

In terms of tonne km (movement of one tonne of cargo over a distance of one km) there was a increase by 9.56% in 2023-24 over 2022-23 and cargo carried on Indian Waterways is 34.14 tonne km. Goa, Maharashtra and Gujarat waterways though accounted 77.95% of the total cargo movement on inland waterways across India, their share was only 31.46 % in terms of tonne km.

S. No.	Details of Waterway	Cargo Moved ( Lakh Tonnes)			Tonne Kms (In Lakh )		
		2021-22	2022-23	2023-24	2021-22	2022-23	2023-24
1	NW No. 1	109.28 (10.04)	131.70 (10.44)	128.24 (9.64)	20082.07 (53.30)	18703.99 (45.12)	16554.28 (36.45)
2	NW No. 2	4.28 (0.39)	6.30 (0.50)	5.89 (0.44)	74.38 (0.20)	106.67 (0.26)	151.63 (0.33)
3	NW No. 3	16.95 (1.56)	32.28 (2.56)	32.93 (2.48)	179.19 (0.48)	213.19 (0.51)	194.94 (0.43)
4	NW No. 4	112.34 (10.33)	84.18 (6.67)	43.03 (3.23)	316.47 (0.84)	295.22 (0.71)	190.66 (0.42)
5	NW No. 5	0.15 (0.01)	4.03 (0.32)	6.35 (0.48)			95.06 (0.21)
6	NW No. 8		0.34 (0.03)	0.36 (0.03)			5.79 (0.01)
7	NW No. 9		0.17 (0.01)	0.22 (0.02)			4.79 (0.01)

8	NW No. 14			0.01 (0.00)			0.07 (0.0)
9	NW No. 16	0.05 (0.00)	0.11 (0.01)	0.03 (0.00)			0.01 (0.00)
10	NW No. 23		0.30 (0.02)	0.25 (0.02)			1.21 (0.00)
11	NW No. 31			0.07 (0.01)			56.97 (0.13)
12	NW No. 44	8.18 (0.75)	4.63 (0.37)	4.84 (0.36)			362.08 (0.80)
13	NW No. 64	0.15 (0.01)	4.50 (0.36)	6.71 (0.50)			94.01 (0.21)
14	NW No. 86	0.01 (0.00)	0.88 (0.07)	0.99 (0.07)			54.82 (0.12)
15	NW No. 94			11.61 (0.87)			273.41 (0.60)
16	NW No. 97	61.03 (5.61)	54.73 (4.34)	51.85 (3.90)	10160.54 (26.97)	9202.31 (22.20)	13089.32 (28.82)
	Sub Total NWs	312.42 (28.72)	324.14 (25.70)	293.39 (22.05)	30812.65 (81.78)	28521.39 (68.81)	31129.04 (68.54)
17	Goa Waterways	45.78 (4.21)	29.29 (2.32)	35.21 (2.65)	2155.39 (5.72)	1587.47 (3.83)	1626.72 (3.58)
18	Maharashtra Waterways	436.06 (40.08)	631.49 (50.06)	686.56 (51.61)	1592.35 (4.23)	8177.97 (19.73)	9092.80 (20.02)
19	Gujarat Waterways	293.67 (26.99)	276.57 (21.92)	315.14 (23.69)	3117.61 (8.27)	3163.83 (7.63)	3566.75 (7.85)
	<b>Grand Total</b>	<b>1087.93</b>	<b>1261.49</b>	<b>1330.31</b>	<b>37678.00</b>	<b>41450.66</b>	<b>45415.31</b>
Source: Inland Waterways Authority of India.							
Note :							
1. Cargo handled in Kolkata-Bangladesh-Kolkata route is included in the traffic on NW-1. The route is a link between NW-1 & NW-2 through Bangladesh							
2. Figure within brackets indicates percentage to the total.							

## VI. NATIONAL WATERWAYS

<p><b>Criteria for declaration of NW</b></p> <ul style="list-style-type: none"> <li>It should possess capability of navigation by mechanically propelled vessels of minimum 300 tonnes (DWT) capacity (45m x 8m x 1.2m);</li> <li>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;</li> <li>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</li> <li>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.</li> </ul>
---

## INDEX OF WATERWAYS

[illegible]

Particulars	Stretch
Indulgent/Indulgent/Indulgent/Indulgent	Yakima - Puyallup
	Calgary - Vancouver
	Denver - Portland
	Toronto - Seattle
Indulgent/Indulgent/Indulgent/Indulgent	Yakima - Seattle
	Calgary - Vancouver
	Denver - Portland
	Toronto - Seattle

Particulars	Stretch	Distance in ft.
Start	Start	0
1st	1st	100
2nd	2nd	200
3rd	3rd	300
4th	4th	400
5th	5th	500
6th	6th	600
7th	7th	700
8th	8th	800
9th	9th	900
10th	10th	1000

Legend

Legend:

	Forest Reserve		Water body		VIA Head Office		Disturbed Office
	Forest		International boundary		Major fire		Impassement of State
	Green		Indo-Bangladesh protocol zone		Political		Capital of country
	Coast		State boundary		Proposed Reserve		Sanitation Reserve/Free

11. A list of all the NWs with its length is given in **Annex-1**. The list of pre-2016 NWs is given below-

- (a) Ganga-Bhagirathi-Hooghly river system Allahabad-Haldia stretch (1620 kms) was declared NW- 1 in 1982 and effective in October, 1986.
- (b) Brahmaputra River Sadiya-Dhubri stretch (891 kms) was declared NW- 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 NW- 3 in February, 1993.(Total 205 kms)
- (d) Kakinada- Pondicherry canals along with Godavari and Krishna rivers (1078 km) –was declared NW-4 in 2008 and
- (e) East Coast Canal integrated with Brahmani river and Mahanadi delta rivers (588 km) declared as NW-5 in 2008.

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

13. NWs of India are well in line to become the lifeline of the country. IWT has a potential to supplement the overburdened Railways and congested Roadways. In addition to cargo movement, NWs may provide support in related activities such as carriage of vehicles (in Roll-on-Roll-off mode of cross-ferry) and Tourism including accommodation and entertainment.

14. Infrastructure facilities provided by IWAI in the existing NW 1 (Ganga, Bhagirathi-Hooghly river system), NW-2 (Brahmaputra river) and NW-3 (West Coast Canal, Champakara Canal & Udyogmandal Canal in Kerala) are detailed at **Annex-II**.

## **VII. DEVELOPMENT OF 106 NEW NATIONAL WATERWAYS**

15. Efforts initiated towards undertaking the developmental activities for providing safe fairway channel and creating infrastructures, in phased manner on the identified new NWs from 2016-17.

### **Status of 106 new NWs**

I. Feasibility Reports (FRs) and the (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:

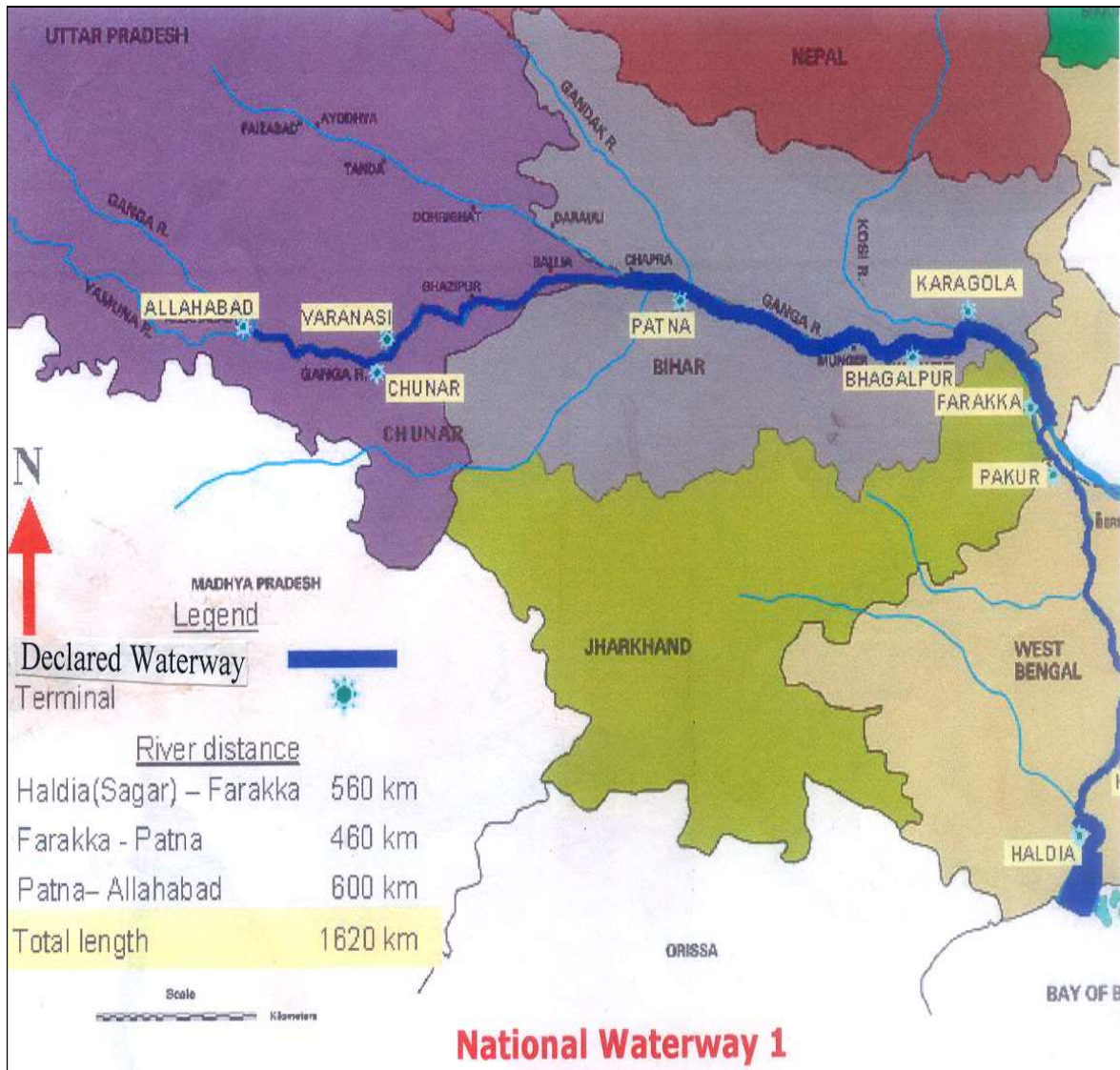
<b>S. No.</b>	<b>Category</b>	<b>NWs</b>
1	Category 'A': Feasible NWs with Cargo	18 NWs: NW-9, 10, 16, 27, 68, 111, 25, 28, 37, 40, 44, 73, 85, 86, 97, 100, 57 & 94 (refer Annex-I)
2	Category 'B': Feasible NWs with only Tourism potential/ Ferry/ Cruise	25 NWs: NW- 6, 7, 8, 14, 15, 18, 20, 23, 24, 29, 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 existing 5 NWs as detailed in Para 8 above, new NWs 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)



## NW-1 (Ganga-Bhagirathi-Hooghly)



16. Since its declaration as NW-1 (NW-1) in 1986, IWAI is carrying out various developmental works on this 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).

17. The volume of freight movement on NW-1 was 128.24 lakh tonnes in 2023-24 against 131.7 lakh tonnes in 2022-23 reflecting a decrease of 2.63 %.

18. Composition of cargo movement on NW-1 over the years is shown in Table 3. The cargo constituted 63.06% mix cargo on NW-1 followed by 34.55% Building material (constituting Fly ash, stone chips etc.) and 1.91% POL/POL products. These three items together accounted for about 99.52 % of the total cargo moved on NW-1 during 2023-24.

<b>Table 3: Composition of Cargo Moved on NW- 1 (in Tonne)</b>						
<b>Name of the Commodity</b>	<b>2018-19</b>	<b>2019-20</b>	<b>2020-21</b>	<b>2021-22</b>	<b>2022-23</b>	<b>2023-24</b>
Building Material	4478790 (61.0)	4650148 (51.0)	4816082 (52.3)	4204484.6 (38.5)	4057611.38 (30.81)	4431227.68 (34.55)
Fertilizers	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
Food items	260 (Neg.)	5134 (0.1)	105743.47 (1.1)	162372.71 (1.5)	19716.09 (0.2)	2816.30 (0.02)
Miscellaneous	5323 (0.1)	2162514 (23.7)	1341447 (14.6)	2998008.92 (27.4)	3741221.23 (28.4)	50965.68 (0.40)
Mix	2854087 (38.8)	2269124 (24.9)	2935470 (31.9)	3524447.77 (32.3)	5073877.74 (38.5)	8087374.09 (63.06)
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)	251000 (1.9)	245000 (1.91)
Coal	924 (Neg.)	9409 (0.1)	0 (0.0)	15542.61 (0.1)	10565.65 (0.1)	1251.88 (0.01)
Iron steel	9946 (0.1)	16068 (0.2)	7222.202 (0.1)	22931.39 (0.2)	15860.91 (0.1)	5476.37 (0.04)
<b>Total</b>	<b>7349330</b>	<b>9112397</b>	<b>9205965</b>	<b>10927788</b>	<b>13169853</b>	<b>12824112</b>
Source: Inland Waterways Authority of India 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

### Indo-Bangladesh Protocol for Inland Water Transport

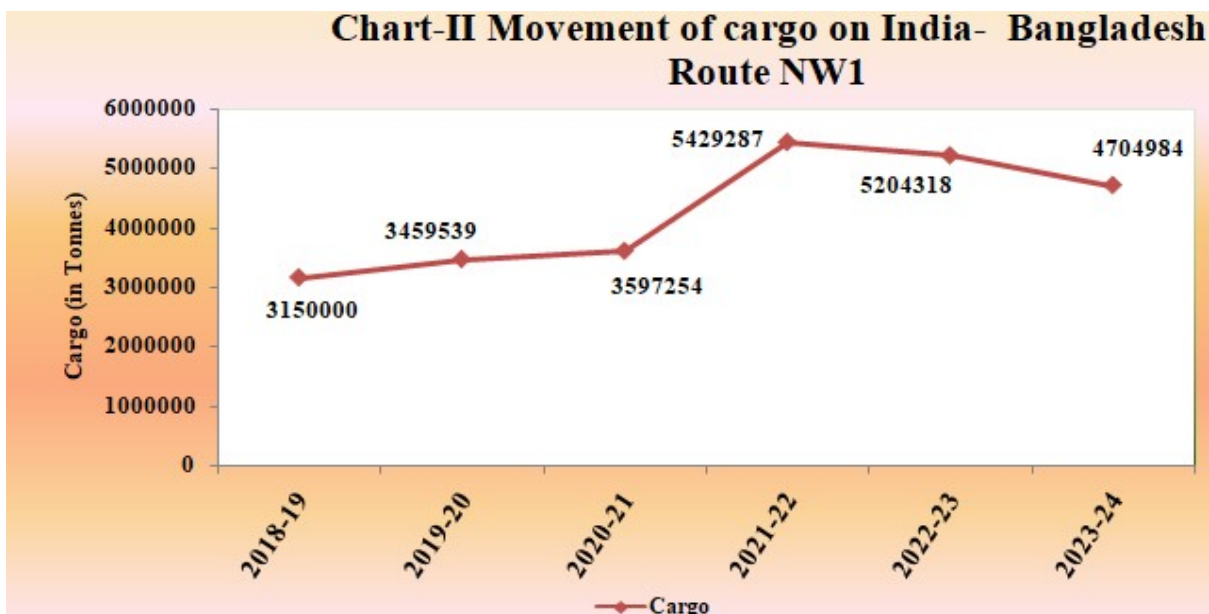
A Protocol on Inland Water Transit & Trade (PIWT&T) between India and Bangladesh has been in existence since 1972 facilitating movement of inland cargo vessels of one country on designated routes of other country for transit & trade of goods through inland waterways. For making the Protocol more effective, many landmark decisions were taken in the last two (19<sup>th</sup> and 20<sup>th</sup>) Standing Committee Meeting on PIWT&T and Secretary Shipping Level Talks held in New Delhi and Dhaka. These decisions are given effect with the signing of 2nd addendum under PIWT&T. New Indo-Bangladesh Protocol Route (IBP 9 and 10) Sonamura to Daudkandi, six new Ports of Call and two Extended Ports of Call have introduced. The new Ports of Calls included in the PIWT&T have indicated 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	--

The protocol permits vessels of either country to carry Indo-Bangladesh cargo and prohibits one country's vessels carrying intra- country traffic of the other. Bangladesh vessels are permitted to carry Indian domestic cargo transiting through Bangladesh from Kolkata, Haldia to North East and vice-versa.

**19.** Movement of cargo along IBP route has shown decline of 9.56% in year 2023-24 over that in 2022-23. The cargo moved over this route has decreased to 47.05 lakh tonnes in 2023-24 against 52.04 Lakh tonnes in 2022-23 (Table 4).

**20.** Chart II depicts trend in cargo movement on India-Bangladesh route (NW-1) during the years 2018-19 to 2023-24.



21. Table 4 shows the cargo and the main commodities carried on IBP route on NW-1 during 2018-19 to 2023-24.

Route	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	Commodities
India to Bangladesh	31,50,000	34,59,539	35,97,254	54,29,287	5204318	4704984	Stone Aggregates, Coal, Food Products, Others and Fly Ash
<b>Total</b>	<b>31,50,000</b>	<b>34,59,539</b>	<b>35,97,254</b>	<b>54,29,287</b>	<b>5204318</b>	<b>4704984</b>	

Source: Inland Waterways Authority of India

### **Jal Marg Vikas Project:**

22. IWAI is the implementing agency for Jal Marg Vikas Project (JMVP) for capacity augmentation of NW-1 from Haldia to Varanasi (1390 km stretch) with technical assistance and financial support from the World Bank. JMVP on NW-1 from Haldia to Varanasi was approved by the CCEA on 3rd January, 2018 at a cost of Rs.5369.18 crore (US\$ 800.00 million). The loan agreement with the World Bank was signed on 2<sup>nd</sup> February, 2018. The project cost was finally revised to Rs.5061.15 cr. The project has been granted an extension for implementation up to December 2025.

23. Under JMVP the major Engineering, Procurement and Construction (EPC) contracts are near completion. MMT Varanasi, MMT Sahibganj, MMT Haldia and New Navigational Lock have

been inaugurated by Hon'ble Prime Minister on 12.11.2018, 12.09.2019, 13.01.2023 and 17.10.2023 respectively. IMT Kalughat has been inaugurated by Hon'ble Minister of Ports, Shipping and Waterways on 15.02.2024.

**I.** The objective of JMVP is to improve navigability of NW-1 on Haldia-Varanasi stretch of Ganga- Bhagirathi-Hooghly river system by fairway development to provide an assured depth of 2.2 meters 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.

**II.** The statistics on the yearly capital expenditure incurred for the development of infrastructure for capacity augmentation of NW-1 under JMVP is given below:

<b>Year</b>	<b>Expenditure (in Cr.)</b>
2014-15	2.78
2015-16	141.52
2016-17	301.92
2017-18	348.53
2018-19	430.93
2019-20	460.02
2020-21	210.80
2021-22	222.11
2022-23	317.33
2023-24	513.24

Source: Inland Waterways Authority of India

**III.** As on March 2024, the total capital expenditure incurred during implementation of JMVP is Rs.2944.71 cr. against the estimated project cost of Rs.5061.15 cr. The capital expenditure breakup incurred till date (component wise) is given below.

<b>Components</b>	<b>Expenditure (in Rs. Crore)</b>
Incremental Operating	91.98
Cost escalation	159.81
IWT promotion	3.29
Soft Cost	160.32
Vessel	12.74
Navigational Lock Gate	359.38
Terminal Development	1551.82
RIS & Navigational Aids	22.8
Fairway Development	582.57

Source: Inland Waterways Authority of India

**IV** JMVP is aims at developing river Ganges as a commercially sustainable and safe mode for navigation of IWT vessels. JMVP in first phase (JMVP-I), creates large scale IWT infrastructures i.e. Multimodal Terminals, Navigational Lock Gate, Fairway development, Vessel & Dredger

procurement, Bandalling, channel marking, river conservancy & training works, bend correction, shore protection and aids to navigation, RIS stations etc. whereas the Arth Ganga program i.e. JMVP II has focused for anchoring the local communities, river hinterland beneficiaries and other small stakeholders for sustainable development of IWT. The efficient logistics ecosystem and reliable IWT transport facility factored as crucial enabler for sustaining accelerated economic growth along river Ganga hinterland.

**JMVP-II (Arth Ganga):** JMVP-II (Arth Ganga) is developed on an approach based on the principles of sustainable development model to energize economic activities. This is proposed to have an impact on overall ecosystem along the riverbanks. The interventions under JMVP-II (Arth Ganga) will provide logistics solutions for small farmers, fishery units, unorganized farm producing units, horticulturists, florists and artisans to reach the nearest market place, which would steer a massive economic revolution in the region generating substantial employment. Following are the major initiatives under this project:

1. Development of Cluster 1 – a cluster at Uttar Pradesh
2. Development of Cluster 2 – a cluster at Bihar & Jharkhand
3. Development of Cluster 3 – a cluster of community jetties in West Bengal
4. Construction of 1 pair of Ro-Ro terminals – clearance from Bihar State Government related to Dolphin sanctuary is awaited
5. Supply and commissioning of FRP (12 nos.) and Inspection Boats (03 nos.)
6. Construction of 4 numbers of inspection VIP boats
7. O&M and CAMC of River Information System (RIS - in progress through outsource agency
8. Modernization of Navigation Lock at Farakka

The progress of various components of JMVP-II (Arth Ganga) program is summarized under various sub-sections:

### **Fairway Development**

This includes improving and maintaining the river fairway to reduce transit time and increase reliability. Components include comprehensive studies, river conservancy works, and mechanization of pontoon bridge openings to facilitate vessel movement. River conservancy works cover multiple locations along NW-1(Kolkata – Farakka, Kahalgaon – Sultanganj, Barh – Digha,



Digha – Majhaua, Majhaua – Ghazipur and Ghazipur - Varanasi). The Centre for Inland and Coastal Maritime Technology (CICMT) at IIT Kharagpur has developed a Quick Pontoon Opening Mechanism (QPOM) to reduce transit time, with initial fabrication at two pilot locations.

### **Development and modernization of Community Jetties**

The project includes developing and modernizing around 60 community jetties along Ganga in Uttar Pradesh, Bihar, Jharkhand, and West Bengal. This includes:

Offshore Floating Jetties: Anchored to the riverbank with floating pontoons and gangways for safe passenger movement.

Completed: 11 in Uttar Pradesh, 23 in Bihar and Jharkhand, 15 in West Bengal.

Ongoing: 4 in Uttar Pradesh, 7 in West Bengal.

- Onshore Terminal Facilities: Terminals with waiting areas, ticketing rooms, security offices, administrative spaces, pantry and storage spaces, public toilets, and parking. Accessible by road, electricity, water supply, and wastewater disposal systems.

Ongoing: 10 in Uttar Pradesh, 8 in Bihar, 8 in West Bengal.

These efforts aim to reduce logistics costs and improve facilities for commuters and local producers along the Ganga.

### **Channel Stabilization Works on NW-1**

Eco-friendly channel stabilization works are being undertaken to maintain the navigable channel using bamboo submerged vanes, balli screens, and vetiver grass to deepen the main channel and strengthen riverbanks. The works will be done in two phases:

- Phase I: Execution at seven locations (Mathara D/S Zamania, Chhatarpur, Raghunathpur, Ghazipur-Khalishpur, Arjunpur, Srirampur, and Haldi) was started in June 2022 and completed in August 2022 under IIT Roorkee's supervision.

- Phase II: Identification and design for 15 locations completed by IIT Roorkee, with work awarded for nine locations and tenders published for the remaining six locations.

### **Ro-Pax Terminals**

Ro-Pax terminals are planned to be established on NW-1 to improve logistics, boost economic activities, and create employment opportunities within local communities.

## **O&M and Comprehensive AMC (CAMC) for RIS and Ship Stations on NW- 1**

The project includes O&M of seven RIS stations and CAMC of 30 ship stations. CAMC for the Farakka-Patna stretch of NW-1 is also in progress.

## **Hydrographic Equipment, Automatic tide gauge, survey boats with ENC, IWN and river pilot agency**

This component includes water level discharge and monitoring stations, procurement of FRP and inspection (VIP) boats, survey equipment, AIS equipment, and bank-to-bank surveys. Most of the works have been completed, with AIS equipment works in progress.

## **Modernization and renovation work of existing Navigational Lock at Farakka**

DPR for modernization of the existing navigational lock at Farakka prepared, and EPC works awarded.

## **Quick Pontoon Opening Mechanism**

Ten QPOMs are planned at different locations. The pilot project at two locations (one in U.P. and one in Bihar) has been successfully completed. For the remaining eight, locations it is in process.

These efforts aim to improve navigation and logistics on NW-1, promoting economic growth and sustainability along the river.

## **V. JMVP Physical Progress:**

Considering revised cost of Rs.5061.15 cr.

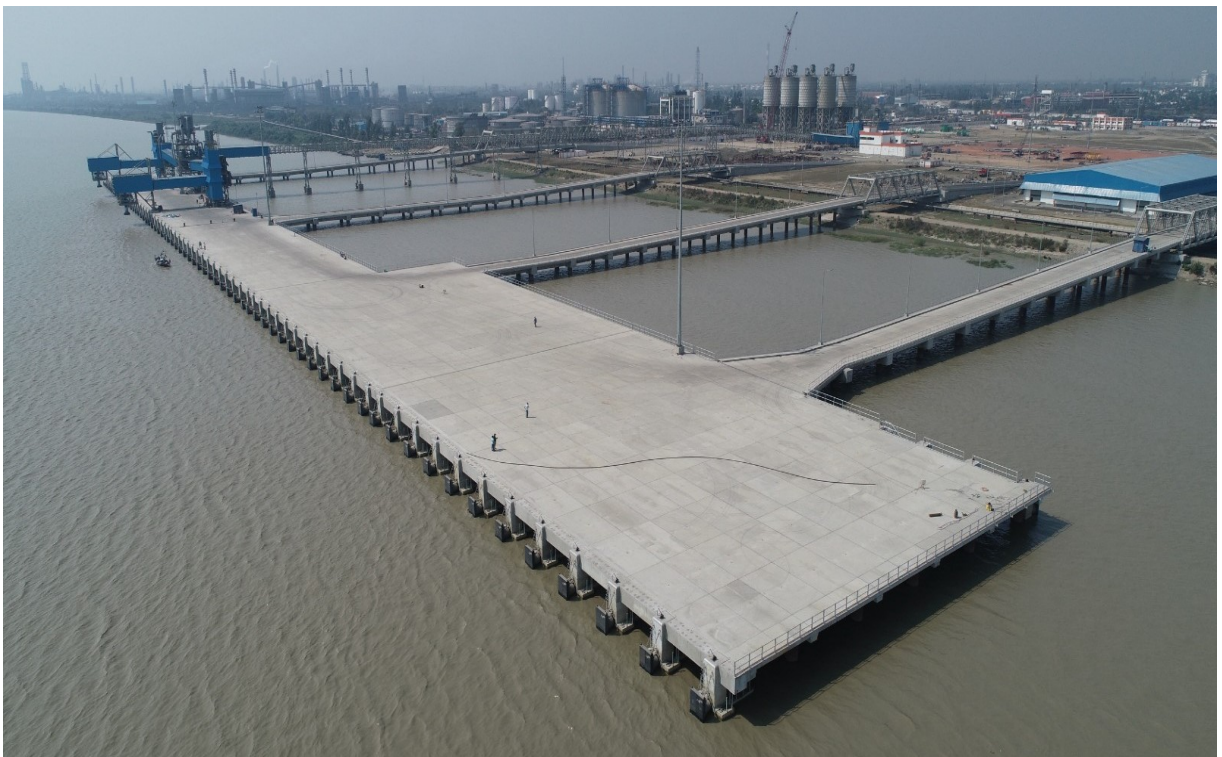
- i. Physical Progress is 61.79%
- ii. Financial Progress is 61.57%

## **VI. Status of Major Works:**

- Constructions of Multi-Modal Terminals at Varanasi, Sahibganj and Haldia have been completed.



Varanasi Multi-Modal Terminal



Haldia Multi-Modal Terminal



Sahibganj Multi-Modal Terminal

- Navigational Lock at Farakka have achieved physical progress of 99.49 % and the project has been inaugurated by Hon'ble Prime Minister on 17.10 2023.



Navigational Lock at Farakka



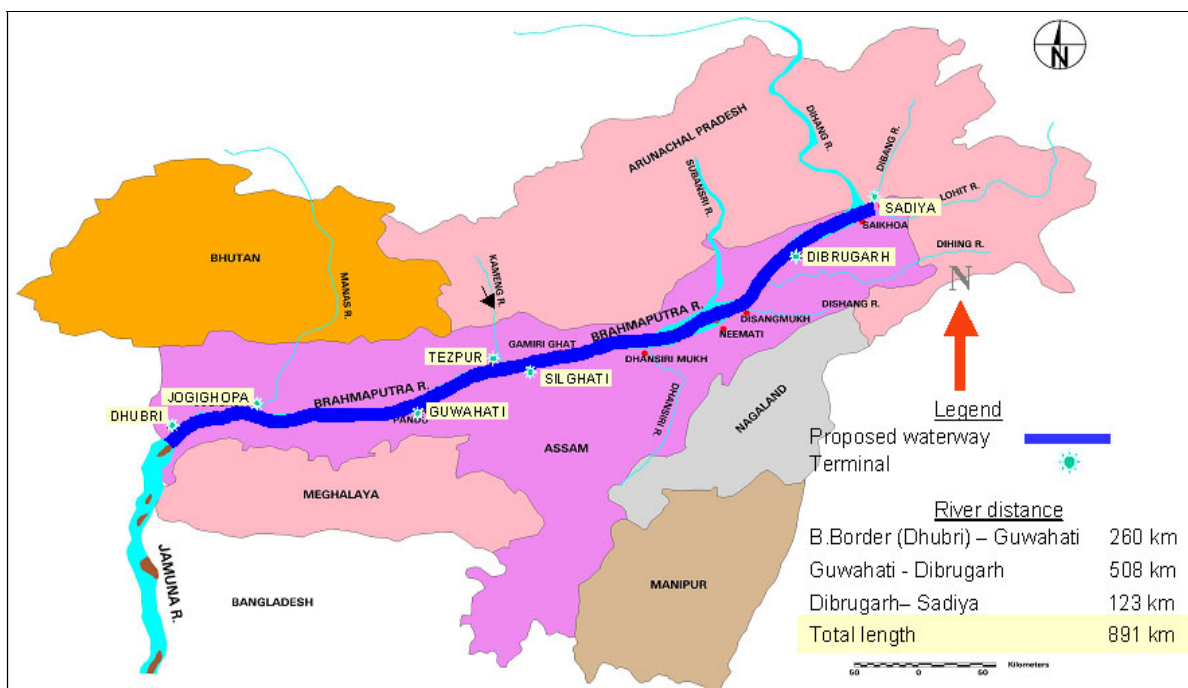
- Intermodal Terminal at Kalughat have achieved physical progress of 100% and the project has been inaugurated by Hon'ble Prime Minister on 15.02.2024



Kalughat Intermodal Terminal

- The status of fairway development:
  - Out of total 11 stretches, work awarded for 10 stretches from Ghazipur to Haldia for contract based dredging.
  - 49 out of 60 community jetties have been commissioned. Work for the remaining jetties is under progress.

## National Waterways - 2



24. Brahmaputra river from Dhubri (Bangladesh Border) to Sadiya (891 km) was declared as NW -2 in 1988. For development of NW 2 a revised SFC at a cost of Rs 474 crore for the period from 2020-21 to 2024-25 is approved.

- i. Under approved SFC, there are 18 activities. Out of these 18 activities, 6 are of permanent nature namely, (i). Construction of Jogighopa terminal, (ii). Alternative Road to Pandu Port, (iii). Ship repair facility at Pandu (iv). Construction of Cargo cum Passenger terminal at Bogibeel, Dibrugarh (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.
- ii. 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 Oriumghat/Sadiya (123km) is being maintained with day and night navigational aids and terminals at strategic locations. The development of NW-2 enables waterway connectivity of NER with Kolkata/Haldia Ports via IBP Route.



### **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
- Project completed and inaugurated by Hon'ble Minister of Ports, Shipping and Waterways on 18<sup>th</sup> February, 2025.

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

- M/s Indian Port Ropeway Rail Corporation (IPRCL) has been entrusted with the construction work on deposit work basis.
- An agreement with IPRCL signed on 18.01.2023.
- Besides above following additional work are also assigned to IPRCL
- Bank Protection work at a cost of Rs 4.24 cr (incl DPR+FSR+PMC+GST).
- Extension of Jetty at a cost of Rs 23.52 cr (incl PMC+GST).
- Office building at a cost of Rs 8.87 cr (incl PMC+GST).

Tendering process for above works has been initiated by IPRCL.

#### **iv) Fairway development:**

DCI has been engaged for ensuring required fairway on NW-2, expenditure of Rs.303.86 Cr out of approved revised cost of Rs.474.00 Cr. has been incurred.

#### **v) DIB for the development of Ship Repair facility at Pandu, Guwahati and Development of Approach Road from Pandu Port to NH-27**

Project cost Rs.388.00 crores has been approved by MOPSW on 03.01.2023.

Status of these projects are as below:

##### **A). Ship repair facility at Pandu, Guwahati, Assam (Estimated Cost approved under DIB-Rs.208 Cr.)**

Construction of ship repair facility entrusted to Hooghly Cochin Shipyard Ltd (HCSL), a subsidiary of CSL, on Deposit Work Basis.

- Agreement signed between IWAI and HCSL on 26.08.2021. Addendum - I to the Agreement signed on 16.02.2022.
- HCSL engaged NTCPCW as PMC for site investigation, finalization of Proposal, preparation of DPR, Detailed Design, and Bid Process Management etc.
- Work awarded on 31.03.2023 to M/s L & T Geostructure Pvt. Ltd., Chennai at a total cost of Rs.145.49cr.
- Project is likely to be completed in 2025.

**B). Alternative road from Pandu Port to NH-27(Estimated Cost approved under DIB-Rs.180 Cr.)**

- Work entrusted to PWD (Roads), Govt of Assam on Deposit Work Basis.
- MoU signed with PWD (Roads), Govt. of Assam on 31.08.2022.
- Work Commenced and under progress.
- Expected to complete in 2025

25. Cargo traffic on NW 2 was 5.89 lakh tonnes during 2023-24 against 6.30 lakh tonnes during 2022-23. Commodity-wise composition of cargo movement over the years on NW-2 is given below.

<b>Table 5: Cargo movement on NW - 2 (in Tonnes)</b>						
<b>Commodity</b>	<b>2018-19</b>	<b>2019-20</b>	<b>2020-21</b>	<b>2021-22</b>	<b>2022-23</b>	<b>2023-24</b>
Building Material	-	-	-	-	-	-
Food items	-	-	-	-	-	-
Miscellaneous	2871817 (100)	392767 (100)	307095 (100)	428134 (100)	629853 (100)	589489 (100)
Mix	-	-	-	-	-	-
Ore/Minerals	-	-	-	-	-	-
POL/POL Products	-	-	-	-	-	-
<b>Total</b>	<b>2871817</b>	<b>392767</b>	<b>307095</b>	<b>428134</b>	<b>629853</b>	<b>589489</b>
Source: Inland Waterways Authority of India						
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-3**

26. West Coast Canal from Kottapuram to Kollam (168 km) together with Champakara canal (14 km) and Udyogmandal canal (23 km) was declared as NW-3 in 1993. It 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 work 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.

27. The volume of cargo on NW-3 increased to 32.93 lakh tonnes in 2023-24 from 32.28 lakh tonnes in 2022-23 recording an increase of 2 %. Commodity wise composition of cargo movement over the years on this waterway is given in Table 6.

<b>Table 6 : Cargo movement on NW - 3 (in Tonnes)</b>						
<b>Commodity</b>	<b>2018-19</b>	<b>2019-20</b>	<b>2020-21</b>	<b>2021-22</b>	<b>2022-23</b>	<b>2023-24</b>
Chemicals	387002 (92.1)	540997 (99.07)	661389 (89.57)	364702 (21.52)	585882 (18.15)	424458.59 (12.89)
Fertilisers	29403 (7.0)	0 (0.0)	0 (0.0)	0 (0.0)	132447 (4.1)	24182.3 (7.3)
Food items	-	-	-	-	-	-
Miscellaneous	-	-	-	-	-	1746420.5 (53.0)
Mix	247 (0.1)	5054 (0.93)	77042 (10.43)	1218042 (71.86)	2442393 (75.67)	789189.91 (23.97)
Ore/Minerals	-	-	-	-	-	-
POL/POL products	3630 (0.9)	0 (0.0)	0 (0.0)	112289 (6.62)	67174.1 (2.08)	90651 (2.75)
<b>Total NW III</b>	<b>420282</b>	<b>546051</b>	<b>738431</b>	<b>1695033</b>	<b>3227896</b>	<b>3292543</b>
Source: Inland Waterways Authority of India						
Note: Figure within brackets indicate percentage to the total						
Mix –Liquid effluent, Building materials etc.						
Miscellaneous – Machinery, Steam Turbine, ODC Cargo, Harbour Crane and Turbine & Generator etc.						

The cargo composition of freight traffic shows that Miscellaneous (53.0%), Mix (23.97%), Chemicals (12.89%), Fertilisers (7.3%) and POL/POL products (2.75%) were the major commodities moved through NW-3 during 2023-24.

**28.** Cargo moved through all the 3 NWs decreased by 1.89% from 170.28 lakh tonnes during 2022-23 to 167.06 lakh tonnes during 2023-24. In 2023-24, share of cargo moved in volume terms across the 3 NWs i.e. NW-1, NW-2 and NW-3 has been 76.8%, 3.5%, and 19.7% respectively. In terms of tonne km, the share of NW-1, NW-2 and NW-3 are 97.9%, 0.9% and 1.2% respectively of the total tonne km moved. The highest share of NW-1 in tonne km reflect long average distance travelled by cargo of 129.08 kms compared with an average distance of 25.72 kms for NW-2 and average distance of 5.92 kms for NW-3 in the year 2023-24. Table 7 gives cargo movement NWs in tonnage and tonne km.

<b>Table 7: Cargo Movement on NW-1, 2 &amp; 3</b>							
<b>Sl. No</b>	<b>Details of Waterway</b>	<b>Cargo Moved ( Lakh Tonnes)</b>			<b>Tonne Kms (In Lakh )</b>		
		<b>2021-22</b>	<b>2022-23</b>	<b>2023-24</b>	<b>2021-22</b>	<b>2022-23</b>	<b>2023-24</b>
1	NW-1	109.28 (83.7)	131.70 (77.3)	128.24 (76.8)	20082.07 (98.7)	18703.99 (98.3)	16554.28 (97.9)
2	NW-2	4.28 (3.3)	6.30 (3.7)	5.89 (3.5)	74.38 (0.4)	106.67 (0.6)	151.63 (0.9)

3	NW-3	16.95 (13.0)	32.28 (19.0)	32.93 (19.7)	179.19 (0.9)	213.19 (1.1)	194.94 (1.2)
	<b>Total</b>	<b>130.51</b>	<b>170.28</b>	<b>167.06</b>	<b>20335.64</b>	<b>19023.86</b>	<b>16900.85</b>
Source: Inland Waterways Authority of India Note : Cargo handled in Kolkata-Bangladesh-Kolkata route is included in the traffic on NW-1. The route is a link between NW-1 and NW-2 through Bangladesh. Figure within brackets indicate percentage to the total							

29. The commodity wise composition details of the cargo moved on the NW-1, 2 and 3 taken together are given in Table 8.

<b>Table 8: Composition of Cargo Moved on NW-1,2 &amp; 3 ( in Tonnes)</b>						
<b>Commodity</b>	<b>2018-19</b>	<b>2019-20</b>	<b>2020-21</b>	<b>2021-22</b>	<b>2022-23</b>	<b>2023-24</b>
Building Material	4478790 (42.1)	4650148 (46.3)	4816082.1 (47.0)	4204485 (32.2)	4057611.4 (23.83)	4431227.7 (26.52)
Chemicals	387002 (3.6)	540997 (5.4)	657540 (6.4)	364702 (2.8)	585882 (3.44)	424458.6 (2.54)
Fertilisers	29403 (0.3)	0 (0.0)	0 (0.0)	0 (0.0)	132447 (0.78)	241823 (1.45)
Food items	260 (Neg.)	5134 (0.1)	105743.47 (1.0)	162373 (1.2)	19716.1 (0.12)	2816.3 (0.02)
Miscellaneous	2877140 (27.1)	2555281 (25.42)	1648542 (16.1)	3426142 (26.3)	4371074.1 (25.67)	2386875.2 (14.29)
Mix	2854333.9 (26.8)	2274178 (22.6)	3016369 (29.4)	4742490 (36.3)	7516270.6 (44.14)	8876564 (53.13)
Ore/Minerals	0 (0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)
POL/POL Products	3660 (Neg.)	0 (0.0)	0 (0.0)	112289 (0.9)	318174.10 (1.87)	335651 (2.01)
Coal	924 (Neg.)	9409 (0.1)	0 (0.0)	15543 (0.1)	10565.7 (2.06)	1251.9 (0.01)
Iron & Steel	9946 (0.1)	16068 (0.2)	7222.20 (0.1)	22931 (0.2)	15860.91 (0.09)	5476.37 (0.03)
<b>Total</b>	<b>10641459</b>	<b>10051215</b>	<b>10251499</b>	<b>13050955</b>	<b>17027602</b>	<b>16706144</b>
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 WATERWAY-4

30. NW-4 was declared in 2008 for the length of 1,078 km comprising of the Kakinada – Puducherry stretch of canals and the Kaluvelly Tank, Bhadrachalam – Rajahmundry stretch of river Godavari and Wazirabad – Vijayawada stretch of river Krishna in Andhra Pradesh & Tamil Nadu. With the notification of the National Waterways Act 2016, the total length of NW-4 got extended to 2,916 km by extending river Godavari up to Nasik and river Krishna up to 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 Harichandrapuram and Muktyala.

## **NATIONAL WATERWAY-5**

**31.** Mahanadi / Brahmani delta, Matai River & East Coast Canal (ECC) was declared as NW-5 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 commodities to be transported through NW-5 could be divided into three groups namely, Minerals (Coal, Iron Ore), Agricultural products (Paddy, Rice, Straw, Animal fodder, fish, Jute) and Finished goods / Manufactured products (from Kalinganagar industries, textiles and forest).

IWAI awarded the work for preparation of DPR on NW-5 to WAPCOS Ltd and DPR was submitted in March, 2010. The lengthwise distribution of NW-5 in 3 different stretches, as per the DPR is given below:

1.	Stretch I	:	Talcher to Mangalgadi	:	237 Km
2.	Stretch II	:	Dhamra to Paradip	:	95 Km
3.	Stretch III	:	Dhamra to Geonkhali	:	256 Km
	<b>Total</b>	:	<b>588 Km</b>		

Based on the feasibility studies and DPR updated on 2016 and keeping 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.

## **32. Status of development of NW-5 (as on 31.05.2024)**

IWAI appointed M/s. KPMG-HAS as Transaction Advisor for development and operationalization of NW-5 & NW-64 in PPP mode. The following actions are being taken as per directives of Committee of Secretaries (CoS):

1) Development of NW-5 (both Phase-I & II) to be under taken simultaneously. Awarded the work for vetting of cross structures on NW-5 on 10.08.2023 and work for preparation on TEFR/DPR for Phase-2 awarded to NTCPCW, IIT-M Chennai on 17.08.2023.

2) Formation of a new SPV- an existing SPV namely Inland Waterways Consortium of Odisha Limited (IWCOL) formed by Govt. of Odisha with Paradip Port Authority and Dhamra Port Company Ltd was identified. Onboarding of IWAI approved by IWCOL board

vide its 30th Board meeting, IWAI has remitted the equity due of Rs.33 lakh on 21.03.2024. Subsequent to onboarding of IWAI, Dhamra Port Company Ltd has exited the SPV. Paradip Port Authority has remitted its equity due on 01.05.2024.

## **VIII. NATIONAL INLAND NAVIGATION INSTITUTE**

**33.** National Inland Navigation Institute (NINI) was set up by IWAI at Patna, Bihar in February 2004 with a view to Develop Human Resource for IWT sector. Total 2348 trainees have been trained during 2023-24 and the major achievements of NINI during 2023-24 were as below:-

Imparting training in the disciplines: -

- Induction Training of Inland Vessel G.P. Rating.
- Preparatory Course for Serang.
- Preparatory Course for 2<sup>nd</sup> Class Master.
- Preparatory Course for 1<sup>st</sup> Class Master
- Preparatory Course for 2<sup>nd</sup> Class Engine Driver
- Preparatory Course for 1<sup>st</sup> Class Engine Driver
- Preparatory Course for Inland Vessel Engineer
- Inland Maneuvering Simulator Course.
- Personal Safety & Social responsibility for Inland Vessel
- Personal Survival Technique for Inland Vessel
- Fire Prevention & Fire Fighting for Inland Vessel
- Elementary First Aid for Inland Vessel
- Security Course for Inland Vessel Personnel
- JalayatriSahayak Course for IWT Assam Personnel
- Induction Training for Grade III for DIWT Personnel
- Surveyor Course for DIWT Personnel
- Vessel Operation & Safety Course for Govt. of Nagaland Personnel
- 12 Week Course for CRPF Personnel (Water Wing)

### **i). Training activities carried out:-**

- Induction Training G.P. Rating Course (38th & 39th Batch)
- 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.
- Master Trainer for Safe Swim under MukhyamantriBalTaranveer Programme for Govt. of Uttar Pradesh
- Basic Safety Course for Inland Vessel (PSSSR, PST, EFA,PST & SCIVP)
- JalayatriSahayak Course for IWT Sector
- SurakshitYatri Awareness Programme

**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 Maneuvering Simulator Course

**iii). Conducting Inland Vessel Examination**

- 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:**

- ISO 9001:2015 certificate by ABS Quality Evaluations renewed.
- ISO 21001:2018 certificate by AMR for Education and Training Services in Inland Water Transport and Maritime Sector
- NINI conducts the CoC (Certificate of Competency) exams in NINI Campus on behalf of Transport Department Govt. of Bihar.
- MoU signed between 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.

## IX. IWT ACTIVITIES – STATE GOVERNMENT

34. The number of vessels deployed and number of passenger carried on Inland Waterways across the reporting States is given at Table 9.

<b>Table 9: State-wise number of Inland Water Vessels and Passenger Carried</b>								
<b>State/UT</b>	<b>Number of Vessels</b>				<b>No. of Passengers Carried ( in Thousand No.)</b>			
	<b>2020-21</b>	<b>2021-22</b>	<b>2022-23</b>	<b>2023-24</b>	<b>2020-21</b>	<b>2021-22</b>	<b>2022-23</b>	<b>2023-24</b>
Assam	256	81	81	129	1979.20	4385.95	3155.38	4537.58
Bihar	68	16	16	10	N.A.	0.00	0.00	0.16
Goa	265	233	253	277	-	-	-	-
Karnataka	37	-	412	412	916.25	928.02	1283.79	1076.61
Kerala	5018	5248	5892	6679	8874.78	19224.53	20262.39	19203.25
Maharashtra	1421	1440	1503	1543	9106.53	13667.60	18724.02	18517.30
Odisha	73	66	66	572	131.22	118.41	118.41	163.42
West Bengal	2399	2369	551	572	126980	136369	29762.61	15008.47
Tamil Nadu	-	-	2	2	-	-	-	-
Gujarat	437	421	286	386	-	-	-	-
Jharkhand*	2	-	-	-	-	-	-	-
Uttar Pradesh				4			23.86	42.17
<b>TOTAL (reporting states)</b>	<b>9976</b>	<b>9874</b>	<b>9062</b>	<b>10586</b>	<b>147987.98</b>	<b>174693.51</b>	<b>73330.46</b>	<b>58548.96</b>

Source: State Governments      \*: Information has not received for the year 2023-24

The total number of vessels in the States during 2023-24 was 10586 compared to 9062 vessels in the year 2022-23. Kerala has reported the highest numbers of vessels 6679 followed by Maharashtra (1543) and Odisha (572). However, the number of passengers carried in 2023-24 was 58548.96 thousand. Kerala has reported the highest no. of passengers carried through waterways which was 19203.25 thousand followed by Maharashtra (18517.30 thousand).

## X. PERFORMANCE OF COMPANIES ENGAGED IN IWT

35. The data received from IWT companies shows that amongst the reporting private companies the maximum number of vessels was held by JSW Dharamtar Port Pvt. Ltd. (60) followed by, West Bengal Surface Transport Corporation Ltd. (40), Vivada Corporation Ltd. (34), Jindal ITF Ltd. (25) and Vedanta Ltd. (32). Detailed performance of companies engaged in IWT activities is given in Table 4.1 & 4.2 (section 4).

The maximum cargo of 4842.53 thousand tonnes was carried by PNP Maritime Services Pvt. Ltd followed by JSW Jaigarh Port Ltd. (3149.45 thousand tonnes) and Vedanta Ltd. (2286.82 thousand tonnes).



36. Cargo moved by top 10 reporting private companies along with their number of powered vessels employed in 2023-24 is given below:

<b>Table 10: Top Private Companies - Cargo moved along with Powered Vessels 2023-24</b>		
<b>Name of the Company</b>	<b>Cargo moved ('000 tonnes)</b>	<b>No. of Powered Vessels</b>
1. PNP Maritime Services Pvt. Ltd.	4842.53	19
2. JSW Jaigarh Port Ltd	3149.45	4
3. Vedanta Ltd	2286.82	22
4. Netincon Logistics Pvt. Ltd.	1403.67	9
5. JSW Salav Steel Ltd.	831.10	7
6. Bothra Group	619.05	4
7 Jindal ITF Ltd.	328.95	25
8. TP RoyChowdhury & Co. Pvt. Ltd.	303.59	5
9. Vivada Corporation Ltd.	245	34
10. Cochin Bunkers Pvt. Ltd.	203.86	5

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

## **XI. FINANCIAL OUTLAY & EXPENDITURE FOR IWAI**

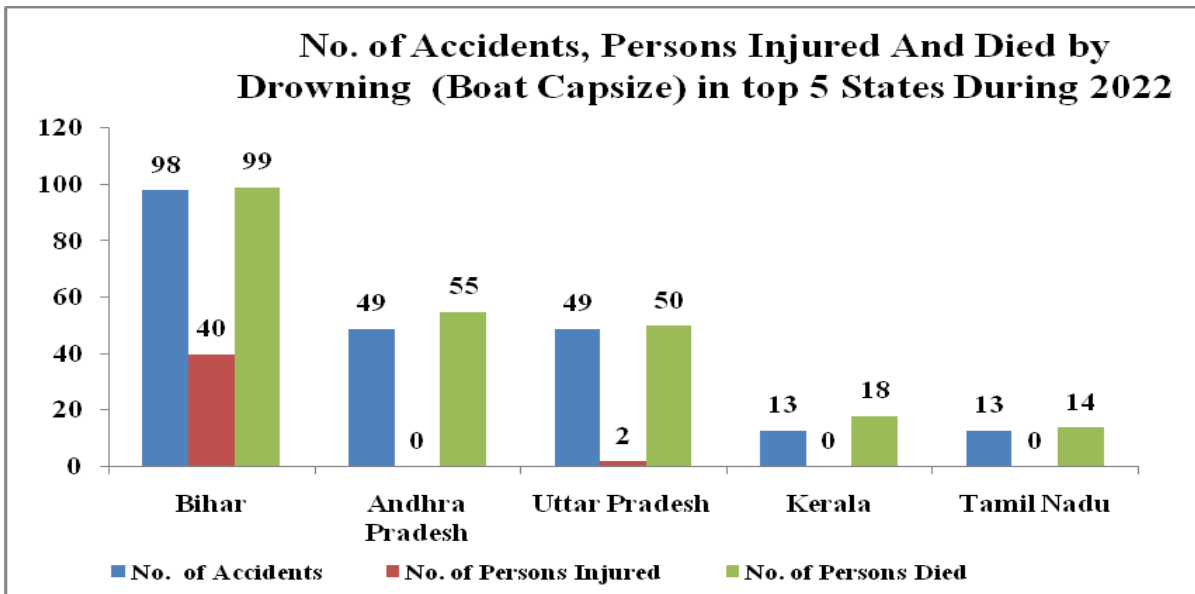
37. The Budget Estimate (BE) and Revised Estimate (RE) during 2019-20 was Rs.614.56 crore and Rs.406.60 crore respectively and expenditure during the same years were Rs.732.93 crore (including expenditure from Bond fund raised during 2017-18). BE and RE during 2020-21 was Rs.540.00 crore and Rs.413.50 crore respectively and expenditure during the same year was Rs.367.30 crore. BE during 2021-22 was Rs.486.10 crore and RE during 2021-22 was Rs.416.80 crore. The expenditure during the same year was Rs.425.45 crore. For 2022-23, the BE was Rs.490.81 crore and RE was Rs.495.31 crore. The expenditure during the same year is Rs.514.70 crore (provision/unaudited). Details of BE, RE actuals for 2023-24 are as detailed-

<b>Major/Minor/Sub/Object Heads (unit of Appropriation)</b>	<b>2023-24 (Rs. in crore)</b>			
	<b>BE</b>	<b>RE</b>	<b>Budget Grants Received from Ministry</b>	<b>Expenditure</b>
<b>Grand Total</b>	992.46	1087.00	1087.00	1087.00

## **XII. INLAND WATERWAYS TRANSPORT ACCIDENTS**

38. The total number of accidents on inland waterways during the year 2022 was 256 out of which 98 were reported in Bihar followed by 49 accidents each in Andhra Pradesh and Uttar Pradesh. The number of deaths during the year due to boat mishaps was highest in Bihar at 99 followed by 55 in Andhra Pradesh and 50 in Uttar Pradesh. It is observed that among States (Table 6.1, Section 6) 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 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	2023-24	
		Total Length of the Rivers/Canals/Lakes in the State	Navigable Length
1	2	3	4
<b>1 ANDHRA PRADESH</b>			
(i)	Godavari (Bhadrachalam to Rajahmundry)	1530	171
(ii)	Krishna(Wazirabad to Vijayawada)	1400	157
	Others **	831.73	831.73
	<b>Total</b>	<b>3761.73</b>	<b>1159.73</b>
<b>2. ASSAM</b>			
(i)	Brahmaputra	2900	891
(ii)	Barak	564	121
(iii)	Subansiri	442	111
(iv)	Dhansiri/Chathe	352	110
(v)	Dehing	380	114
(vi)	Aai	71	71
(vii)	Beki	85	73
(viii)	Doyang	150	61
(ix)	Puthimari	72	58.234
(x)	Gangadhar	62	62
(xi)	Kopili	290	46
(xii)	Dikhow	236	63
(xiii)	Jinjiram	43	43
(xiv)	Lohit	560	100
(xv)	Tlwang (Dhaleswari)	160	86
	<b>Total</b>	<b>6367</b>	<b>2010.234</b>
<b>3. BIHAR</b>			
(i)	Ganga	480	480
(ii)	Gandak	255.8	255.8
(iii)	Koshi	233.04	233.04
(iv)	Ghaghra	85	85
(v)	Punpun	35	-
(vi)	Sone	160	-
(vii)	Karmnasa	86	-
	<b>Total</b>	<b>1334.84</b>	<b>1053.84</b>
<b>4 TAMIL NADU</b>			
(ii)	North Buckingham Canal	58	40.70@@
(iii)	Central Buckingham Canal	7.2	-
(iv)	South Buckingham Canal	102.4	78.90@@
(v)	Mullai Periyar Lake	14	14
	<b>Total</b>	<b>181.6</b>	<b>133.6</b>

Table No. 1.1

## Navigable Waterways in India

(In Kms.)

Sl. No.	State/Rivers/Canals/Lakes	2023-24	
		Total Length of the Rivers/Canals/Lakes in the State	Navigable Length
1	2	3	4
<b>5 KARNATAKA</b>			
(i)	Sharavathi	80	27
(ii)	Tungabhadra	375	375
(iii)	Malaprabha	270	230
(iv)	Ghataprabha	160	160
(v)	Krishna	325	125
(vi)	Cauvery	270	34
(vii)	Kabini	117	30
(viii)	Gurupura	80	20
(ix)	Gangolli	48	20
(x)	Bheema	860	125
(xi)	Udyavara	37	14
(xii)	Nethravathi	96	26
(xiii)	Kali	184	29
	<b>Total</b>	<b>2902</b>	<b>1215</b>
<b>6 MAHARASHTRA</b>			
(i)	Navapur(Ucheli Creek)/ Banganga River	7.51	2.9
(ii)	Satpati/Dudh River	11.33	5.89
(iii)	Vaitarna River	50	39.3
(iv)	Ulhas River	38.6	27.4
(v)	Dharamtar Creek (Amba River)	49.65	44.2
(vi)	Patalganga River	24.59	15.8
(vii)	Pen Creek/ Bhageshwari River	13.66	9.4
(viii)	Kundalika River/ Revdanda Creek #	32.9	32.9
(ix)	Bankot Creek (Savitri River)	57.17	52.6
(x)	Kal River #	14.7	14.7
(xi)	Kelshi	11.74	1.88
(xii)	Uthambar	4.74	1.58
(xiii)	Dabhol Creek/ Vashishti River #	48.5	48.5
(xiv)	Jagbudi River	25.31	23.7
(xv)	Jaigad Creek/ Shastri River	51.99	48.6
(xvi)	Machkandi River	21.16	8.26
(xvii)	Vaghotan River	43.7	33.3
(xviii)	Achra River	10.01	2.91
(xvix)	Gad River / Kalaval Creek	21.23	21
	Others**	371.86	278.11
	<b>Total</b>	<b>910.35</b>	<b>712.93</b>
<b>7 MIZORAM</b>			
(i)	Chhintuipui/ Kolodyne River	138.46	118
(ii)	Tlawng River	185.15	81.35
(iii)	River Khawthlangtuipui-River Tuichawng	128.08	17
	<b>Total</b>	<b>451.69</b>	<b>216.35</b>

Table No. 1.1

## Navigable Waterways in India

(In Kms.)

Sl. No.	State/Rivers/Canals/Lakes	2023-24	
		Total Length of the Rivers/Canals/Lakes in the State	Navigable Length
1	2	3	4
8	<b>ODISHA</b>		
(i)	Mahanadi	493	199
(ii)	Brahmani	541	277
(iii)	Baitarani	344	32
(iv)	Subarnarekha #	50	50
(v)	Budhabalanga #	35	35
(vi)	Dhamara #	20	20
(vii)	Salandi #	17	17
(viii)	Panchapata #	21	21
(ix)	Parnei #	45	45
(x)	Hatel #	30	30
(xi)	Bansgadai #	32	32
(xii)	Hansua #	37	37
(xiii)	Tirkota #	18	18
(xiv)	Jamboos #	6	6
(xv)	Gobari #	16	16
(xvi)	Ramchandi #	16	16
(xvii)	Khamasi #	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)	Khusabhadra #	25	25
(xxvi)	Daya #	9	9
(xxvii)	Rajua #	7	7
(xxviii)	Makara #	11	11
	Others **	367	367
	<b>Total</b>	<b>2425</b>	<b>1555</b>
9	<b>GOA</b>		
(i)	Mandovi River	78	66
(ii)	Zuari River	68	68
(iii)	Mapusa River	27	27
(iv)	Chapora River	34	32
(v)	Tiracol River	29	23
(vi)	Sal River	20	15
	Others**	18	18
	<b>Total</b>	<b>274</b>	<b>249</b>

Table No. 1.1

## Navigable Waterways in India

(In Kms.)

Sl. No.	State/Rivers/Canals/Lakes	2023-24	
		Total Length of the Rivers/Canals/Lakes in the State	Navigable Length
1	2	3	4
10	<b>WEST BENGAL</b>		
(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
	<b>Total</b>	<b>4741.1</b>	<b>4593.1</b>

Table No. 1.1

## Navigable Waterways in India

(In Kms.)

Sl. No.	State/Rivers/Canals/Lakes	2023-24	
		Total Length of the Rivers/Canals/Lakes in the State	Navigable Length
1	2	3	4
<b>11 NAGALAND #</b>			
(i)	Tizu and Zunki	42	42
(ii)	Dhansiri/Chathe	110	110
(iii)	Dikhu	63	63
(iv)	Doyang	61	61
	<b>Total</b>	<b>276</b>	<b>276</b>
<b>12 JHARKHAND*</b>			
(i)	Ganga	95	95
	<b>Total</b>	<b>95</b>	<b>95</b>
<b>13 UTTAR PRADESH</b>			
(i)	Ganga	461	461
(ii)	Assi	5.05	
(iii)	Betwa	67.05	
(iv)	Chambal	60.68	
(v)	Gandak	33.68	33.68
(vi)	Ghaghra	335	335
(vii)	Gomati	518	
(viii)	Karmnasha	86	
(ix)	Tons	73	
(x)	Varuna	53	
(xi)	Yamuna	973	
	<b>Total</b>	<b>2665.46</b>	<b>829.68</b>
<b>14 KERALA</b>			
(i)	Total of Rivers	1887.01	1219.982
	Others **	994.001	784.224
	<b>Total</b>	<b>2881.01</b>	<b>2004.21</b>

Source: State Governments

\* Information for the year 2023-24 has not received.

\*\* Including Canals, Lakes, Creeks and other waterways

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

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

@@ Navigation could be possible only after renovation



Table No. 1.2

## Infrastructure Facilities Available on National Waterways (As on 31-3-2024)

Place	Size of Vessels that can be accommodated (DWT)	No. of Berths	Cargo Handling Equip. and their Capacity	Type and Extent of Storage Facility Available	Remarks like Road / Rail connectivity, land details, usage etc.
1	2	3	4	5	6
<b>National Waterway No.1</b>					
<b>1. Haldia - Farakka : (560 Km) ,Depth - 2.6 to 3.0</b>					
(i) Haldia	1500	Three(Floating)	Nil	One Godown of size 12 x 30m and Open space 1630 m2	Land taken from Haldia Dock Complex (HDC) on lease basis.
ii) Budge Budge - Kolkata	Nil	Nil	Nil	Nil	Nil
(iii) a) BISN/G.R. Jetty-1,Kolkata	1500	One (Floating)	Nil	Open Space area 6000 m2	
(iii) b) G.R. Jetty-2,Kolkata	3000	Fixed RCC Jetty 71.25 m x 20m berth	Nil	Transit shed of 1186.75 sqm area for storage and open storage area of 4103.20 sqm	A permanent RCC jetty has been constructed and operational since November 2013 for handling of General cargo. This jetty is also used for loading of fly ash to Bangladesh and embark/disembark of tourists and logistics support.
(iv) Botanical Garden, Kolkata	1500	One(Floating)	One number of crane pontoon for cargo handling	To be stored on Pontoon	Land belongs to KoPT being used by 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.
(vi) Shantipur	600	One(Floating)	Nil	To be stored on Pontoon and open space of IWA's land 2000 Sq. m	Land belongs to State Govt. of W.B. being used by IWA for embark/disembark of passenger/Tourist, loading/unloading of other logistics support.
(viii) Metihari/Swaroopganj	600	One(Floating) Pontoon	Nil	One Godown of size 4.5 x 5 m and Open space 290 m2	Land taken from KoPT on lease basis
(ix) Kalna/Katwa	600	One(Floating)	Nil	To be stored on Pontoon.	Land not available pontoon placed on water front
(x) Hazardwari	600	One (floating)	Nil	To be stored on Pontoon.	Land not available pontoon placed on water front
(xi) Pakur (Putimari)	1500	One(fixed)	Nil	Nil	Owned by Farakka Barrage project(FBP)
(xii) Farakka					
a. D/s Farakka of existing lock gate	1500	One(fixed)	Nil	Nil	Being used for embark/disembark of passenger/Tourist, loading/unloading of other logistics support.
b. U/s Farakka (IWA's Floating jetties)	600	One(Floating)	Nil	Nil	Being used for embark/disembark of passenger/Tourist, loading/unloading of other logistics support.
c. Owned by Jindal ITF	2500 (two vessels at a time)	Jetty with conveyor	Nil	Nil	Being used for unloading NTPC coal at Farakka Super Thermal Power Station
<b>2. Farakka - Barh : (400 km), Depth- 2.1 to 2.5</b>					
(xiii)Rajmahal (Manglaghat)	600	One(Floating)	Nil	To be stored on Pontoon.	Being used for berthing of vessel, embark/disembark, loading/unloading and logistics support.
(xiv) MMT Sahibganj	1500	fixed RCC Jetty of 270m X 25m	1. Mobile harbour crane (1 Nos 50T capacity@ 17-18m outreach. 2. Barge loader with loading capacity 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 31-3-2024)

Place 1	Size of Vessels that can be accommodated (DWT) 2	No. of Berths 3	Cargo Handling Equip. and their Capacity 4	Type and Extent of Storage Facility Available 5	Remarks 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. Road connectivity available, 3.86 Acre land
<b>3. Barh-Ghazipur : (290 km), Depth - 1.6 to 2.0</b>					
(xvii) 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. Container 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. Road connectivity available, 3.9327 Acre land.
(xviii) IMT Kalughat	3000	1 no. (125m X 30m)	–	Container yard storage area (Open area) 2900sqm, Container handling cap. of 77000 TEU/Annum	IMT Kalughat has been Inaugurated on 15.02.2024, Road connectivity available, 13.17 Acre land, connected to NH
<b>3. Ghazipur-Allahabad : (369 km), Depth -1.5 to 2.2</b>					
<b>* In Chunar- Allahabad stretch (198 km) Only Hy. Survey is being conducted</b>					
(xix) (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. Road connectivity available
(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
(xx) Ravidas Ghat	600	One(floating)	Nil		Being used for berthing of vessel, embark/disembark, loading/unloading and logistics support.
(xi) 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, Halidah, 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 31-3-2024)

Place 1	Size of Vessels that can be accommodated (DWT) 2	No. of Berths 3	Cargo Handling Equip. and their Capacity 4	Type and Extent of Storage Facility Available 5	Remarks 6
<b>National Waterways No. 2</b>					
<b>1. Bangladesh Border-Pandu: (255 km), Depth - 2.5</b>					
(i) Dhubri	2000	One(Rcc Ro Ro Jetty)	Crane pontoon, 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
(ii) Jogighopa	2000			Open storage facility available	Project work for Multi Modal Terminal is under progress
(iii) 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.
<b>2. Pandu-Neamati : (374 km), Depth - 2.5</b>					
(iv) Silghat	2000	One(floating)	Pontoon	Open storage facility available	The berthing pontoon is shifted u/s (about 1 km) as the original terminal land has been eroded
(v) Biswanath	2000	One(floating)	Pontoon	Open storage facility available	DGPS station is commissioned.
(vi) Neamati	2000	One (floating)	Pontoon	-	
<b>3. Neamati-Dibrugarh : (123 km), Depth- 1.5</b>					
(vii) Bogibeel	2000	One (floating)	Pontoon	-	
<b>4. Dibrugarh-Sadiya (Orumghat) : (139 km),Depth - 1.5</b>					
(viii) Oakland/ Dibrugarh	1000	One(floating)	Pontoon	-	DGPS station is commissioned. The berthing pontoon is shifted temporarily due to erosion to Orumghat
(ix) Orumghat	1000	One (floating)	Pontoon	-	1.77 hectare land acquired for development of terminal.
Note:					
1) Floating pontoons can be provided at any location along waterway on demand.					
2) Night navigation facilities are available between Bangladesh Border and Silghat (440km).					
3) River notices issued on regular monthly/fortnightly basis.					
4) Different Global Positioning System(DGPS) Stations to cover entire waterway are provided at Dhubri, Jogighopa,Biswanath and Dibrugarh.					

Table No. 1.2

## Infrastructure Facilities Available on National Waterways (As on 31-3-2024)

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
<b>National Waterways No. 3</b>					
<b>1. Kochi-Kottapuram : (30 km), Depth-2.0</b>					
(i) 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
<b>2. Udyogmandal Canal : (23 km),Depth -2.0</b>					
(ii) 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.
<b>3. Champakkara Canal: (14 km), Depth 2.0</b>					
(iii) Ernakulam 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.
(iv) Kakkanad (CSEZ)	350.0	10 m temporary jetty	Nil	Nil (only land available)	Approach road is available.
<b>4. Kochi - Chavara: (107 km), Depth 2.0</b>					
(v) Vaikkom	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.
(vi) 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.
(vii) Alappuzha	350.0	One 30 m (RCC Jetty)	Nil	Covered godown 300 Sqm and 2500 Sqm Open Storage.	Approach road is available.
(viii) 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.
(ix) Kayamkulam	350.0	One 30 m (RCC Jetty)	Nil	Covered godown 300 Sqm and 1600 Sqm Open Storage.	Approach road is available.
(x) Chavara	350.0	Nil	Nil (land only)	Nil (land only)	Approach road is available.
<b>5. Chavara - Kollam (31 Km), Depth 2.0</b>					
(xi) 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.
<b>6. CPT Area: Depth 2.0</b>					
(xii) 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.
(xiii) Bolghatty Island	16 TEU	One berth for container vessels	Nil		
Source: IWT Directorate of states & IWA Note :- Channel marks for 24 hrs. navigation are provided on NW 3, NW 8 & NW 9. 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.					
<b>National Waterways No. 16 (Notified as Class-IV waterway)</b>					
<b>1. Bhanga - Lakhipur : ( 121 km), Depth - 2.00</b>					
(a) Badapur	400	one temporary jetty with crane pontoon for Cargo vessel berthing	one crane pontoon	(i) 1 transit sheds of 30 x 16 m (ii) 1 Equipment Shed of 10.75 m x 10.75 m (iii) open storage facility also available	(i) Storage facility is developed (ii) Notified as Expended Port of Call of Karimganj terminal under PIWT&T Customs & Immigration Facility is available
(b) Karimganj (along IBP Route 3,4 & 7,8)	400	One(Rcc Jetty)	-	(i) 1 transit sheds of 85.35 m x 22.97 m (ii) open storage facility also available	(i) Storage facility is developed (ii) Notified as Port of Call under PIWT&T Customs & Immigration Facility is available
Source: Inland Waterways Authority of India (IWA)					

### Infrastructure Facilities Available on State Waterways (As on 31-3-2024)

42

Table No. 1.3

## Infrastructure Facilities Available on State Waterways (As on 31.3.2024)

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
3	<b>Uttar Pradesh</b>							
	Ghazipur-Chunar	1.00-2.50	Ramnagar Varanasi	3 Vessels of 60m Length	1 No. (200m x 423 RCC Jetty available)	2 nos- Liebherr Mobile Harbour Crane at 50 MT/each	MMT Hardstand Area 9800 M2	Multi Modal Terminal, Ramnagar Varanasi has been inaugurated during Nov-2018 for promotion of Cargo through IWT.
4	<b>West Bengal</b>							
	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.							
5	<b>GOA</b>							
	Panaji Port (River Mandovi)	3.30 metres	Panaji	75 Kms Length	1	Nil	Nil	Ports jetty being used by vessels calling in the Ports
6	<b>TAMILNADU</b>							
	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 31.3.2024)

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
7	MIZORAM							
	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
8	Nagaland							
	-	-	-	-	-	-	-	
9	Kerala							
	State Waterways	1.5 M	Irrigation Division,Kollam	Nil	Nil	Nil	Nil	Nil
		3.0 M	Irrigation Division,Alappuzha	Nil	Nil	Nil	Nil	Nil
	Vembanattukayal	3 to 6 M	Vaikom Terminal	Barrage (250/metric ton)	2	-	3800 Sq /Feet/Godown	Managed by Inland Waterway Authority of India
		2 to 4	Kottayam Terminal			-	40000/sq/feet godown	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



**SECTION – 2**

**CARGO MOVED ON  
VARIOUS WATERWAYS**

Table No. 2.1

## Cargo Movement on National Waterways

Details of Waterways	Distance (Kms)	Cargo Moved (lakh Tonnes)			Tonne Kms (In Lakh)		
		2021-22	2022-23	2023-24	2021-22	2022-23	2023-24
2	3	7	8	9	13	14	15
NW-1 (Ganga-Bhagirathi-Hooghly River System (Haldia-Allahabad))	1620.00	109.28	131.70	128.24	20082.07	18,703.99	16,554.28
NW-2 (Brahmaputra River (Dhubri-Sadiya))	891.00	4.28	6.30	5.89	74.38	106.67	151.63
NW-3 (West Coast Canal)	205.00	16.95	32.28	32.93	179.19	213.19	194.94
NW-4 (Krishna Godavari River Systems)	2890.00	112.34	84.18	43.03	316.47	295.22	190.66
NW-5 (East Coast Canal And Matai River/Brahmani-Kharsua-Dhamra Rivers/Mahanadi Delta Rivers)	233.00	0.15	4.03	6.35			95.06
NW-8 (Alappuzha-Changanassery Canal)	29.30		0.34	0.36			5.79
NW-9 (Alappuzha-Kottayam Athirampuzha Canal)	40.20		0.17	0.22			4.79
NW-14 (Baitarni River)	48.48			0.01			0.07
NW-16 (Barak River)	121.00	0.05	0.11	0.03			0.01
NW-23 (Budha Balanga)	55.90		0.30	0.25			1.21
NW-31 (Dhansiri/Chathe)	113.75			0.07			56.97
NW-44 (Ichamati River)	63.00	8.18	4.63	4.84			362.08
NW-64 (Mahanadi River)	98.00	0.15	4.50	6.71			94.01
NW-86 (Rupnarayan River)	72.00	0.01	0.88	0.99			54.82
NW-94 (Sone River)	141.00			11.61			273.41
NW-97 (Sunderbans Waterway)	172.00	61.03	54.73	51.85	10160.54	9,202.31	13,089.32
<b>Sub Total NWs</b>		<b>312.42</b>	<b>324.14</b>	<b>293.39</b>	<b>30812.65</b>	<b>28521.39</b>	<b>31129.04</b>
NW-68 (Mandovi River)	41.00			24.24			1045.79
NW-111 (Zuari River)	50.00			10.96			580.93
<b>Goa Waterways Total</b>	<b>91.00</b>	<b>45.78</b>	<b>29.29</b>	<b>35.21</b>	<b>2155.39</b>	<b>1,587.47</b>	<b>1,626.72</b>
NW-10 (Amba River)	44.97			301.67			5,934.06
NW-83 (Rajpuri Creek)	31.00			4.47			18.75
NW-85 (Revadanda Creek-Kundalika River System)	31.00			9.93			0.23
NW-91 (Shastri River - Jaigad Creek System)	48.00			370.49			3,139.75
<b>Maharashtra Waterways Total</b>	<b>154.97</b>	<b>436.06</b>	<b>631.49</b>	<b>686.56</b>	<b>1592.35</b>	<b>8,177.97</b>	<b>9,092.80</b>
NW-73 (Narmada River)	226.00			0.57			3.81
NW-100 (Tapi River)	436.00			314.57			3,562.94
<b>Gujarat Waterways Total</b>		<b>293.67</b>	<b>276.57</b>	<b>315.14</b>	<b>3117.61</b>	<b>3,163.83</b>	<b>3,566.75</b>
<b>Grand Total</b>	<b>1153.94</b>	<b>1087.93</b>	<b>1261.49</b>	<b>1330.31</b>	<b>37678.00</b>	<b>41,450.66</b>	<b>45,415.31</b>

Source: Inland Waterways Authority of India (IWAI)

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)	2023-24	Cargo generally moved
1	2	3	4	5
<b>A.</b>	<b>VIVADA IWL</b>			
1	Haldia-Kolkata	105	1,74,000.00	FO & HSD
2	Haldia-Kolkata	105	71,000.00	LUBE/HSD
	<b>Sub Total (A)</b>		<b>2,45,000.00</b>	
<b>B.</b>	<b>ICSL(Inland &amp; Coastal Shipping Limited)</b>			
1	MMT Varanasi - Gaighat (Patna)	353.00		Cattle food
2	IWT Terminal Gaighat-Kolkata	815.00	20.00	Broken Rice
3	Kolkata-IWT Terminal Gaighat	815.00	16.80	Food Grains, Edible Oil in containers
4	Kolkata to IWT Terminal Gaighat, Patna			
5	IWT Terminal Gaighat, Patna to Pandu, Guwhati			
6	G.R. Jetty-2, Kolkata - Varanasi	1178	16.20	Container cargo
	<b>Sub Total (B)</b>		<b>33.00</b>	
<b>C.</b>	<b>OTHER PRIVATE OPERATORS</b>			
<b>1</b>	<b>M/s PSP Project Pvt. Ltd.</b>			
1	MMT Varanasi to Lalita Ghat, Varanasi	7.5		Sand stone
<b>2</b>	<b>TIRUPATI VESSEL (P) LTD.</b>			
1	Budge- Budge(Kol)- Khulna	497	4,356.00	Fly Ash
2	Budge- Budge Narayanganj	884	2,73,628.00	Fly Ash
3	IWAI Haldia Jetty-Khulna	439	1,816.00	Fly Ash
4	IWAI Haldia Jetty-Narayanganj	826	79,944.00	Fly Ash
5	IWAI Haldia Jetty-Pangaon	842	27,988.00	Fly Ash
6	IWAI BTPS Jetty-2-Narayanganj	964	15,750.00	Fly Ash
7	IWAI BTPS Jetty-2-Pangaon	980	1,894.00	Fly Ash
<b>3</b>	<b>M/s J.M. Baxi Heavy Pvt. Ltd., Kolkata</b>			
1	Kolkata to Buxar	984		Generator Stator
<b>4</b>	<b>M/s Total Movements Pvt. Ltd., Kolkata</b>			
1	Kolkata to Simaria	713		1 no. 1st diesel HDT reactor and 1 no. 2nd diesel HDT reactor
2	Samdaghat (Sahebganj) to Manihari			
<b>5</b>	<b>M/s Deurgo Projects (India) Pvt. Ltd. Mumbai</b>			
1	Diamond Harbour to Semaria, Barauni (Bihar)	713		1no. Reactor
<b>6</b>	<b>M/s Prism Logistics Pvt. Ltd., Kolkata</b>			
1	Kolkata to Buxar	984		Generator Stator
<b>7</b>	<b>Rivering Shipping &amp; Logistics</b>			
1	IWAI Haldia Jetty-Khulna	439	1,992.00	Fly Ash
2	IWAI Haldia Jetty-Pangaon	842		Fly Ash
3	Budge- Budge (Kol)- Khulna	497	19,035.00	Fly Ash
4	Budge Budge-Naryanganj	884	1,50,434.00	Fly Ash
5	TT Shed-Narayanganj	910	1,46,214.00	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)	2023-24	Cargo generally moved
1	2	3	4	5
6	IWAI Haldia Jetty-Narayanganj	826	356259	Fly Ash
7	IWAI BISN Jetty-Khulna	522	888.00	Fly Ash
8	IWAI BISN Jetty-Narayanganj	909	8,459.00	Fly Ash
9	GR Jetty II- Khulna	522	2,052.00	Fly Ash / Stone Aggregates
10	HDC Fly Ash Jetty Haldia-Narayanganj	826	5,940.00	Fly Ash
11	GR Jetty II- Narayanganj	909	1,65,365.05	Flyash / Crushed Stone / Thermal Coal / Indian Coal / Quarzite Powder / Maize / Sponge Iron / Prime Hot Rolled Non alloy Steel Rod
12	GR Jetty II - Mongla	509	4,427.68	Rice, De Oiled Rice Bran Extraction, Fly Ash, Stone Chips, HR Steel Plates, Soyabean Extraction
13	IWAI BTPS Jetty-2 - Narayanganj	964	2,29,662.00	Fly Ash
14	IWAI BTPS-Mongla	564		Stone boulders
<b>15 HDC, Haldia - Mongla</b>		<b>426</b>		<b>Coal / Naptha</b>
16	<b>K P Dock- Mongla</b>	510	5,317.49	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 / Soyabean Extraction
17	K P Dock- Khulna	523		Rice / Stone Chips
18	K P Dock- Narayanganj	910	50,325.77	Fly Ash / Sponge Iron / Rice / Wheat / High Ash Coke / Quartzite Mould Powder Silico Manganese / Soda Ash Light / Building Construction Material / Ferro Silico Manganese / Steel item (Angle Bars) / Coal / Maize / Hard Coke / Raw Cotton / Hard Coke / Prime Sheet Pile Crane Body & Hydraulic Crane (ODC), 5TPH Pre-Crushing Grinding & Coating Plant, Mill Rejected Coal / Coal
19	N. S. Dock, Kolkata - Mongla	510	1,017.16	Stone Aggregates
20	N. S. Dock, Kolkata -Khulna	523		Wheat / Wire Rod Coil & Sponge Iron / Indian Coal
21	NSD - Narayanganj		1,200.00	Flyash
22	IWAI Haldia Jetty-Pangaon	842	7,654.00	Fly Ash
23	Budge Budge - Pangaon	900	2,542.00	Fly Ash
24	GR Jetty II - Pangaon	925	30,447.00	Fly Ash
25	IWAI BTPS Jetty-2 - Pangaon	980	1,407.00	Fly Ash
<b>8</b>	<b>KANISHKA SHIPPING LINES</b>			
1	Budge Budge-Narayanganj	884	19,795.00	Fly Ash
2	IWAI Haldia Jetty - Pangaon	842	78,771.00	Fly Ash
3	T.T.Shed-Narayanganj	910	7,125.00	Fly Ash
4	IWAI BISN Jetty-Khulna	522	3,110.00	Fly Ash
5	IWAI BISN Jetty-Narayanganj	895/909	2,067.00	Fly Ash
6	IWAI Haldia Jetty-Khulna	439	19,475.00	Fly Ash
7	IWAI Haldia Jetty - Narayanganj	826	59,940.00	Fly Ash
8	IWAI BTPS-Khulna	577	7,160.00	Fly Ash
9	HDC Fly Ash Jetty-Narayanganj	826	1,395.00	Fly Ash
10	T. T.Shed-Khulna	523		Fly Ash
11	KPD-Mongla	510		Machinery, Steel Cargo, Steam Turbine Associated / Wheat / Rice
12	Budge Budge-Khulna	497		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)	2023-24	Cargo generally moved
1	2	3	4	5
13	GR Jetty 2- Narayanganj	909	11696	Fly Ash / Stone Aggregates
14	GR Jetty II- Khulna	522		Fly Ash / Rice
15	KPD- Narayanganj	910		Wire Rod Coil / Wheat / Rice
16	KPD-Khulna	523	1,100.00	Rice / Wheat / Coal
17	IWAI BTPS-Narayanganj	964	31,810.00	Fly Ash
18	Budge Budge-Pangaon	900	9,676.00	Fly Ash
19	GR Jetty 2- Pangaon	925	5,810.00	Fly Ash
20	HDC Fly Ash Jetty-Pangaon	842	4,815.00	Fly Ash
21	IWAI BISN Jetty-Pangaon	925	4,232.00	Fly Ash
22	IWAI BTPS--Pangaon	980	17,232.00	Fly Ash
23	KPD, Kolkata - Pangaon	923		Rice / Wheat / Wheat & Sponge Iron in container
24	T.T. Shed - Pangaon	926	1,215.00	Fly Ash
25	HDC - Ashuganj	954	1,080.23	Steel Pipe / TMT Bar
26	IWAI BTPS Jetty - Mongla	510	760.00	Fly Ash
<b>9</b>	<b>C. Day &amp; Brothers</b>			
1	Budge Budge-Narayanganj	884	16,282.000	Fly Ash
2	IWAI BISN Jetty-Narayanganj	909	4,313.000	Fly Ash
3	IWAI Haldia Jetty-Narayanganj	826	1,73,212.000	Fly Ash
4	T.T.Shed-Narayanganj	910	1,918.000	Fly Ash
5	HDC Fly Ash Jetty-Narayanganj	826	1,509.000	Fly Ash
6	GR Jetty II- Narayanganj	909	28,524.000	Rice / Fly Ash
7	GR Jetty II- Khulna	522	1,320.000	Fly ash
8	KPD, Kolkata - Narayanganj	910	2,926.040	Fly Ash / Wheat / Maize / Sponge Iron
9	KPD, Kolkata - Mongla	510		Rice/Project Cargo+
10	Haldia Dock Complex, Haldia - Narayanganj	826	6,522.000	Fly Ash
11	IWAI BTPS Jetty-2, Tribeni - Narayanganj	964	5,307.000	Fly Ash
12	IWAI BTPS Jetty-2, Tribeni - Pangaon	980	673.000	Fly Ash
13	IWAI Haldia Jetty-Pangaon	842	2,096.000	Fly Ash
14	Mongla, Bangladesh - N.S. Dock, Kolkata	510	653.250	Crawler Crane & its accessories
15	Mongla, Bangladesh - N.S. Dock, Kolkata	510	177.300	ODC
<b>10</b>	<b>Neli</b>			
1	IWAI Haldia Jetty-Narayanganj	826	12,821.00	Fly Ash
2	IWAI BISN Jetty-Narayanganj	909	32,052.00	Fly Ash
3	T.T. Shed - Narayanganj	910	20,341.00	Fly Ash
4	GR Jetty II- Narayanganj	909	939.00	Fly Ash
5	IWAI BISN Jetty-Pangaon	925	1,140.00	Fly Ash
6	IWAI Haldia Jetty-Pangaon	842	5,970.00	Fly Ash
7	T.T. Shed - Pangaon	926	4,462.00	Fly Ash
<b>11</b>	<b>Ajbela Navigation</b>			
1	T.T.Shed-Narayanganj	910	9,028.00	Fly Ash
2	T.T.Shed-Khulna	523		Fly Ash
3	HDC Fly Ash Jetty-Narayanganj	826	7,927.00	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)	2023-24	Cargo generally moved
1	2	3	4	5
4	Budge Budge-Narayanganj	884	61,625.00	Fly Ash
5	Budge Budge-Khulna	497	35,705.00	Fly Ash
6	Budge Budge-Pangaon	900	6,730.00	Fly Ash
7	IWAI Haldia Jetty-Mongla	426		Fly Ash
8	IWAI Haldia Jetty-Khulna	439		Fly Ash
9	IWAI Haldia Jetty-Narayanganj	836/826	2,54,770.00	Fly Ash
10	IWAI BISN Jetty - Narayanganj	909	1,099.00	Fly Ash
11	IWAI Haldia Jetty-Pangaon	842	9,556.00	Fly Ash
12	GR Jetty II - Narayanganj	909	17,479.00	Fly Ash
13	GR Jetty II - Mongla	509	10,591.58	Rice / Flyash / Stone Chips/Rapseed Extraction (DORB)/Maize/Soyabean Extraction
14	HDC Fly Ash Jetty-Khulna	439	996.00	Flyash
15	IWAI BTPS Jetty-2, Tribeni - Narayanganj	964	14,616.00	Fly Ash
16	IWAI BTPS Jetty-2, Tribeni - Pangaon	980	3,806.00	Fly Ash
17	KPD, Kolkata - Narayanganj	910	20,665.67	Fly Ash / Sponge Iron / Wheat / Coal / DORB Extraction / Raw
18	KPD, Kolkata - Mongla	510	9,520.42	Project Cargo / Rice / Maize / Project Cargo / Rapseed Extraction
19	GR Jetty II - Pangaon	925	4,662.00	Flyash
20	HDC Fly Ash Jetty-Pangaon	842	1,903.00	Flyash
21	Kolkata, Sagardighi (STPS) IWAI Jetty - Pangaon	1260	1,991.00	Flyash
22	GR Jetty II - Narayanganj	909		Fly Ash
23	GR Jetty II - Mongla	509		Rice / Fly Ash / Stone Chips/Rapseed Extraction
24	GR Jetty II - Khulna	522		Fly Ash
25	HDC Fly Ash Jetty-Khulna	439		Fly Ash
26	GR Jetty II - Pangaon	925		Fly Ash
27	IWAI BISN Jetty - Khulna	522		Fly Ash
28	IWAI BTPS Jetty-2, Tribeni - Narayanganj	964		Fly ash
29	KPD, Kolkata - Narayanganj	910		Fly Ash / Sponge Iron / Wheat / Coal / DORB Extraction / Raw
30	KPD, Kolkata - Mongla	510		Project Cargo / Rice / Maize / Project Cargo / Rapseed Extraction
31	KPD, Kolkata - Pangaon	923		Wheat/Insulators, Cooling Towers, Parts and Accessories of Two
32	Haldia Dock Complex - Mongla	426		PrimeMild Steel Non Alloy Wire Rod in coil
33	Haldia Dock Complex - Narayanganj	826		Wire Rod
34	HDC Fly Ash Jetty-Pangaon	842		Fly Ash
35	Putimary Jetty - Mongla	894		Crushed Stone
<b>12</b>	<b>J.D.Shipping</b>			
1	Budge Budge-Narayanganj	884	1,10,330.00	Fly Ash
2	IWAI Haldia Jetty - Narayanganj	826	58,571.00	Fly Ash
3	KP Dock - Narayanganj	910		Machinery / Rice
4	KP Dock - Khulna	523		Steel plate / Rice
5	T.T. Shed - Narayanganj	910	12,055.00	Fly Ash
6	HDC Fly Ash Jetty-Narayanganj	826	58,470.00	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)	2023-24	Cargo generally moved
1	2	3	4	5
7	G.R. Jetty II - Narayanganj	909	18,485.00	Fly Ash
8	Budge Budge-Khulna	497	26,598.00	Fly Ash
9	HDC Fly Ash Jetty-Khulna	439	1,559.00	Fly Ash
10	IWAI BTPS Jetty-2, Tribeni - Narayanganj	964	7,530.00	Fly Ash
11	Budge Budge-Pangaon	900	7,874.00	Fly Ash
12	HDC Fly Ash Jetty- Pangaon	842	4,679.00	Fly Ash
13	IWAI BTPS Jetty-2, Tribeni - Pangaon	980	801.00	Fly Ash
14	IWAI Haldia Jetty - Pangaon	842	4,469.00	Fly Ash
15	Mongla - NSD	510	371.67	Crain and Other Equipment
16	Mongla - T. T. Shed	510	46.19	Dredger accessories, HDPE pipe full floats & Accessories
<b>13</b>	<b>Safehand Logistics</b>			
1	Budge Budge - Narayanganj	884	7,660.00	Fly Ash
2	IWAI Haldia Jetty - Narayanganj	826	23,492.00	Fly Ash
3	IWAI Haldia Jetty -Khulna	439	26,422.00	Fly Ash
4	Budge Budge - Khulna	497	908.00	Fly Ash
5	GR Jetty-2-Khulna	522	1,852.00	Fly Ash
6	IWAI BISN Jetty - Khulna	522	3,480.00	Fly Ash
7	HDC Fly Ash Jetty, Haldia - Khulna	439	1,918.00	Fly Ash
8	IWAI BTPS Jetty, Tribeni - Khulna	577	18,225.00	Fly Ash
9	IWAI BTPS Jetty, Tribeni - Narayanganj	964	17,209.00	Fly Ash
10	T. T. Shed - Khulna	523	4,348.00	Fly Ash
<b>14</b>	<b>Shun Shing India Private Ltd.</b>			
1	Budge Budge - Narayanganj	884	7,863.00	Fly Ash
2	Budge Budge - khulna	497	67,443.00	Fly Ash
<b>15</b>	<b>K K Shipping</b>			
1	T.T. Shed - Narayanganj	910	36,136.00	Fly Ash
2	Budge Budge - Narayanganj			
3	IWAI Haldia Jetty - Narayanganj	826	38,578.00	Fly Ash
4	IWAI BISN Jetty - Narayanganj	909	26,652.00	Fly Ash
5	Sri Ram Jetty-Narayanganj			
6	IWAI BISN Jetty- Khulna	522	4,610.00	Fly Ash
7	T.T.Shed-Khulna	523	2,524.00	Fly Ash
8	IWAI Haldia Jetty - Khulna	439	7,950.00	Fly Ash
9	IWAI BTPS Jetty-2, Tribeni - Narayanganj	964		Fly Ash
10	IWAI Haldia Jetty - Pangaon	842		Fly Ash
11	T.T.Shed-Pangaon	926		Fly Ash
12	G.R. Jetty II - Narayanganj	909	1,010.00	Fly Ash
13	T.T.Shed-Pangaon	926	14,285.00	Fly Ash
14	IWAI BISN Jetty- Pangaon	925	8,334.00	Fly Ash
15	IWAI Haldia Jetty - Pangaon	842	13,736.00	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)	2023-24	Cargo generally moved
1	2	3	4	5
<b>16</b>	<b>Tetron Merchandise</b>			
1	Budge Budge - Khulna	497		Fly Ash
2	IWAI BTPS Jetty-2, Tribeni - Khulna	577	26,510.000	Fly ash
3	IWAI BTPS Jetty-2, Tribeni - Narayanganj	964	2,165.000	Fly ash
4	IWAI BTPS Jetty-2, Tribeni - Pangaon	980	8,729.000	Fly ash
<b>17</b>	<b>M/s. Spring Professional Services Pvt. Ltd.</b>			
1	Sahibganj to Haldia	583		Stone Chips
<b>18</b>	<b>Rain Maker</b>			
1	IWAI Haldia Jetty- Narayanganj	826	23,636.00	Fly Ash
2	Budge Budge- Narayanganj	884	26,333.00	Fly Ash
3	G.R.Jetty 2- Narayanganj	909	11,290.00	Fly Ash
4	IWAI BISN Jetty- Narayanganj	909	4,083.00	Fly Ash
5	Budge Budge- Khulna	497	1,102.00	Fly Ash
6	T.T. Shed - Khulna	523		Fly Ash
7	HDC Fly Ash Jetty- Narayanganj	826	718.00	Fly Ash
8	T.T. Shed - Narayanganj	910	14,719.00	Fly Ash
9	GR Jetty2- Khulna	522		Fly ash
10	IWAI BTPS Jetty-2, Tribeni - Narayanganj	964	11,606.00	Fly Ash
11	KPD Kolkata- Narayanganj	910	2,003.93	Rice / Sponge Iron / Wheat
12	Budge Budge - Pangaon	900	35,386.00	Fly Ash
13	HDC Fly Ash Jetty, Haldia - Pangaon	861	13,717.00	Fly Ash
14	IWAI BISN Jetty - Pangaon	925	1,981.00	Fly Ash
15	IWAI BTPS Jetty-2 - Pangaon	977	25,470.00	Fly Ash
16	IWAI Haldia Jetty, Haldia - Pangaon	861	1,77,214.00	Fly Ash
17	KPD Kolkata- Khulna	523		Wheat / Rice
18	KPD, Kolkata - Pangaon	923		Rice
19	Mongla-KPD Kolkata	510		Loaded with Crane , Dismantled and SOC Containers)
20	NSD, Kolkata - Narayanganj	910		Rice
21	T.T. Shed - Pangaon	923	1,007.00	Fly Ash
22	GR Jetty2 - Pangaon	925	13,052.00	Fly Ash
23	IWAI BISN Jetty- Mongla	510	816.00	Fly Ash
24	M/s. Vinayak Shipping*			
25	Budge Budge- Narayanganj	884	960.00	Fly Ash
26	Budge Budge - Khulna	497	1,390.00	Fly Ash
27	IWAI Haldia Jetty-Narayanganj	826	8,318.00	Fly Ash
28	IWAI Haldia Jetty - Khulna	439	1,826.00	Fly Ash
29	G.R. Jetty-2 - Narayanganj	909		Fly Ash / Wheat & Rice
30	GR Jetty2- Khulna	522		Fly Ash
31	IWAI BTPS Jetty-2, Tribeni - Khulna	577	625.00	Fly Ash
32	IWAI BTPS Jetty-2, Tribeni - Narayanganj	964	7,625.00	Fly Ash
33	HDC Fly Ash Jetty- Narayanganj	826		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)	2023-24	Cargo generally moved
1	2	3	4	5
<b>19</b>	<b>Assetment Marine &amp; Traders Pvt. Ltd.</b>			
1	IWAI Haldia jetty- Narayanganj	826	14,195.00	Fly Ash
2	IWAI BISN Jetty - Narayanganj	909	6,070.00	Fly Ash
3	T.T. Shed - Narayanganj	910	2,710.00	Fly Ash
4	HDC, Haldia - Narayanganj	826		Prime Mild Steel Non Alloy Wire Rod in coil
5	G.R. Jetty-2- Narayanganj	909	2,850.00	Fly Ash
6	KPD Kolkata-Ashuganj	1038	2,747.02	Railway Lines(In Bundles)
7	IWAI BTPS Jetty-2 - Khulna	577	725.00	Fly Ash
8	IWAI BTPS Jetty-2 - Narayanganj	964	660.00	Fly Ash
9	KPD Kolkata-Narayanganj	910		Sponge Iron
<b>20</b>	<b>M/s. Fortune Transport</b>			
1	Budge Budge- Narayanganj	884	31,588.00	Fly Ash
2	G.R. Jetty-2- Narayanganj	909	6,551.68	Fly Ash
3	IWAI Haldia Jetty - Narayanganj	826	11,713.00	Fly Ash
4	Budge Budge-Khulna	497	754.00	Fly Ash
5	HDC Fly Ash Jetty, Haldia-Narayanganj	826	3,345.00	Fly Ash
<b>21</b>	<b>M/s. IA3 Enterprise</b>			
1	Budge Budge-Narayanganj	884	66,005.00	Fly Ash
2	G.R. Jetty-2-Narayanganj	909	17,112.77	Fly Ash
3	HDC Fly Ash Jetty, Haldia-Narayanganj	826	796.00	Fly Ash/Wheat/Quartzite Powder/Soyabean Extraction/Hard
4	IWAI BISN Jetty-Narayanganj	909	1,372.00	Fly Ash
5	IWAI Haldia Jetty-Narayanganj	826	61,204.00	Fly Ash
6	T.T. Shed-Narayanganj	910	2,644.00	Fly Ash
7	HDC Fly Ash Jetty, Haldia-Narayanganj	826		
8	KPD Kolkatta-Mongla	510	1,896.30	Rice / Wheat / Soyabean Extraction
9	KPD Kolkata-Narayanganj	910	8,745.19	Wheat / Hard Coke / Quartzite Powder / Sponge Iron / Steam Coal /
10	Budge Budge - Khulna	497	678.00	Fly Ash
11	G.R. Jetty-2-Khulna	522		Fly Ash
12	G.R. Jetty-2-Mongla	509	3,578.85	Fly Ash / Maize / Rapseed Extraction
13	IWAI BTPS Jetty-2, Tribeni - Narayanganj	964		Fly ash
14	T.T. Shed-Khulna	523		Stone Chips
15	Budge Budge-Pangaon	900	2,502.00	Fly ash
16	G.R. Jetty-2-Pangaon	925	3,323.00	Fly ash
17	Haldia Dock Complex, Haldia - Ashuganj	954	4,396.14	Prime TMT Bars
18	Haldia Dock Complex, Haldia - Mongla	426	525.00	Di Pipes
19	Haldia Dock Complex, Haldia - Narayanganj	826	1,495.67	MSWR (Hot Rolled)
20	IWAI BTPS Jetty, Tribeni-Narayanganj	964	10,953.00	Fly Ash
21	IWAI BTPS Jetty, Tribeni-Pangaon	980	600.00	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)	2023-24	Cargo generally moved
1	2	3	4	5
22	IWAI Haldia Jetty-Khulna	439	1,250.00	Fly Ash
23	IWAI Haldia Jetty-Mongla	426	1,224.00	Fly Ash
24	IWAI Haldia Jetty-Pangaon	842	1,944.00	Fly Ash
25	Mongla, Bangladesh - T. T. Shed	510	337.75	Pipes & Floaters / Dredgers
26	N. S. Dock - Narayanganj	910	1,251.88	Steam Coal
<b>22</b>	<b>M/s. Intel International Logistics</b>			
1	BTPS Jetty, Tribeni-Khulna	577		Fly Ash
2	G.R. Jetty-2-Khulna	522	740.00	Fly Ash
3	Budge Budge - Khulna	497	1,904.00	Fly Ash
4	KPD Kolkata-Khulna	523		Maize / Rice / Wheat / Indian Coal
5	KPD Kolkata-Mongla	510		Rice / Wheat / Indian Coal / Maize / Stone Chips / Aggregates
6	KPD Kolkata-Narayanganj	910	2,187.65	Maize / Wheat / Rice / Sponge Iron / Raw Cotton / Steam Coal / Stone
7	G.R. Jetty-2-Mongla	509		Wheat / Rice / Fly Ash
8	Budge Budge-Narayanganj	884	54,361.00	Fly Ash
9	Budge Budge-Mongla	484		Fly Ash
10	BTPS Jetty, Tribeni-Narayanganj	964	67,962.00	Fly Ash
11	IWAI BISN Jetty- Narayanganj	909	1,983.00	Fly Ash
12	IWAI Haldia Jetty-Narayanganj	826	1,19,175.00	Fly Ash
13	HDC Fly Ash Jetty, Haldia-Narayanganj	826	6,139.00	Fly Ash
14	T.T. Shed-Narayanganj	910	3,102.00	Fly Ash
15	HDC Haldia-Narayanganj	826	3,217.00	Wheat / Fly Ash
16	T.T. Shed - Khulna	523		Fly Ash
17	G.R. Jetty-2 - Narayanganj	910	1,46,099.00	Stone Chips / Fly Ash / Rice / Prime Mild Steel Alloy Hot Rolled
18	Budge Budge - Pangaon	900	2,198.00	Fly Ash
19	G.R. Jetty-2 - Pangaon	925	1,028.00	Fly Ash
20	BTPS Jetty, Tribeni - Pangaon	980	5,264.00	Fly Ash
21	IWAI Haldia Jetty - Pangaon	842	4,124.00	Fly Ash
22	Mongla, Bangladesh - NSD, Kolkata	508	295.17	Dismantled Crawler Crane
23	Mongla, Bangladesh - KPD, Kolkata	510	900.00	Yellow Peas in Bags
<b>23</b>	<b>M/s. Ishan Enterprise</b>			
1	Budge Budge-Narayanganj	884	13,909.00	Fly Ash
2	G.R. Jetty-2-Narayanganj	909		Fly Ash
3	IWAI BISN Jetty-Narayanganj	909		Fly Ash
4	IWAI Haldia Jetty-Narayanganj	826		Fly Ash
5	Budge Budge-Khulna	497	2,044.00	Fly Ash
6	IWAI Haldia Jetty-Khulna	439		Fly Ash
7	BTPS Jetty, Tribeni - Narayanganj	964	635.00	Fly Ash
<b>24</b>	<b>M/s. Tidal Marine Services</b>			
1	Budge Budge - Khulna	497		Fly Ash
2	Budge Budge-Narayanganj	884		Fly Ash
3	IWAI Haldia Jetty-Narayanganj	826		Steam Coal
4	BTPS Jetty, Tribeni-Narayanganj	964		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)	2023-24	Cargo generally moved
1	2	3	4	5
<b>25</b>	<b>Inflow Waterways</b>			
1	Budge Budge - Khulna	497	1,464.00	Fly Ash
2	Budge Budge - Narayanganj	884	3,234.00	Fly Ash
3	G.R. Jetty-2 - Khulna	522		Fly Ash
4	G.R. Jetty-2 - Narayanganj	909	682.00	Fly Ash
5	HDC Fly Ash Jetty, Haldia - Narayanganj	826	4,112.00	Fly Ash
6	IWAI Haldia Jetty - Narayanganj	826		Fly Ash
7	T.T. Shed - Narayanganj	910		Fly Ash
8	KPD Kolkata-Khulna	523		Non Basmati Parboiled Rice
9	KPD Kolkata-Mongla	510		Rice/Project Cargo/Galvanized transmission Line Tower Parts/Lattice
10	KPD Kolkata-Narayanganj	910		Wheat/Rice
11	Mongla, Bangladesh - N. S. Dock, Kolkata	510		Crane & Machinery Parts (ODC)
12	Budge Budge - Mongla	484		Fly Ash
13	Budge Budge - Pangaon	900	1,244.00	Fly Ash
14	G.R. Jetty-2 - Pangaon	925		Fly Ash
15	HDC Fly Ash Jetty, Haldia - Pangaon	861	736.00	Fly Ash
16	Mongla-KPD Kolkata	510		Railways Rails of Iron or Steel to UIC 60KG Heat Treated Rails Steel
17	Mongla-N. S. Dock, Kolkata	510		Crane & Machinery Parts
<b>26</b>	<b>Pacific Navigation Co.</b>			
1	IWAI BTPS Jetty-2, Tribeni - Khulna		15,873.00	
2	G.R. Jetty-2 - Narayanganj	909	1,242.00	Fly Ash
3	IWAI BTPS Jetty-2, Tribeni - Pangaon	980	5,831.00	Fly Ash
4	IWAI Haldia Jetty - Narayanganj	826	1,246.00	Fly Ash
<b>27</b>	<b>M/s. Everett (India) Pvt. Ltd.</b>			
1	KPD Kolkata-Narayanganj	910		Rice / Wheat / Cotton Belles
2	HDC Haldia-Mongla	426		Iron Non Alloy Steel / Prime Hot Rolled Steel Coil
3	HDC Haldia-Narayanganj	826		Hot Roll Steel Coil / Prime Hot Rolled Non Alloy Steel Plate
4	IWAI BTPS Jetty-2, Tribeni - Narayanganj	964	2,685.00	Fly Ash
5	KPD, Kolkata - Pangaon	923		Refined White Sugar in Containers
6	Mongla - KPD Kolkata	510		Parts of Cranes & Other Equipments
<b>28</b>	<b>M/s. Jak Maritime &amp; Logistics</b>			
1	KPD Kolkata-Mongla	510		Rice / Crushed Stone
<b>29</b>	<b>M/s. Roadwings International Pvt. Ltd.</b>			
1	G.R. Jetty-2 - Narayanganj	909		Fly ash
<b>30</b>	<b>ABC India Limited (Bharat Heavy Electricals Ltd.)</b>			
1	Kolaghat - Mongla	490		Auto Transformer Tank & Generator Transformer Tank
2	Kolkata - Numaligarh Refinery Jetty, Assam	1883		DHT Reactor
3	Diamond Harbour - Numaligarh Refinery Jetty, Assam	1803	6,586.02	ODC
<b>31</b>	<b>Bollere Logistics India Limited</b>			
1	Kolkata - Mongla	510		Glass Fiber Reinforced Plastic Products – GRP Chimney with Losse
<b>32</b>	<b>M/s. One Shipping Agency</b>			
1	Kolkata - Mongla	510		Re exportable Machineries -(Hydraulic Piling Rig-Bae Machinery,
2	Budge Budge - Khulna	497	723.00	Fly ash
3	Budge Budge - Narayanganj	884	1,924.00	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)	2023-24	Cargo generally moved
1	2	3	4	5
4	G.R. Jetty-2 - Khulna	522	7,809.00	Fly ash
5	G.R. Jetty-2 - Narayanganj	909	6,793.00	Fly ash
6	G.R. Jetty-2 - Pangaon	925	4,699.00	Fly ash
7	IWAI Haldia Jetty - Pangaon	842	906.00	Fly ash
<b>33</b>	<b>Delta Logistics</b>			
1	Budge Budge - Narayanganj	884	12,794.00	Fly Ash
2	G.R. Jetty-2 - Narayanganj	909		Fly Ash
3	IWAI BTPS Jetty-2, Tribeni -Narayanganj	964	6,278.00	Fly Ash
4	IWAI Haldia Jetty - Narayanganj	826	2,795.00	Fly Ash
5	Budge Budge - Khulna		2,386.00	Fly Ash
<b>34</b>	<b>Hindol Shipping</b>			
1	Budge Budge - Narayanganj	884	11,164.00	Fly Ash
2	Budge Budge - Khulna	497	3,660.00	Fly Ash
3	Budge Budge - Pangaon	900	11,387.00	Fly Ash
4	G.R. Jetty-2 - Pangaon	925	5,542.00	Fly Ash
5	HDC Fly Ash Jetty, Haldia - Narayanganj	826	1,042.00	Fly Ash
6	HDC Fly Ash Jetty, Haldia - Pangaon	861	4,734.00	Fly Ash
7	IWAI Haldia Jetty - Pangaon	842	2,047.00	Fly Ash
<b>35</b>	<b>Meghnaditya Waterways Pvt. Ltd.</b>			
1	Budge Budge - Narayanganj	884		Fly Ash
2	HDC Haldia-Ashuganj	954		TMT Bar
3	IWAI BTPS Jetty-2, Tribeni -Narayanganj	964	6,515.00	Fly Ash
4	IWAI Haldia Jetty - Narayanganj	826	3,494.00	Fly Ash
<b>36</b>	<b>One Shipping Agency</b>			
1	Budge Budge - Khulna	497		Fly Ash
2	Budge Budge - Narayanganj	884		Fly Ash
3	G.R. Jetty-2 - Narayanganj	909		Fly Ash
4	IWAI Haldia Jetty - Narayanganj	826		Fly Ash
5	Mongla - KPD Kolkata	510		Parts of Cranes & Other Equipments
<b>37</b>	<b>Pacific Navigation</b>			
1	BTPS Jetty, Tribeni-Khulna	577		Fly Ash
2	IWAI BTPS Jetty-2, Tribeni -Narayanganj	964		Fly Ash
<b>38</b>	<b>Sealine Shipping &amp; Logistics</b>			
1	Budge Budge - Khulna	497	4,624.00	Fly Ash
2	Budge Budge - Narayanganj	884		Fly Ash
3	G.R. Jetty-2 - Khulna	522		Fly Ash
4	G.R. Jetty-2-Mongla	509		Fly Ash
5	G.R. Jetty-2 - Narayanganj	909		Fly Ash
<b>39</b>	<b>M/s. Bharat Heavy Electricals Limited (BHEL).</b>			
1	Kolkata - Mongla	510		LP Bladed Rotor-1; LP Bladed Rotor-2; Generator Rotor
<b>40</b>	<b>M/s. Deugro Projects (India) Pvt. Ltd.</b>			
1	Kolkata - Kahalgaon	550		Generator Stator
2	Kolkata - Mirzapur, UP	1258		Ammonia Converter Pressure Shell
3	Diamond Harbour - Kahalgaon	626		Generator Stator
4	Diamond Harbour - Semaria	789		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)	2023-24	Cargo generally moved
1	2	3	4	5
41	M/s. J. M. Baxi Heavy Pvt. Ltd., Kolkata			
1	Budge Budge - Buxar	1009		Generator Stator
42	M/s. Total Movements Private Limited, Kolkata			
1	Kolkata - Semaria	713		Diesel HDT Reactor & 2nd. Diesel HDT Reactor
2	NSD Dock - Numaligarh Refinery Jetty, Assam	1876	494.00	Cryogenic Storage Tanks - 05 nos
43	M/s. Prism Logistics Pvt. Ltd.			
1	Kolkata - Buxar	984		Generator Stator
44	Eastern Navigation Pvt. Ltd.			
1	Haldia Oil Jetty-1 - Kolaghat	77		Generator (Excl. Rotor)
45	M/s. Nivriya India Pvt. Ltd.			
1	Puthimai Jetty - BTPS, Tribeni	331.5		Stone boulders
46	M/s. Lotus Shipping			
1	IWAI BISN Jetty - Narayanganj	909	15,780.00	Fly Ash
2	IWAI Haldia Jetty - Khulna	439	1,886.00	Fly Ash
3	IWAI Haldia Jetty - Narayanganj	826	10,857.00	Fly Ash
4	T.T. Shed - Khulna	523	4,779.00	Fly Ash
5	T.T. Shed - Narayanganj	910	5,029.00	Fly Ash
47	M/s. L & T GeoStructure Private Limited			
1	Kalyani, Tribeni (Bandel) - Pandu, Assam	1627	617.00	ODC- D.J.B – L&T JB113
48	M/s CJ Darcl Logistics Limited			
1	Mongla, Bangladesh - NSD Dock, India	509	45.33	ODC
49	M/s Prism Logistics Pvt. Ltd., Kolkata			
1	Kolkata to Simaria	713	900.00	Reactor
<b>Sub Total (C)</b>			<b>46,50,510.85</b>	
<b>D</b>	<b>KOPT</b>			
1	Sagar- KPD	146	1799000	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.
2	Diamond Harbour - KPD	78	1553000	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
<b>Sub Total (D)</b>			<b>33,86,000.00</b>	

Table No. 2.2

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

Sl. No.	River/Stretch	Approximate Distance (Kms)	2023-24	Cargo generally moved
1	2	3	4	5
<b>E</b>	<b>Traffic from River Sone to NW-1</b>			
1	D/s Koelwar (NW-94) to Rahariya Ghat, Doriganj (NW-1)	23	1,62,300.00	Yellow Sand
2	D/s Koelwar (NW-94) to Mahua Ghat, Doriganj (NW-1)	22	1,39,500.00	Yellow Sand
3	D/s Koelwar (NW-94) to Masan Ghat, Doriganj (NW-1)	21	1,78,390.00	Yellow Sand
4	D/s Koelwar (NW-94) to Doriganj Ghat (NW-1)	20	1,89,000.00	Yellow Sand
5	D/s Koelwar (NW-94) to Maliya Ghat, Doriganj (NW-1)	19	1,70,890.00	Yellow Sand
6	D/s Koelwar (NW-94) to Tiwari Ghat, Doriganj (NW-1)	18	1,66,390.00	Yellow Sand
7	D/s Koelwar (NW-94) to Pahleza (NW-1)	38	1,01,660.00	Yellow Sand
8	D/s Koelwar (NW-94) to Sabalpur (NW-1)	41	97,200.00	Yellow Sand
	<b>Sub Total (E)</b>		<b>12,05,330.00</b>	
<b>F</b>	<b>Unorganized Movement (NW-1)</b>			
1	Kahalgao to Tintanga	6	6,066.10	Passenger/Food, Vegetable, Moter Cycle, Bicycle etc
2	Sultanganj to Aguwani Ghat, (Sultanganj)	1	5,640.70	
3	Kacchidargah to Raghupur Diyara	1	8,243.14	
4	Doriganj to Bidupur	58	55,385.00	Sand
5	Doriganj to Fatuha	61	39,000.00	Sand
6	Digha to Nakta Diyara	1	8,727.46	Passenger/Food, Vegetable, Moter Cycle, Bicycle etc
7	Nasiriganj to Panapur	1	1,030.80	
8	Sherpur to Mahua Ghat, Doriganj	20	22,650.00	Sand
9	Sherpur to Masan Ghat, Doriganj	19	22,650.00	
10	Sherpur to Doriganj Ghat	18	22,650.00	
11	Sherpur to Bidupur	40	7,200.00	
12	Sherpur to Fatuha	43	3,600.00	
13	Sherpur to Pahleza	14	14,400.00	
14	Sherpur to Sabalpur	17	14,400.00	
15	Ratantola (Vyapur) to Doriganj		60,000.00	
16	Ujjiyar Ghat, Buxar to Jahaj Ghat, Buxar	1.5	10,963.80	Passenger
17	Ghazipur (Collector Ghat) to Saraiya (Sandture)	1	593.64	
18	Zamania to Dharamar pur	1	632.70	
19	Chochakpur to Naguan	1	642.60	
20	Saidpur to Hasanpur (Sandture)	1	587.10	
21	Kaithy to Tanda Kalan	1	661.20	
22	Balua Ghat to Sapsaul	1	628.84	
23	Rajghat to Domri	1	639.18	
24	Ravidas Ghat to Ramnagar (Sandture)	1	757.80	
25	Ramnagar to Samne Ghat	1	692.64	
26	Ravidas Ghat to Namu Ghat	1	677.10	
27	Unorganized Ro-Ro/Cross Bank movements in West Bengal	0.5	12,08,367.11	Passengers and household goods
28	Balagarh - Sahebdanga - Balagarh		4,58,545.19	Goods/vehicals
29	Guptipara - Shantipur - Guptipara		62,603.38	Goods/vehicals
30	Kalna - Nrisinghapur - Kalna		4,68,712.88	Goods/vehicals
31	Kamalanagar - Bhebadanga - Kamalanagar		23,928.05	Goods/vehicals
32	Agradwip - Agradwip RS - Agradwip		2,382.58	Goods/vehicals
33	Daihat - Metiary - Daihat		2,44,814.25	Goods/vehicals
34	Katwa - Ballabhpara - Katwa		6,02,119.00	Goods/vehicals

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)	2023-24	Cargo generally moved
1	2	3	4	5
34	Palassey - Ramnagar - Palassey		1,57,942.10	Goods/vehicals
35	Narkelbari - Maganpara - Narkelbari		1,49,225.38	Goods/vehicals
36	Rajmahal - Manikchak - Rajmahal		1,53,700.00	Goods/vehicals
37	Garamghat - Manihari - Garamghat		6,55,000.00	Goods/vehicals
	<b>Sub Total (F)</b>		<b>44,96,459.70</b>	
<b>G.</b>				
<b>1</b>	<b>M/s. J.H. Parabia (Transport) Pvt. Ltd</b>			
1	Diamond Harbour - Fauta Jetty	875	378.00	ODC - Generator Stator
<b>2</b>	<b>M/s Prism Logistics Pvt. Ltd.</b>			
1	Diamond Harbour - Semaria	789	900.00	ODC - Coke Chambers – 450.0 MT x 2 nos.
<b>3</b>	<b>M/s. National Trailer Transport Company</b>			
1	Kolkata - Farakka	398	250.95	ODC - Grinding Table – 01 wt 106.950 mt and Gear Box 01 wt 144.0 mt
	<b>Sub Total (G)</b>		<b>1,528.95</b>	
<b>H.</b>	<b>Traffic from NW-86 to NW-97 through NW-1 (Unorganized)</b>			
1	Mayachar - Namkhana/Bakkhali	77	22,104.00	Bricks
2	Mayachar - Patharprotima	106	14,832.00	Bricks
3	Mayachar - Kachuberia	63	6,480.00	Bricks
<b>1</b>	<b>M/s Prism Logistics Pvt. Ltd.</b>			
1	Kolaghat (NW-86) - Budge Budge (NW-1)	72	263.50	ODC - 315 MVA Transformer
2	Kolkata to Semaria	713	900.00	Reactor
	<b>Sub Total (H)</b>		<b>44,579.50</b>	
<b>Total (NW-I)</b>			<b>1,28,24,112.00</b>	

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

A	Organised Cargo	32	19,767.29	Crushed stone, Stone chips, Coal, Stone Boulder , ODC:- 1. 1P30-RB-
B	IWTD Assam			
C	Unorganised Sector	20	5,69,721.71	Passenger, Bi-cycle, M.Cycle, Vehicles, Passenger Goods, etc.
	<b>Sub Total (A+B+C)</b>		<b>5,89,489.00</b>	
<b>Total (NW-2)</b>			<b>5,89,489.00</b>	

Table No. 2.2

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

Sl. No.	River/Stretch	Approximate Distance (Kms)	2023-24	Cargo generally moved
1	2	3	4	5
<b>A.</b>	<b>CHAMPAKARA CANAL</b>			
1	KSINC			
1	Q10 Berth-CPT-Fact, CD	21	70,553.59	Sulpher,Rock Phosphate,Phosphoric Acid
2	LOTS Shipping & Trading			
3	Q10 Berth-CPT-Fact, CD	21	1,50,578.00	Phopharic Acid,Sulphur,Rock Phosphate
3	Kerala Backwater Navigation			
1	FACT,PD- FACT, CD	21	19,048.00	LAG
2	FACT Ammonia Jetty W.Island - FACT (CD)	21	23,008.00	LAG
3	FACT , Ammonia jetty- FACT, PD( via mattancherry channel)	22	4,608.00	LAG
4	W. Island ammonia jetty to FACT(CD)	22	2,688.00	LAG
4	FACT Ltd.*			
1	W. Island ammonia jetty to FACT(CD)	22	44,520.00	LAG
2	FACT,PD- FACT, CD	21	32,190.00	LAG
5	Tisha Navigation Inc.			
1	Kakanadu Terminal -Sea	21.00	6,699.00	LIQUID EFFLUENT
6	COCHIN BUNKERS			
1	IRUMBANAM TO COCHIN PORT	20.00		
2	BPCL jetty Irumbanam to COT	18.00	582.00	FUEL OIL
3	BPCL jetty Irumbanam to Q5	19.20	230.00	FUEL OIL
4	BPCL jetty Irumbanam to Q6	19.30	430.00	FUEL OIL
5	BPCL jetty Irumbanam to Q4	22.50	756.00	FUEL OIL
6	BPCL jetty Irumbanam to Q8	18.80	25.00	FUEL OIL
7	BPCL jetty Irumbanam to CSL	16.00	281.00	FUEL OIL
8	BPCL jetty Irumbanam to NTB	18.00		FUEL OIL
9	BPCL jetty Irumbanam to NCB	22.40	359.00	FUEL OIL
10	BPCL jetty Irumbanam to OPL	21.00	1,361.00	FUEL OIL
11	Irumbanam - Q1 BERTH			
12	BPCL jetty Irumbanam to Q7	19.00	289.00	FUEL OIL
13	BPCL jetty Irumbanam to Q10	18.00	473.00	FUEL OIL
14	BPCL Jetty Irumbanam - BTP	21.50	375.00	FUEL OIL
15	Fact UD to Fact CD	21.00	559.00	Sulphuric acid
16	Q10 berth CPT to FACT CD	21.00	1,86,878.00	Sulphuric acid, Phosphoric Acid
17	Q10 berth CPT to FACT UD(in Ch. Canal)	21.00		Sulphuric Acid
18	Cochin Port to FACT CD	21.00		Sulphuric acid
19	Kakkanad to OPL	21.00		Phosphoric Acid
20	BPCL jetty Irumbanam to Q1	23.00	875.00	FUEL OIL
21	BPCL jetty Irumbanam to Q10	18.00		FUEL OIL
22	BPCL jetty Irumbanam to IOC	17.20		FUEL OIL
23	BPCL jetty Irumbanam to Fine Arts Jetty	17.20	2,384.00	FUEL OIL
24	BPCL jetty Irumbanam to South Naval Jetty	16.00		FUEL OIL
25	Q10 to Q1 Berth	5.00		Sulphuric Acid
26	BPCL jetty Irumbanam to Lakshadweep Jetty	21.20	19.00	FUEL OIL
27	BPCL jetty Irumbanam to Thevara	24.00	5.00	FUEL OIL
28	BPCL jetty Irumbanam to SCB	23.00	244.00	FUEL OIL
29	BPCL jetty Irumbanam to ICTT	21.00	54.00	FUEL OIL
30	BTP to OPL	2.00	1,335.00	FUEL OIL



Table No. 2.2

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

Sl. No.	River/Stretch	Approximate Distance (Kms)	2023-24	Cargo generally moved
1	2	3	4	5
31	Q1 to OPL	3	1,749.00	FUEL OIL
32	Fine Arts Jetty to OPL	4	449.00	FUEL OIL
33	Fine Arts Jetty to Q10 Berth	0.7	200.00	FUEL OIL
34	NCB to OPL	2	200.00	FUEL OIL
35	Q4 to Thevara	6.4	75.00	FUEL OIL
36	BTP to BTP	0.015	320.00	FUEL OIL
37	OPL to Thevara	18	140.00	FUEL OIL
38	Q1 to ICTT	3	1,098.00	FUEL OIL
39	NCB to Q1	1	460.00	FUEL OIL
40	NCB to ICTT	2	300.00	FUEL OIL
41	NCB to Cochin Anchorage Area	2	1,300.00	FUEL OIL
42	BTP to NCB	1	500.00	FUEL OIL
43	Q1 to COT	5	1,198.00	FUEL OIL
44	Q4 to COT	4.3	848.00	FUEL OIL
45	Q2 to BTP	1.5	722.00	FUEL OIL
46	Q1 to BTP	1.5	750.00	FUEL OIL
47	NCB to BTP	1	310.00	FUEL OIL
<b>7</b>	<b>BHARAT CHEMICALS</b>			
1	FINE ARTS JETTY TO OUTER SEA(OPL)	4	18,436.00	VLSFO, LSFO
2	FINE ARTS JETTY TO BERTH	4	13,882.00	VLSFO, LSFO
<b>8</b>	<b>SHINY SHIPPING</b>			
1	BTP to Ambajetty	4.2		LSHFHSD
2	BTP to CSL	5.6	25	LSHFHSD
3	BTP to Q8	2.8	30	FO, LSHFHSD
4	BTP to Q10	3.2	1049	LSHFHSD, VLSFO
5	BTP to OPL	2	12608	VLSFO,LSHFHSD,FO
6	BTP to Q6	3.7	636	LSHFHSD, HSFO
7	BTP to BTP	0.015		LSHFHSD
8	BTP - ICTT	2	2491	VLSFO
9	NCB TO BTP	1	164	LSHFHSD, VLSFO
10	NCB TO Q6	2.9	750	LSHFHSD, VLSFO
11	NCB TO Q5			
12	NCB to Q8	3.75		LSHFHSD
13	NCB TO ICTT	2	280	VLSFO
14	NCB to Q10 berth	4		LSHFHSD
15	NCB to OPL/Outer Sea	2		VLSFO,LSHFHSD,FO
16	NCB to South Naval Jetty	6	1314	LSHFHSD
17	NCB to CSL	6	607	VLSFO, LSHFHSD
18	NCB TO OPL	2	1370	VLSFO,LSHFHSD,FO
19	NCB to Ambajetty	5		LSHFHSD
20	Q4 to COT	4.3	799	VLSFO
21	Q4 Berth to OPL	2.5	150	LSHFHSD, VLSFO
22	Q4 Berth to BTP	1		VLSFO
23	Q4 Berth to ICTT Vallarpadam	2.3		VLSFO

Table No. 2.2

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

Sl. No.	River/Stretch	Approximate Distance (Kms)	2023-24	Cargo generally moved
1	2	3	4	5
22	Q1 berth to South Naval Jetty	6.5	1,096.00	LSHFHSD
23	Q1 Berth to ICTT Vallarpadam	3	879.00	VLSFO
24	Q1 to Q6	3.8	599.00	VLSFO,LSHFHSD
25	Q1 Berth to Q8	4.5		LSHFHSD
26	Q1 to Q5	3.6		VLSFO
27	Q1 Berth to BTP	1.5		VLSFO
28	Q1 Berth to OPL	3	3,014.00	VLSFO
29	Q1 Berth to COT	5	1,345.00	VLSFO,
30	Q1 to Q10 Berth	5		VLSFO
31	BTP to Q7	2.6	203.00	LSHFHSD
32	BTP to Q5	2	6.00	LSHFHSD
33	Q1 TO Q10	5	149.00	VLSFO
34	Q1 TO Q7	4.2	217.00	LSHFHSD
35	Q1 TO COT	5	399.00	VLSFO
36	Q1 to Cochin Anchorage Area	3	348.00	HFHSD
37	FINE ARTS JETTY TO Q8 BERTH	2	500.00	VLSFO
38	SCB to Cochin Anchorage Area	3	50.00	HFHSD
39	FINE ARTS JETTY to Cochin Anchorage Area	4	3,089.00	VLSFO
40	NCB to Cochin Anchorage Area	2	2,479.00	VLSFO
41	NCB to Lakshadweep Jetty	0.5	206.00	LSHFHSD
42	NCB to UTL Jetty	1.5	3.00	HFHSD
43	NCB to Q3 Jetty	6	500.00	HFHSD
44	NCB to Q9	4	164.00	HFHSD
45	NCB to Q2	0.5	34.00	LSHFHSD
<b>Sub Total (A)</b>			<b>6,31,896.59</b>	
<b>B.</b>	<b>UDYOGMANDAL CANAL</b>			
<b>1</b>	<b>LOTS Shipping &amp; Trading*</b>			
1	Q10 CPT-Fact, UD	20	15,331.00	Phosphoric Acid, Sulphur
<b>2</b>	<b>KSINC*</b>			
1	RO-RO SERVICE BETWEEN BOLGATTY TO WILLINGTON ISLAND	3.7	7,88,615.91	VARIOUS COMMODITIES IN CONTAINERS, CARS BIKES, TWO
2	COT - Bolgatty		574.00	Sludge Oil, Concrete mix
3	NTB , COT Berth Cochin port Bolgatty	10	84.00	Sludge Oil
<b>3</b>	<b>Kerala Back Water Navigation</b>			
1	Fact ,PD - FACT, CD	14.5	21,512.00	LAG
2	FACT Ammonia jetty, W. Island -FACT,PD	14.5	19,968.00	LAG
3	FACT Ammoniajetty W.island - FACT UD	20		LAG
4	Fact PD - Fact Ammonia Jetty	14.5	3,648.00	LAG
<b>4</b>	<b>Cochin Bunkers</b>			
1	Fact UD to Cochin Port	15		Sulphuric Acid
2	FACT UD - FACT CD	15	559.00	Sulphuric Acid
<b>5</b>	<b>FACT Ltd.*</b>			
1	FACT ammoniajetty W.island - FACT UD	20		LAG
2	FACT Ammonia jetty, W. Island -FACT,PD	14.5		LAG
3	FACT,PD-FACT,CD		31,110.00	LAG

Table No. 2.2

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

Sl. No.	River/Stretch	Approximate Distance (Kms)	2023-24	Cargo generally moved
1	2	3	4	5
4	FACT PD to FACT Amonia Jetty	14.5	32,824.00	LAG
	<b>Sub Total (B)</b>		<b>9,14,225.91</b>	
<b>C.</b>	<b>THE WEST COASTAL CANAL</b>			
<b>1</b>	<b>KMML Ltd.</b>			
1	TCC - KMML	133		
2	KMML Chavara East Bank- KMML Chavara	0.03	7,54,901.00	Sand
3	KMML Chavara East Bank- KMML Chavara	0.03	1,33,361.00	General Cargo
	<b>Subtotal(West Coast Canal)</b>		<b>8,88,262.00</b>	
<b>D</b>	<b>Passenger Cargo (NW-3)</b>			
1	KMML Chavara East Bank -KMML Chavara	0.03	17,977.20	Passenger
2	Ernakulam - Varappuzha	13.5	2,072.64	Passenger
3	Ernakulam-Fortkochi	3.5	1,44,157.62	Passenger
4	Ernakulam-Vypin	3.5	32,560.02	Passenger
5	Ernakulam-Mulavukad	3.5	9,052.20	Passenger
6	Alappuzha - Nedumudi	14	10,079.76	Passenger
7	Alappuzha- Kainakari	3.3	10,326.54	Passenger
8	Alappuzha -Kainakri Road	3.3	9,309.84	Passenger
9	Alappuzha - Venattukadu	2	11,241.54	Passenger
10	Alappuzha- Pathiramanal	13	2,129.76	Passenger
11	Muhamma - Kumarakam	6.8	12,466.08	Passenger
12	Muhamma -Maniyaparambu	4.5	2,949.96	Passenger
13	Pulinkunnu-Alappuzha	3	23,939.70	Passenger
14	Nedumudi-Alappuzha	3.5	78,885.78	Passenger
15	Kollam-Plavara	1.5	8,806.44	Passenger
16	Kollam-Pezhamthuruth	6	11,574.36	Passenger
17	Kollam-Kureepuzha	3	3,807.90	Passenger
18	Vaikom-Thavanakkadavu	2.5	1,11,637.56	Passenger
19	Panavalli-South Paravoor	4	27,963.54	Passenger
20	Panavalli-Poothotta	2	56,784.84	Passenger
21	Panavalli-Perumpalam market	2	27,569.22	Passenger
	<b>Sub-total(passenger)</b>		<b>6,15,292.50</b>	
<b>E</b>	<b>Un-Organised Cargo (NW-3)</b>			
1	Pullangadithodu-Nalluchira	12.1	2,000.00	Rubble
2	Pullangadithodu-Nalluchira	12.1	1,115.00	M-sand
3	Pullangadithodu-Nalluchira	12.1		Aggregate
4	Pullangadithodu-Nalluchira	12.1	1,095.00	Cement
5	Pallathuruth-Zero Jetty	12.1	1,800.00	Rubble
6	Pallathuruth-Zero Jetty	12.1	1,105.00	Aggregate
7	Pallathuruthy Jetty - Meerappattipadam	1.1	740.00	Rubble
8	Pallathuruthy Jetty - Meerappattipadam	1.09		Gravel
9	Pallathuruthy Jetty - Meerappattipadam	1.09	1,220.00	M-sand
10	Pallathuruthy Jetty -Kannattipadam	2.3	1,480.00	Rubble
11	Pallathuruthy Jetty -Kannattipadam	2.3	400.00	Paddy

Table No. 2.2

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

Sl. No.	River/Stretch	Approximate Distance (Kms)	2023-24	Cargo generally moved
1	2	3	4	5
12	Pallathuruthy Jetty -Kannattipadam	2.2	2,100.00	Aggragate
13	Pallathuruthy Jetty -Kannattipadam	3.2	1,130.00	M-sand
14	Karumadi - Mannappara	3.5		Rubble
<b>Sub-total(un-organised)</b>			<b>14,185.00</b>	
<b>F</b>	<b>Fish Cargo (NW-3)</b>			
1	OPL-Munambam	1.5		Fish
2	OPL-Munambam	1.5		Fish
3	Kochi Sea Mouth-Thoppumpady Harbour	4.8	53,886.00	Fish
4	Munambam Sea Mouth- Munambam Harbour	1.5		Fish
5	Kochi Sea Mouth - Vypeen Harbour	1		Fish
6	Kayamkulam Sea Mouth - Azheekkal Harbour	0.05		Fish
7	Sea (Distance upto Sea Mouth) - Thoppumpady Harbour	4.8		Fish
8	Sea (Distance upto Sea Mouth) - Munambam Harbour	1.5	87,219.50	Fish
9	Sea (Distance upto Sea Mouth) - Vypeen Harbour	1	54,239.00	Fish
10	Sea (Distance upto Sea Mouth) - Azheekkal Harbour	0.05	33,336.50	Fish
<b>Sub-total(fish)</b>			<b>2,28,681.00</b>	
<b>Total (NW-3)</b>			<b>32,92,543.00</b>	

## Details of Cargo Moved on PIWTT Routes 5 &amp; 6 (Ganga River in India and Padma River in Bangladesh)

<b>PIWTT Routes (5 &amp; 6) (Ganga River - Padma River)</b>				
<b>1</b>	<b>Rivering Shipping &amp; Logistics</b>			
1	Maia Riverine Port (INLGL1), India - Sultanganj, Bangladesh	20.5	230.00	Stone Chips
2	Sultanganj, Bangladesh - Maia Riverine Port (INLGL1), India	20.5	11.72	Garments Waste Cotton
<b>2</b>	<b>Ajbela Navigation</b>			
1	Maia Riverine Port (INLGL1), India - Sultanganj	20.5	183.00	Stone Chips
<b>Total</b>			<b>424.72</b>	

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

<b>UN-ORGANISED CARGO</b>				
1	Narakathara - Kozhichalchira	1.2	705.00	Cement
2	Narakathara - Kozhichalchira	1.2	2,950.00	Hollow Bricks
<b>Sub-total</b>			<b>3,655.00</b>	
<b>Passenger cargo</b>				
1	Alappuzha Boat Jetty - Kavalam	13.3	11,728.56	Passenger
2	Alappuzha Boat Jetty - Changanassery	29	20,286.18	Passenger
<b>Sub Total</b>			<b>32,014.74</b>	
<b>Total(NW-8)</b>			<b>35,669.74</b>	

**Table No. 2.2 Details of Cargo Moved on National Waterways (National Waterway No. 9)**

Sl. No.	River/Stretch	Approximate Distance (Kms)	2023-24	Cargo generally moved
1	2	3	4	5
	<b>UN-ORGANISED CARGO</b>			
1	Mangalassery - H Block	9.5	2,335.00	Sand
2	Mangalassery - H Block	9.5	2,245.00	Rubble
	Sub-total		4,580.00	
	<b>Passenger cargo</b>			
1	Alappuzha Boat Jetty - Kottayam	25	10,453.26	Passenger
2	Kottayam -Alappuzha Boat Jetty	25	6,536.64	Passenger
	Sub Total		16,989.90	
	<b>Total(NW-9)</b>		<b>21,569.90</b>	

**Details of Cargo Moved on National Waterways (National Waterway No.44)- ICHAMATI RIVER**

<b>A</b>	<b>Movement of goods by Un-organized sector</b>			
1	Basirhat (NW-44) - Dayapur/Satjelia (NW-97)	80	1,44,691.74	Bricks / Stone chips / Sand (Red) / Cement
2	Basirhat (NW-44) - Pathankhali/Basanti/Gosaba (NW-97)	80	2,38,920.74	Bricks / Stone chips / Sand (Red) / Cement
3	Basirhat (NW-44) - Namkhana/Bakkhali (NW-97)	185	26,627.61	Bricks
4	Basirhat (NW-44) - Itinda Ghat (NW-44)	2.5	69,656.62	Sand (local River)
5	Dhaltitha (NW-44) - Itinda Ghat (NW-44) Cross Bank Movement	0.3	4,277.40	Motor cycles
	<b>Total</b>		<b>4,84,174.12</b>	

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

<b>1</b>	<b>M/s Prism Logistics Pvt. Ltd.</b>			
1	Kolaghat (NW-86) - Budge Budge (NW-1)	72	263.50	ODC - One no. 500 MVA, 400/220/33 KV IC Transformer
<b>2</b>	<b>M/s. Kataria Carriers</b>			
1	Kolaghat (NW-86) - NTPC, Farakka (NW-1)	499		ODC - 315 MVA Transformer
<b>3</b>	<b>Movement of goods by Un-organized sector</b>			
1	Mayachar - Kolaghat	27	22,968.00	Bricks
2	Mayachar - Bakshi	39	12,096.00	Bricks
3	Mayachar -Gopiganj	45	13,464.00	Bricks
4	Mayachar -Namkhana/Bakkhali	77	22,104.00	Bricks
5	Mayachar -Patharprotima	106	14,832.00	Bricks
6	Mayachar - Kachuberia	63	6,480.00	Bricks
7	Bakshi - Kolaghat	12	6,883.69	Sand
	<b>Total</b>		<b>99,091.19</b>	

### Details of Cargo Moved on National Waterways (National Waterway No.97)- Sunderbans Waterway

Sl. No.	River/Stretch	Approximate Distance (Kms)	2023-24	Cargo generally moved
1	2	3	4	5
	<b>Ro Ro Services by P.W. (Roads) Directorate, Govt. of West Bengal. (Muri Ganga river, including traffic during Ganga Sagar mela-2023)</b>			
	Lot No-8 - Kachuberia - Lot No-8	5	82,127.910	Ro Ro Services
	<b>Cargo movement in India-Bangladesh Protocol Routes 1,2,3 &amp; 4 through NW-97 (Sunderbans Waterway)</b>			
	Basirhat - Dayapur/Satjelia	80	1,44,691.736	Bricks, Stone chips, Sand (Red), Cement
	Pathankhali/Basanti/Gosaba	80	2,38,920.744	Bricks, Stone chips, Sand (Red), Cement
	Namkhana/Bakkhali	181.5	26,627.614	Bricks
	Traffic of India-Bangladesh Protocol Routes 1,2,3 & 4 through NW-97	176	46,49,610.846	
	Cargo movement from NW-86 to NW-97 (Un-organized sector)			
	Mayachar - Kachuberia	63	6,480.000	Bricks
	Mayachar -Namkhana/Bakkhali	77	22,104.000	Bricks
	Mayachar -Patharprotima	106	14,832.000	Bricks
<b>Total</b>			<b>51,85,394.850</b>	
Source : Inland Waterways Authority of India (IWAI)				

**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 2024)

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	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	
		2024	0	104	4	9	117	12	0	0	0	0	12	129	
2	Bihar	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	
		2024	0	0	0	10	10	0	0	0	0	0	0	10	
3	Goa	2022	90	130	7	6	233	0	0	0	0	0	0	233	
		2023	57	172	18	6	253	-	-	-	-	-	0	253	
		2024	36	229	-	6	271	6	-	-	-	-	6	277	
4	Karnataka	2022	-	-	-	-	0	-	-	-	-	-	0	0	
		2023	-	81	31	-	112	300	-	-	-	-	300	412	
		2024	-	81	31	-	112	300	-	-	-	-	300	412	
5	Kerala	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	
		2024	5	64	6	0	75	14	0	0	284	6306	6604	6679	
6	Maharashtra	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	
		2024	177	1105	23	115	1420	77	8	33	0	5	123	1543	
7	Odisha	2022	-	66	-	66	-	-	-	-	-	0	66		
		2023	-	66	-	66	-	-	-	-	-	0	66		
		2024	-	572	-	572	-	-	-	-	-	0	572		
8	West Bengal	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	
		2024	128	326	18	62	534	28	6	4	Nil	Nil	38	572	
9	Tamil Nadu	2022	-	-	-	-	-	-	-	-	-	-	-	-	
		2023	-	-	-	-	-	-	-	-	2	-	2	2	
		2024	-	-	-	-	-	-	-	-	2	-	2	2	
10	Gujarat	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	
		2024	148	28	3	131	310	49	0	1	8	18	76	386	
11	Jharkhand*	2022						NA							
		2023						NA							
12	Uttar Pradesh	2023	0	0	0	0	NA	0	0	0	0	NA	NA	NA	
		2024	0	2	2	0	4	0	0	0	0	0	0	4	
Grand Total		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	
		2024	494	1939	659	333	3425	486	14	38	294	6329	7161	10586	

Source : State Governments

@@ Others includes country boats

\* Information for the year 2023-24 has not received.



Table No. 3.2

**Number of Passengers Carried By Inland Water Vessels**  
(Year Ending 31st March 2024)

Sl. No.	State	Year	Powered Vessels Employed for passengers (Nos.)	Total No. of passengers carried (000)
1	2	3	4	5
1	Assam	2020	98	6585.91
		2021	76	1979.20
		2022	66	4385.95
		2023	70	3155.38
		2024	108	4537.58
2	Bihar	2020	83	578.00
		2021	N.A	N.A
		2022	0	0.00
		2023	0	0.00
		2024	11	0.16
3	Karnataka	2020	37	1617.00
		2021	37	916.25
		2022	46	928.02
		2023	-	1283.79
		2024	31	1076.61
4	Kerala	2020	74	20535.31
		2021	63	8874.78
		2022	104	19224.53
		2023	103	20262.39
		2024	65	19203.25
5	Maharashtra	2020	-	15922.30
		2021	-	9106.53
		2022	-	13667.60
		2023		18724.02
		2024		18517.30
6	Odisha	2020	11	131.22
		2021	11	131.22
		2022	18	118.41
		2023	18	118.41
		2024	18	163.42
7	West Bengal	2020	335	116880.00
		2021	378	126980.00
		2022	332	136369.00
		2023	53	29762.61
		2024	45	15008.47
8	Jharkhand*	2021	**	**
		2022		N.A.
		2023		N.A.
9	Uttar Pradesh	2023	3	23.86
		2024	2	42.17

Source : State Governments

: Not Available-

\* Information for the year 2023-24 has not received.

\*\* 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 2024)**

Sl. No.	Company/ Undertaking and Year	Self Propelled				Non-Self Propelled
		Type of vessel		Carrying capacity		
		Cargo (No.)	Passenger (No.)	Cargo(in thousandTonnes)	Passenger(in No.)	(Dumb Barges) (No.)
1	2	3	4	5	6	7
1	S.V.Salgaocar					
	2022	1	-	1.32	-	N.A.
	2023	1	-	1.32	-	N.A.
	2024	1	-	1.32	-	N.A.
2	V.M.Salgaocar Sales International					
	2022	2	-	2.81	-	N.A.
	2023	2	-	2.81	-	N.A.
	2024	2	-	2.81	-	N.A.
3	Sesa Resource Ltd.					
	2022	2	-	2.14	NA	N.A.
	2023	2	-	2.14	NA	N.A.
	2024	2	-	2.14	NA	N.A.
4	Vedanta Ltd.					
	2022	31	1	42.65	88	NA
	2023	31	1	42.72	88	NA
	2024	21	1	29.33	88	NA
5	Jindal ITF Ltd.					
	2022	28	-	-	-	-
	2023	25	-	-	-	-
	2024	25	-	34.39	-	Nil
6	Kottayam Port and Container Terminal Pvt. Ltd.					
	2022	1	-	0.16	-	Nil
	2023	1	-	0.16	-	Nil
	2024	1	-	0.16	-	Nil
7	Maharshi Shipping Co.					
	2022	6	-	-	-	-
	2023	6	-	-	-	-
	2024	4	-	-	-	-
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					
	2022	8	78	-	-	-
	2023	3	25	-	-	-
	2024	4	36	-	-	-
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.					
	2022	36	2	-	-	-
	2023	36	2	-	-	-
	2024	9	-	2.82	-	25
14	Ghatal Steam Navigation (P) Ltd., Kolkata*					
	2021	-	4	-	335710	-
	2022	-	4	-	-	-
	2023	-	-	-	-	-

**IWT Vessels With Valid Certificates of Survey-Owned By Responding  
Private Companies/Undertakings By Type (As on 31st March 2024)**

**Table No. 4.1**

Table No. 4.1 Private Companies/Undertakings By Type (As on 31st March 2024)						
Sl. No.	Company/ Undertaking and Year	Self Propelled				Non-Self Propelled
		Type of vessel		Carrying capacity		
		Cargo (No.)	Passenger (No.)	Cargo(in thousandTonnes)	Passenger(in No.)	(Dumb Barges) (No.)
1	2	3	4	5	6	7
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.					
	2022	-	4	-	122	NA
	2023	-	4	-	122	NA
	2024	-	4	-	114	-
20	M/s Pennon Shipping Pvt. Ltd.					
	2022	1	-	1.80	Nil	Nil
	2023	1	-	1.80	Nil	Nil
	2024	1	-	1.80	Nil	Nil
21	Ganges Water Transport Co. Pvt. Ltd.					
	2022	2	-	5.30	-	NA
	2023	2	-	5.31	-	-
	2024	2	-	5.30	-	-
22	Krishna Shipping & Logistics*					
	2021	5	-	2.08	-	5
	2022	4	-	1.99	-	5
	2023	5	-	2.08	-	7
23	JSW Salav Steel Ltd.					
	2022	NA	NA	NA	NA	NA
	2023	1	-	0.01	-	-
	2024	1	-	0.01	-	NA
24	Finolex Industries Ltd.					
	2022	2	-	0.03	18	NA
	2023	2	-	0.03	18	NA
	2024	2	-	0.03	18	NA
25	Jsw Jaigarh Port Ltd.					
	2022	4	-	21.06	Nil	Nil
	2023	4	-	21.06	Nil	Nil
	2024	4	-	21.06	Nil	Nil
26	The Fertilizers and Chemicals Travancore Limited					
	2022	1	-	0.42	-	-
	2023	1	-	0.42	-	NA
	2024	2	-	0.83	-	NA
27	Infrastructure Logistics Pvt. Ltd.					
	2022	6	-	329.73	-	-
	2023	4	-	218.60	NA	-
	2024	2	-	110.00	NA	-

**IWT Vessels With Valid Certificates of Survey-Owned By Responding  
Private Companies/Undertakings By Type (As on 31st March 2024)**

**Table No. 4.1**

Table No. 4.1		Private Companies/Undertakings By Type (As on 31st March 2024)				Non-Self Propelled  (Dumb Barges) (No.)
Sl. No.	Company/ Undertaking and Year	Type of vessel		Carrying capacity		
		Cargo (No.)	Passenger (No.)	Cargo(in thousandTonnes)	Passenger(in No.)	
1	2	3	4	5	6	7
28	Kerala Shipping & Inland Navigation Co. Ltd.					
	2022	11	3	3.62	584	-
	2023	11	5	3.87	784	-
	2024	10	4	3.39	738	-
29	M/sTimblo Pvt. Ltd.					
	2022	2	-	0.09	14	Nil
	2023	1	1	0.09	14	Nil
	2024	1	1	0.09	14	Nil
30	Backwater Navigation Co.					
	2022	1	-	0.19	-	NA
	2023	1	-	0.19	-	NA
	2024	1	-	0.19	-	NA
31	Adventure Resorts & Cruises Pvt. Ltd.					
	2022	Passenger	2	NA	64	NA
	2023	Passenger	2	1.21	64	NA
	2024	Passenger	2	1.21	64	NA
32	K.K. Shipping					
	2022	1	-	0.27	-	Nil
	2023	1	-	0.40	Nil	Nil
	2024	1	-	0.43	Nil	Nil
33	Haldia Nirman Projects Pvt. Ltd.					
	2022	Nil	Nil	Nil	Nil	Nil
	2023	Nil	Nil	Nil	Nil	Nil
	2024	NA	NA	NA	NA	NA
34	Inland Coastal Shipping Ltd.					
	2022	2	-	0.60	-	NA
	2023	2	-	0.60	-	NA
	2024	2	1	0.99	100	NA
35	Heritage River Journeys Pvt. Ltd.					
	2022	-	2	-	112	-
	2023	-	3	-	148	-
	2024	-	3	-	148	-
36	Spring Professional Services Pvt. Ltd.*					
	2021	-	-	-	-	-
	2022	-	1	-	70	-
	2023	-	1	-	70	-
37	JSW Dharamtar Port Pvt. Ltd.					
	2022	Nil	Nil	Nil	Nil	Nil
	2023	Nil	Nil	Nil	Nil	Nil
	2024	Nil	Nil	Nil	Nil	Nil
38	PNP Maritime Services Pvt. Ltd.					
	2022	12	-	14.33	NA	NA
	2023	20	-	25.45	NA	NA
	2024	19	-	22.50	NA	NA
39	M/S Neli *					
	2021	-	-	-	-	-
	2022	-	-	-	-	-
	2023	1	-	0.5	Nil	-
40	TP RoyChowdhury & Co. Pvt. Ltd.					
	2022	5	-	9.15	-	Nil
	2023	5	-	9.15	Nil	Nil
	2024	5	-	9.15	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 2024)**

Private Companies/Undertakings By Type (As on 01st March 2024)						
Sl. No.	Company/ Undertaking and Year	Self Propelled				Non-Self Propelled
		Type of vessel		Carrying capacity		
		Cargo (No.)	Passenger (No.)	Cargo(in thousandTonnes)	Passenger(in No.)	(Dumb Barges) (No.)
1	2	3	4	5	6	7
41	M/s Shiny Shipping & Logistics Pvt Ltd					
	2022	2	-	1.37	-	-
	2023	2	-	1.37	-	-
	2024	2	-	2.12	-	-
42	M/s Nadi Bangla Shipping Corporation*					
	2022	Nil	Nil	Nil	Nil	Nil
	2023	-	-	-	-	-
43	Tisha Navigation					
	2023	Nil	Nil	Nil	Nil	Nil
	2024	Nil	Nil	Nil	Nil	Nil
44	Cochin Bunkers Pvt. Ltd.					
	2022	3	-	0.98	-	-
	2023	4	-	1.90	-	NA
	2024	5	-	1.76	NA	-
45	Suman Forwarding Agency Pvt. Ltd.*					
	2023	1	-	0.40	Nil	NA
46	Azzura Marine Liners Pvt. Ltd. *					
	2023	4	-	-	-	-
47	M/s Osprey Waterways (India)*					
	2023	-	1	-	156	-
48	Abul Hassan & Brothers Pvt. Ltd					
	2023	2	-	-	-	-
	2024					
49	Eminence Shipping Agencies Pvt. Ltd.*					
	2023	NA	NA	NA	NA	NA
50	Jungle Travels India Pvt. Ltd					
	2024		2		6	
51	Brahmaputra Cracker and Polymer Ltd.					
	2024	Nil	Nil	Nil	Nil	Nil
52	Pacific Navigation					
	2024	2	-	4	-	-
53	Tidal Marine Services					
	2024	Nil	Nil	Nil	Nil	Nil
54	Vivada Corporation Ltd.					
	2024	7	-	4.95	-	-
55	Netincon Logistics Pvt. Ltd.					
	2024	9	-	-	-	-
56	Bothra Group					
	2024	4	-	-	-	-
57	I.T.T. Shipping Pvt. Ltd.					
	2024	2	-	-	-	-

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

\* Data not received for the year 2023-24

**Cargo/Passenger Carried And Freight Collected - By Responding Private Companies/ Public Undertakings**  
(Year Ending 31st March 2024)

**Table No. 4.2**

Sl.No.	Company/Undertaking and Year	Type of Vessels	No. of Powered Vessels	Distance Travelled (Kms)	Freight Collected (Rs.in Lakh)	Cargo Carried		Passenger Carried	
						Cargo (in Tonnes)	TKms (in millions)	Passenger (in No.)	PKms
1	2	3	4	5	6	7	8	9	10
1	<b>S. V. Salgaocar</b>								
	2022	Cargo	1	2854	107.72	122559.72	349.73	NA	-
	2023	Cargo	1	2637	108.65	107919.97	284.62	NA	-
	2024	Cargo	1	214	9.91	9995.93	2.14	NA	-
2	<b>V.M.Salgaocar Sales International</b>								
	2022	Cargo	2	2645	98.44	116072	307.00	NA	-
	2023	Cargo	2	2581	108.82	110077	284.08	NA	-
	2024	Cargo	2	262	12.77	12190	3.19	NA	-
3	<b>Sesa Resources Ltd.</b>								
	2022	Cargo	2	9672	(c)	278573.72	2694.37	NA	-
	2023	Cargo	2	5227	Nil	134125.33	701.07	NA	-
	2024	Cargo	2	6112	Nil	175570.77	1073.09	NA	-
4	<b>Vedanta Ltd.</b>								
	2022	Cargo/Passenger	21	61135	(c)	2303667.28	140834.70	NA	-
	2023	Cargo/Passenger	20	61347	Nil	1743256.162	106943.54	NA	-
	2024	Cargo/Passenger	17	65848	Nil	2286819.45	150582.49	NA	-
5	<b>Jindal ITF Ltd.</b>								
	2022	Cargo	28	-	561.81	627850	-	-	-
	2023	Cargo	25	-	628.36	575000	-	-	-
	2024	Cargo	25	239827.5	-	328950	78891.26	-	-
6	<b>Kottayam Port &amp; Container Terminal Pvt. Ltd.</b>								
	2022	All	1	100	Nil	Nil	-	NA	-
	2023	All	1		Nil	Nil	-	Nil	-
	2024	All	1		Nil	Nil	-	Nil	-
7	<b>Maharshi Shipping Co.</b>								
	2022	Cargo	6	-	175.52	281610	-	-	-
	2023	Cargo	6	-	217.85	76699	-	-	-
	2024	Cargo	4	-	-	139907	-	-	-
8	<b>Indo-Swiss Trading Co.Pvt. Ltd.*</b>								
	2021	Pass.	2	14670	-	-	-	-	-
	2022	Pass.	2	15472	Nil	-	-	-	-
	2023	Pass.	4	-	256.53	-	-	375662	-
9	<b>VIVADA Inland Waterways Ltd.*</b>								
	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	<b>W. Bengal Surface Transport Corporation Ltd.</b>								
	2022	Pass./LCT	86	-	861.21	38213(b)	-	58178258	-
	2023	Pass./LCT	28	-	415.61	18106(b)	-	10624800	-
	2024	Pass./LCT	40	-	1350.95	71010(b)	-	15000000	-
11	<b>Hooghly Nadi Jalapath Paribahan Samabaya Samity*</b>								
	2021	Pass.	40	-	518.18	-	-	40780228	-
	2022	Pass.	40	-	525.12	-	-	41621238	-
	2023	Pass.	27	-	282.56	-	-	19137592	-
12	<b>West Bengal Tourism Development Corpn. Ltd., Kolkata*</b>								
	2021	Pass.	8	-	95.18	-	-	25750	-
	2022	Pass.	8	-	98.65	-	-	27635	-
	2023	-	-	-	-	-	-	-	-
13	<b>Eastern Navigation (P) Ltd.</b>								
	2022	Cargo/Tug/Pass.	38	-	514.31	854.42	-	7115	-
	2023	Cargo/Tug/Pass.	38	-	612.52	3795	-	8240.00	-
	2024	Cargo/Tug/Pass.	4	5000	500.00	2600	13.00	-	-
14	<b>Ghatal steam Navigation (P) Ltd. Kolkata*</b>								
	2021	Pass.	4	-	253.16	-	-	335710	-
	2022	Pass.	4	-	258.61	-	-	342621	-
	2023	-	-	-	-	-	-	-	-

**Cargo/Passenger Carried And Freight Collected - By Responding Private Companies/ Public Undertakings**  
(Year Ending 31st March 2024)

**Table No. 4.2**

Sl.No.	Company/Undertaking and Year	Type of Vessels	No. of Powered Vessels	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
15	<b>Diamond Harbour Municipality, Kolkata*</b>								
	2021	Pass.	3	-	126.12	-	-	179369	-
	2022	Pass.	3	-	131.42	-	-	191467	-
	2023	-	-	-	-	-	-	-	-
16	<b>Bengal Heritage River*</b>								
	2021	Tugs	8	-	15.16	-	-	18059	-
	2022	Tugs	8	-	19.42	-	-	22165	-
	2023	-	-	-	-	-	-	-	-
17	<b>Chandan Nagar Municipality, Kolkata*</b>								
	2021	Pass.	3	-	4.29	-	-	35702	-
	2022	Pass.	3	-	4.95	-	-	38145	-
	2023	-	-	-	-	-	-	-	-
18	<b>Soham Shipping Pvt.Ltd.*</b>								
	2021	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
	2022	Cargo	6	-	112.5	214850	-	-	-
	2023	Cargo	11	-	-	96007	-	-	-
19	<b>Assam Bengal Navigation Co. Pvt. Ltd.</b>								
	2022	Pass.	8	2577	-	-	-	280	0.72
	2023	Pass.	10	-	-	-	-	544	-
	2023	Pass.	10	3685	-	-	-	987	3.64
20	<b>M/s Pennon Shipping Pvt. Ltd.</b>								
	2022	Cargo	1	2072	-	33469	69	Nil	-
	2023	Cargo	1	21384	-	25353	542	Nil	-
	2024	Cargo	1	94725	-	58142	5508	Nil	-
21	<b>Ganges Water Transport Co. Pvt. Ltd.</b>								
	2022	Cargo	2	-	412.40	103284	-	NA	-
	2023	Cargo	2	9432.5	395.60	124788	1177.06	-	-
	2024	Cargo	2	4620	186.72	68827	317.98	-	-
22	<b>Krishna Shipping &amp; Logistics*</b>								
	2021	-	-	-	-	-	-	-	-
	2022	-	-	-	-	-	-	-	-
	2023	-	-	-	-	-	-	-	-
23	<b>JSW Salav Steel Ltd.</b>								
	2022	Cargo	4	1071	Nil	238000	254.90	NA	NA
	2023	Cargo	7	9504	Nil	418395	3976.43	NA	NA
	2024	Cargo	7	18864	Nil	831098	15677.83	NA	NA
24	<b>Finolex Industries Ltd.</b>								
	2022	NA	NA	NA	NA	NA	NA	NA	NA
	2023	NA	NA	NA	NA	NA	NA	NA	NA
	2024	NA	NA	NA	NA	NA	NA	NA	NA
25	<b>Jsw Jaigarh Port Ltd.</b>								
	2022	Cargo	4	76372	-	2297051	175430.38	-	-
	2023	Cargo	4	134663	-	2255580	303742.32	-	-
	2024	Cargo	4	184904	-	3149452	582345.26	-	-
26	<b>The Fertilizers and Chemicals Travancore Limited</b>								
	2022	Cargo	1	22876	+	70464	1611.93	-	-
	2023	Cargo	1	22838	NA(+)	64866	1481.41	NA	NA
	2024	Cargo	2	12624	NA(+)	80412	1015.08	NA	NA
27	<b>Infrastructure Logistics Pvt. Ltd.</b>								
	2022		6	4862	(d)	329725	1603.12	-	-
	2023	Cargo	4	3477	(d)	218600	760.07	NA	NA
	2024	Cargo	2	788	(d)	110000	86.68	NA	NA
28	<b>Kerala Shipping &amp; Inland Navigation Co. Ltd.</b>								
	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	-
	2024	Cargo/Passenger	9	14340	310.66	123730	1774.29	2458436	-



**Cargo/Passenger Carried And Freight Collected - By Responding Private Companies/ Public Undertakings**  
(Year Ending 31st March 2024)

**Table No. 4.2**

Sl.No.	Company/Undertaking and Year	Type of Vessels	No. of Powered Vessels	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	<b>Timblo Pvt. Ltd.</b>								
	2022	Passenger	1	222	1.29	110	33.60	-	-
	2023	Cargo/Passenger	1	593	12.46	120	89.61	-	-
	2024	Cargo/Passenger	2	148	0.96	27	22.40	-	-
30	<b>Backwater Navigation Co.</b>								
	2022	Cargo	1	24424	287.00	66048	1613.16	-	-
	2023	Cargo	1	25489	306.00	68864	1755.27	NA	NA
	2024	Cargo	1	19312	230.00	52192	1007.93	NA	NA
31	<b>Adventure Resorts &amp; Cruises Pvt. Ltd.</b>								
	2022	Passenger	2	NA	NA	NA	NA	NA	-
	2023	Passenger	2		237	-	-	315	
	2024	Passenger	2		380	-	-	338	-
32	<b>K.K. Shipping</b>								
	2022	Cargo	1	1560	13.50 e	704	1.10	-	-
	2023	Cargo	1	3120	14.50e	3809	11.88	NA	NA
	2024	Cargo	1	3120	NA	4151	12.95	NA	NA
33	<b>Haldia Nirman Projects Pvt. Ltd.</b>								
	2022	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
	2023	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
	2024	NA	NA	NA	NA	NA	NA	NA	NA
34	<b>Inland Coastal Shipping Ltd.</b>								
	2022	Cargo	2	5705	2.51	650	3.71	-	-
	2023	Cargo	2	8965	7.12245	871	7.81	Nil	Nil
	2024	Cargo/ Passenger	3	12225	90.54245	1221	14.93	Nil	Nil
35	<b>Heritage River Journeys Pvt. Ltd.</b>								
	2022	-	-	-	-	-	-	-	-
	2023	Passenger	3		-	-	-	982	
	2024	Passenger	3		-	-	-	1222	
36	<b>Spring Professional Services Pvt. Ltd.*</b>								
	2021	-	-	-	-	-	-	-	-
	2022	Passenger	1	200	0.51	-	-	180	0.04
	2023	Passenger	1	120	0.51	-	-	60	0.01
37	<b>JSW Dharamtar Port Pvt. Ltd.</b>								
	2022	-	60	707564	-	17207	12175	-	-
	2023	-	60	1065284	-	24296	25882		
	2024	-	60	1164944	-	25144.77	29292		
38	<b>PNP Maritime Services Pvt. Ltd.</b>								
	2022	-	-	-	-	3288000	-	NA	-
	2023	-	-	-	-	3382673	-	NA	-
	2024	-	-	-	-	4842526	-	NA	-
39	<b>M/S Neli *</b>								
	2021	-	-	-	-	-	-	-	-
	2022								
	2023	Cargo	1	6240	14.50e	9005	56.19	NA	NA
40	<b>TP RoyChowdhury &amp; Co. Pvt. Ltd.</b>								
	2022	Cargo	5	18237	-	298288	5439.88	Nil	-
	2023	Cargo	5	561672	-	352112	197771.45	-	-
	2024	Cargo	5	429966	-	303592	130534.24	-	-
41	<b>M/s Shiny Shipping &amp; Logistics Pvt Ltd</b>								
	2022	-	-	-	-	-	-	-	-
	2023	-	-	-	-	-	-	-	-
	2024	-	-	-	-	-	-	-	-
42	<b>M/s Nadi Bangla Shipping Corporation*</b>								
	2022	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
	2023								

**Cargo/Passenger Carried And Freight Collected - By Responding Private Companies/ Public Undertakings**  
(Year Ending 31st March 2024)

**Table No. 4.2**

Sl.No.	Company/Undertaking and Year	Type of Vessels	No. of Powered Vessels	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
43	<b>Tisha Navigation</b>								
	2023	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
	2024	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
44	<b>Cochin Bunkers Pvt. Ltd.</b>								
	2022	Cargo	3	-	-	-	-	-	-
	2023	Cargo	4	34840	498.33	219405	7644.07	-	-
	2024	Cargo	5	30055	466.35	203860	6127.01	-	-
45	<b>Suman Forwarding Agency Pvt. Ltd.*</b>								
	2023	NA	NA	NA	NA	NA	NA	NA	
46	<b>Azzura Marine Liners Pvt. Ltd.*</b>								
	2023	Passenger	4	-		154150	405	-	-
47	<b>M/s Osprey Waterways (India)*</b>								
	2023	Passenger	1		83	-	-	8000	
48	<b>Abul Hassan &amp; Brothers Pvt. Ltd</b>								
	2023	Cargo	2	-	-	25992	-	-	-
	2024	Cargo	2	-	-	53935	-	-	-
49	<b>Eminence Shipping Agencies Pvt. Ltd.*</b>								
	2023	NA	NA	NA	NA	NA	NA	NA	NA
50	<b>Jungle Travels India Pvt. Ltd</b>								
	2024	Passenger	2	760	-	-	-	99	0.08
51	<b>Brahmaputra Cracker and Polymer Ltd.</b>								
	2024	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
52	<b>Pacific Navigation</b>								
	2024	Cargo	2	2240	14	55930	125.28	-	-
53	<b>Tidal Marine Services</b>								
	2024	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
54	<b>Vivada Corporation Ltd.</b>								
	2024	Cargo/Passenger	34	69000	-	245000	16905.00	1630	112.47
55	<b>Netincon Logistics Pvt. Ltd.</b>								
	2024	Cargo	9	-	-	1403671	-	-	-
56	<b>Bothra Group</b>								
	2024	Cargo	4	-	-	619050	-	-	-
57	<b>I.T.T. Shipping Pvt. Ltd.</b>								
	2024	Cargo	2	-	-	75208	-	-	-

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 2023-24

**SECTION – 5**

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

Table No. 5.1

## YEAR WISE FINANCIAL PERFORMANCE FROM F.Y. 2021-22 TO F.Y. 2024-25

(Rs. In Crore)

Sl. No.	Budget head @ / Waterways	Financial Year			Financial Year			Financial Year			Financial Year		
		(2021-22)			(2022-23)			(2023-24)			(2024-25)		
		B.E	R.E	Exp.	B.E	R.E	Exp.	B.E	R.E	Exp. (Provisional/u naudited)	B.E	R.E	Exp.
<b>I</b>	<b>Capital Outlay - INVESTMENT</b>												
1	National Waterway-1	75.00	85.50	87.83	90.00	70.96	66.25	57.53	136.30	144.52	59.23		
2	National Waterway-3	10.00	10.20	10.83	6.00	4.00	3.64	18.75	9.50	4.78	25.65		
3	National Waterway-4	3.50	3.10	3.08	0.50	0.20	0.18	11.90	0.70	0.67	6.81		
4	National Waterway-5	3.00	2.60	2.58	1.00	1.00	0.76	19.65	26.25	26.53	7.89		
5	Others Project/ activities etc.	10.00	12.00	12.89	7.00	4.00	3.86	9.08	7.00	6.82	3.11		
6	Other NWs	0.50	0.60	0.59	1.50	1.00	0.86	1.55	2.25	2.23	28.31		
	<b>Sub Total - I</b>	<b>102.00</b>	<b>114.00</b>	<b>117.80</b>	<b>106.00</b>	<b>81.16</b>	<b>75.55</b>	<b>118.46</b>	<b>182.00</b>	<b>185.55</b>	<b>131.00</b>	<b>0.00</b>	<b>0.00</b>
<b>II</b>	Jal Marg Vikas Project (JMVP)	295.00	218.00	229.61	285.01	314.35	339.22	546.50	534.50	498.88	503.00		
	<b>Sub Total - I+II (Capital Outlay -Investments)</b>	<b>397.00</b>	<b>332.00</b>	<b>347.41</b>	<b>391.01</b>	<b>395.51</b>	<b>414.77</b>	<b>664.96</b>	<b>716.50</b>	<b>684.43</b>	<b>634.00</b>	<b>0.00</b>	<b>0.00</b>
<b>III</b>	<b>North Eastern Areas - Capital Outlay (Investment)</b>												
1	National Waterway-2	89.10	84.80	78.04	99.80	99.80	100.18	197.00	240.00	270.16	320.00		
2	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)												
	<b>Sub total - III (NER) @</b>	<b>89.10</b>	<b>84.80</b>	<b>78.04</b>	<b>99.80</b>	<b>99.80</b>	<b>100.18</b>	<b>197.00</b>	<b>240.00</b>	<b>270.16</b>	<b>320.00</b>	<b>0.00</b>	<b>0.00</b>
	<b>Grand Total</b>	<b>486.10</b>	<b>416.80</b>	<b>425.45</b>	<b>490.81</b>	<b>495.31</b>	<b>514.95</b>	<b>861.96</b>	<b>956.50</b>	<b>954.59</b>	<b>954.00</b>	<b>0.00</b>	<b>0.00</b>

Source : Inland Waterways Authority of India (IWAI)

Note: Expenditure shown on Accual basis

\*\*\* Budget and expenditure on account of (II.6 ) for NW-16 (Barak) and (II.7) are incuded in (II.4) NW-2.

@ Budget provided to IWAI undre Capital Head - Investment during 2021-22 (RE) and till 2024-25 (BE)

**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
<b>STATES</b>										
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
<b>Total( States)</b>		253	33	7	2	42	210	71	0	281
<b>UNION TERRITORIES</b>										
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
<b>Total ( UTs)</b>		3	0	0	0	0	3	0	0	3
<b>Total States/UTs</b>		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.

## **SECTION – 7**

# **TIME SERIES STATISTICS**

**Table 7.1****Trend in Total Cargo Movement on National Waterways**

Year	Total Cargo (in Million Tons)
1	2
1990-91	0.36
1991-92	0.27
1992-93	0.29
1993-94	0.70
1994-95	1.17
1995-96	0.00
1996-97	16.80
1997-98	20.05
1998-99	17.26
1999-2000	16.72
2000-01	22.23
2001-02	19.77
2002-03	26.90
2003-04	32.48
2004-05	45.58
2005-06	50.41
2006-07	55.82
2007-08	55.88
2008-09	58.06
2009-10	67.68
2010-11	74.30
2011-12	70.29
2012-13	23.68
2013-14	18.07
2014-15	29.16
2015-16	41.53
2016-17	55.47
2017-18	55.03
2018-19	72.30
2019-20	73.64
2020-21	83.61
2021-22	108.79
2022-23	126.15
2023-24	133.03

Source: Inland Waterways Authority of India (IWAI)



Table 7.2

## Trend in National Waterways-wise Cargo Movement

(in Million Tons)

National Waterways (NW)	State/ UT	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7	8	9	10	11	12	13
NW-1 (Ganga-Bhagirathi-Hooghly River System (Haldia-Allahabad))	U.P., Bihar, Jharkhand, W. Bengal	3.35	5.05	6.48	4.89	5.48	6.79	9.11	9.21	10.93	13.17	12.82
NW-2 (Brahmaputra River (Dhubri-Sadiya))	Assam	2.48	0.51	0.60	0.61	0.56	0.49	0.39	0.31	0.43	0.63	0.59
NW-3 (West Coast Canal)	Kerala	1.07	0.96	1.06	1.03	0.42	0.42	0.55	0.73	1.70	3.23	3.29
NW-4 (Krishna Godavari River Systems)	A.P.						0.45	0.08	6.83	11.23	8.42	4.30
NW-5 (East Coast Canal And Matai River/Brahmani-Kharsua-Dhamra Rivers/Mahanadi Delta Rivers)	Odisha							0.00		0.02	0.40	0.64
NW-8 (Alappuzha-Changanassery Canal)	Kerala										0.03	0.04
NW-9 (Alappuzha-Kottayam Athirampuzha Canal)	Kerala										0.02	0.02
NW-14 (Baitarni River)	Odisha										0.00	0.00
NW-16 (Barak River)	Assam							0.00	0.00	0.01	0.01	0.00
NW-23 (Budha Balanga)	Odisha										0.03	0.02
NW-31 (Dhansiri/Chathe)	Assam											0.01
NW-44 (Ichamati River)	West Bengal							0.90	0.28	0.82	0.46	0.48
NW-64 (Mahanadi River)	Odisha							0.00	0.00	0.02	0.45	0.67
NW-86 (Rupnarayan River)	West Bengal							0.00	0.00	0.00	0.09	0.10
NW-94 (Sone River)	Bihar							0.80	0.00	0.00	0.00	1.16
NW-97 (Sunderbans Waterway)	West Bengal						3.22	3.46	3.86	6.10	5.47	5.19
<b>Sub Total (National Waterways 1,2,3,4,5,8,9,14,16,23,31,44,64,86,94,&amp; 97)</b>		<b>6.89</b>	<b>6.52</b>	<b>8.14</b>	<b>6.53</b>	<b>6.46</b>	<b>11.38</b>	<b>15.30</b>	<b>21.22</b>	<b>31.24</b>	<b>32.41</b>	<b>29.34</b>

Table 7.2

## Trend in National Waterways-wise Cargo Movement

(in Million Tons)

National Waterways (NW)	State/ UT	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7	8	9	10	11	12	13
<b>Maharashtra Waterways</b>												
NW-10 (Amba River)	Maharashtra						22.24	22.01	17.69	20.23	28.54	30.17
NW-83 (Rajpuri Creek)	Maharashtra						0.85	0.67	0.21	0.23	0.24	0.45
NW-85 (Revadanda Creek-Kundalika River System)	Maharashtra						1.72	1.59	1.08	0.70	0.50	0.99
NW-91 (Shastri River - Jaigad Creek System)	Maharashtra						3.53	0.12	9.24	22.45	33.87	37.05
<b>Total Maharashtra Waterways</b>		10.18	22.54	28.85	33.29	25.96	28.34	24.39	28.21	43.61	63.15	68.66
<b>Goa Waterways</b>												
NW-68 (Mandovi River)	Goa						1.65	1.58	4.00	2.62	2.54	2.42
NW-111 (Zuari River)	Goa						2.10	1.36	4.47	1.96	0.39	1.10
<b>Total Goa Waterways</b>		1.00	0.10	4.54	15.65	11.09	3.76	2.93	8.46	4.58	2.93	3.52
<b>Gujarat Waterways</b>												
NW-73 (Narmada River)	Gujarat						0.04	0.10	0.08	0.05	0.04	0.06
NW-100 (Tapi River)	Gujarat						28.78	30.92	25.63	29.32	27.62	31.46
<b>Total Gujarat Waterways</b>						11.52	28.82	31.02	25.71	29.37	27.66	31.51
<b>Grand Total</b>		<b>18.07</b>	<b>29.16</b>	<b>41.53</b>	<b>55.47</b>	<b>55.03</b>	<b>72.30</b>	<b>73.64</b>	<b>83.61</b>	<b>108.79</b>	<b>126.15</b>	<b>133.03</b>

Source: Inland Waterways Authority of India (IWA)

# **ANNEXURES**

**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	NW No.	Length(km)	Details of Waterways	STATES
1	NW 1	1620.000	Ganga-Bhagirathi-Hooghly River System(Haldia - Allahabad)	UttarPradesh,Bihar,Jharkhand&WestBengal
2	NW 2	891.000	Brahmaputra River (Dhubri - Sadiya)	Assam
3	NW 3	205.000	WestCoastCanal(Kottapuram-Kollam),ChampakaraandUdyogmandal Canals	Kerala
		169.794	WestCoastCanal(Kottapuram Kozhikode)	
4	NW 4	50.000	KakinadaCanal(KakinadatoRajahmundry)	AndhraPradesh,Telangana,Karnataka,TamilNadu,Pondichery,ChhattisgarhandMaharashtra
		171.000	Godavaririver(BhadrachalamtoRajahmundry)	
		139.000	EluruCanal(Rajahmundry toVijayawada)	
		157.000	Krishnariver(WazirabadtoVijayawada)	
		113.000	CommamurCanal(VijayawadatoPeddaganjam)	
		316.000	NorthBuckinghamCanal(Peddaganjamto CentralStationofChennai)	
		110.000	SouthBuckinghamcanal(CentralStationofChennaitoMarakanam)	
		22.000	MarakanamtoPuducherrythroughKaluvellytank	
		1201.600	RiverGodavari (Bhadrachalam - Nashik)	
		636.200	RiverKrishna (Wazirabad - Galagali)	
5	NW 5	256.000	EastCoastCanal	OdishaandWestBengal
			Matairiver	
		265.000	Brahmani-Kharsua-Dhamrarivers	
		67.000	Mahanadideltarivers(ConsistingofHansuariver,Nunanala,Gobrinala,KharnasiriverandMahanadiriver)	

6	NW 6	68.484	AAIRIVER	Assam
7	NW 7	89.573	AJOY(AJAY)RIVER	WestBengal
8	NW 8	29.300	ALAPPUZHA- CHANGANASSERYCANAL	Kerala
9	NW 9	40.200	ALAPPUZHA-KOTTAYAM – ATHIRAMPUZHACANAL	Kerala Alternateroute:11.5km
10	NW 10	44.971	AMBARIVER	Maharashtra
11	NW 11	98.900	ARUNAWATI - ARANRIVERSYSTEM	Maharashtra
12	NW 12	5.500	ASIRIVER	UttarPradesh
13	NW 13	11.300	AVMCANAL	Kerala(2.8km)&Tamil Nadu(8.5km)
14	NW 14	48.477	BAITARNIRIVER	Odisha
15	NW 15	135.165	BAKRESWAR MAYURAKSHIRIVERSYSTEM	- WestBengal
16	NW 16	121.000	BARAKRIVER	Assam
17	NW 17	189.000	BEASRIVER	Himachal Pradesh(40.36km)& Punjab (153.5km)(4.86kmc ommon)
18	NW 18	68.900	BEKIRIVER	Assam
19	NW 19	67.050	BETWARIVER	UttarPradesh
20	NW 20	94.650	BHAVANIRIVER	TamilNadu
21	NW 21	138.900	BHEEMARIVER	Karnataka(138.9km) &Telangana(8.66km)( 8.66kmcommon)
22	NW 22	155.564	BIRUPA - BADIGENGUTI - BRAHMANIRIVERSYSTEM	Odisha
23	NW 23	55.896	BUDHA BALANGA	Odisha
24	NW 24	60.860	CHAMBALRIVER	UttarPradesh
25	NW 25	33.001	CHAPORARIVER	Goa
26	NW 26	51.072	CHENABRIVER	Jammu &Kashmir
27	NW 27	17.000	CUMBERJUARIVER	Goa
28	NW 28	45.228	DABHOLCREEK- VASHISHTIRIVERSYSTEM	Maharashtra
29	NW 29	132.410	DAMODARRIVER	WestBengal
30	NW 30	109.136	DEHINGRIVER	Assam
31	NW 31	113.752	DHANSIRI / CHATHE	Assam

32	NW 32	63.205	DIKHURIVER	Assam
33	NW 33	61.368	DOYANSRIVER	Assam
34	NW 34	136.957	DVCCANAL	WestBengal
35	NW 35	107.809	DWAREKESWARRIVER	WestBengal
36	NW 36	119.165	DWARKARIVER	WestBengal
37	NW 37	295.700	GANDAKRIVER	Bihar(255.8km)& UttarPradesh(33.68km) and6.22kminNEPAL
38	NW 38	62.000	GANGADHARRIVER	Assam(62km)& West Bengal (17.1km)(17.1kmcommon)
39	NW 39	49.143	GANOLRIVER	Assam(31.44km)&Meghalaya (17.56)
40	NW 40	353.600	GHAGHRARIVER	Bihar(90.97km)& UttarPradesh(344.83km)(82.2kmcommon)
41	NW 41	111.760	GHATAPRABHARIVER	Karnataka
42	NW 42	514.310	GOMTIRIVER	UttarPradesh
43	NW 43	10.041	GURUPURRIVER	Karnataka
44	NW 44	63.381	ICHAMATIRIVER	WestBengal
45	NW 45	650.100	INDIRAGANDHICANAL	Punjab (149.48km),Haryana(19.83km)&Rajashtan(480.69km)
46	NW 46	34.670	INDUSRIVER	Jammu &Kashmir
47	NW 47	130.590	JALANGIRIVER	WestBengal
48	NW 48	615.445	JAWAI-LUNI-RANN OF KUTCHRIVERSYSTEM	Gujarat(410.043km)& Rajasthan(205.402km)
49	NW 49	110.270	JHELUMRIVER	Jammu &Kashmir
50	NW 50	42.576	JINJIRAMRIVER	Assam(42.576km)&Meghalaya(28.246km)(28.246kmcommon)
51	NW 51	23.171	KABINIRIVER	Karnataka
52	NW 52	53.415	KALIRIVER	Karnataka
53	NW 53	144.640	KALYAN-THANE-MUMBAIWATERWAY,VASAI CREK AND ULHAS RIVERSYSTEM	Maharashtra
54	NW 54	86.000	KARAMNASARIVER	Bihar(86km)& UttarPradesh(86km)(86kmcommon)

55	NW 55	310.847	KAVERI - KOLLIDAMRIVERSYSTEM	TamilNadu
56	NW 56	22.104	KHERKAIRIVER	Jharkhand
57	NW 57	49.900	KOPILIRIVER	Assam
58	NW 58	233.040	KOSIRIVER	Bihar
59	NW 59	18.800	KOTTAYAM-VAIKOMCANAL	Kerala
60	NW 60	80.446	KUMARIRIVER	WestBengal
61	NW 61	27.870	KYNSHIRIVER	Meghalaya
62	NW 62	86.000	LOHITRIVER	Assam(17.89km)&Arunachal Pradesh (68.11km)
63	NW 63	336.350	LUNIRIVER	Rajasthan
64	NW 64	426.320	MAHANADIRIVER	Odisha
65	NW 65	80.391	MAHANANDARIVER	WestBengal
66	NW 66	246.989	MAHIRIVER	Gujarat
67	NW 67	93.500	MALAPRABHARIVER	Karnataka
68	NW 68	41.000	MANDOVIRIVER	Goa
69	NW 69	4.750	MANIMUTHARURIVER	TamilNadu
70	NW 70	245.000	MANJIRARIVER	Maharashtra(35.5km)&Telangana(245km)(35.5kmcommon)
71	NW 71	26.638	MAPUSA / MOIDERIVER	Goa
72	NW 72	58.700	NAGRIVER	Maharashtra
73	NW 73	226.343	NARMADARIVER	Maharashtra(38.44km)& Gujarat (226km)(38.44kmcommon)
74	NW 74	79.205	NETRAVATHIRIVER	Karnataka
75	NW 75	141.704	PALARRIVER	TamilNadu
76	NW 76	23.000	PANCHAGANGAVALI(PANCHANGOLI)RIVER	Karnataka
77	NW 77	19.508	PAZHYARRIVER	TamilNadu
78	NW 78	261.510	PENGANAGA - WARDHARIVERSYSTEM	Maharashtra(261.51 km)&Telangana(116.1km)(116.1kmcommon)
79	NW 79	28.280	PENNARRIVER	AndhraPradesh
80	NW 80	126.239	PONNIYARRIVER	TamilNadu
81	NW 81	34.610	PUNPUN RIVER	Bihar
82	NW 82	58.234	PUTHIMARIRIVER	Assam

83	NW 83	30.645	RAJPURICREEK	Maharashtra
84	NW 84	44.276	RAVIRIVER	Jammu&Kashmir(24km),Himachal Pradesh(20.267km) & Punjab(12km)(12kmcommon inJ&K-Punand12kminJ&K-HP)
85	NW 85	30.736	REVADANDACREEK - KUNDALIKARIVERSYSTEM	Maharashtra
86	NW 86	72.039	RUPNARAYANRIVER	WestBengal
87	NW 87	210.042	SABARMATIRIVER	Gujarat
88	NW 88	14.059	SALRIVER	Goa
89	NW 89	45.470	SAVITRIRIVER(BANKOTCREEK)	Maharashtra
90	NW 90	28.674	SHARAVATIRIVER	Karnataka
91	NW 91	52.020	SHASTRIRIVER - JAIGADCREEKSYSTEM	Maharashtra
92	NW 92	25.619	SILABATIRIVER	WestBengal
93	NW 93	62.600	SIMSANGRIVER	Meghalaya
94	NW 94	141.000	SONE RIVER	Bihar
95	NW 95	106.452	SUBANSIRIRIVER	Assam
96	NW 96	310.932	SUBARNREKHARIVER	Jharkhand(150.48km), West Bengal (95.14km)&Odisha(93.52km)(4.95kmcommonin Jhar-WB, 13.06kmin WB-Odiand10.13kminJhar-Odi)
97	NW 97	172.000	SUNDERBANSWATERWAY	WestBengal
		55.823	BIDYARIVER	WestBengal
		15.207	CHHOTAKALAGACHI(CHHOTOKALERGACHI)RIVER	WestBengal
		6.711	GOMARRIVER	WestBengal
		15.827	HARIBHANGARIVER	WestBengal
		37.202	HOGLA(HOGAL)-PATHANKHALIRIVER	WestBengal
		8.513	KALINDI(KALANDI)RIVER	WestBengal
		22.465	KATAKHALIRIVER	WestBengal
		98.731	MATLARIVER	WestBengal
		28.418	MURI GANGA(BARATALA)RIVER	WestBengal
		53.381	RAIMANGALRIVER	WestBengal



		14.392	SAHIBKHALI(SAHEBKHALI)RIVER	WestBengal
		37.163	SAPTAMUKHI RIVER	WestBengal
		63.865	THAKURRANRIVER	WestBengal
98	NW 98	377.000	SUTLEJRIVER	Himachal Pradesh(129.42km)&Punjab (247.58km)
99	NW 99	62.410	TAMARAPARANIRIVER	TamilNadu
100	NW 100	436.244	TAPIRIVER	Maharashtra(203.94km) & Gujarat (232.06km)
101	NW 101	42.000	TIZU - ZUNGKIRIVERS	Nagaland
102	NW 102	87.136	TLWANG(DHALESWARIRIVER)	Assam(23.68km)& Mizoram(65.506km) (2.05kmcommon)
103	NW 103	73.250	TONSRIVER	UttarPradesh
104	NW 104	232.400	TUNGABHADRARIVER	Karnataka(134.9km), Telangana(97.5km)& AndhraPradesh(158.4 km)(60.9kmcommon inAP- Karn.and97.5kminAP -Telg)
105	NW 105	15.211	UDAYAVARARIVER	Karnataka
106	NW 106	20.050	UMNGOT(DAWKI)RIVER	Meghalaya
107	NW 107	45.600	VAIGAIRIVER	TamilNadu
108	NW 108	52.830	VARUNARIVER	UttarPradesh
109	NW 109	165.780	WAINGANGA - PRANAHITARIVERSYSTEM	Maharashtra(165.78km) & Telangana(114km)(114kmcommon)
110	NW 110	1081.000	YAMUNARIVER	Delhi (33.6km),Haryana(100.63km)&UttarPradesh(1016.092km)(5.27kmcommon inDel-UPand65.36kminHar-UP)
111	NW 111	50.000	ZUARIRIVER	Goa
		<b>20186.650</b>		

**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.