

STATISTICS OF INLAND WATER TRANSPORT 2013-14



**Government of India
Ministry of Road Transport & Highways
Transport Research Wing
New Delhi**

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P R E F A C E

Transport Research Wing (TRW) in the Ministry of Road Transport and Highways is the nodal agency for providing information/data on various facets of Shipping and Inland Water Transport. The present issue "Statistics of Inland Water Transport 2013-14" is the 21st issue in the series.

The present volume gives an overview of the current status of Inland Water Transport (IWT). Besides it consists of 8 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 and public sector companies, plan outlays/expenditure for IWT sector, accidents related to inland waterways and Inland Waterways in select countries.

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

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

(Rajive Kumar)

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Inland Water Transport: An Overview

INTRODUCTION

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

POLICY INITIATIVES AND MILESTONES

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

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

(a) Fairway or navigational channel with desired width and depth

(b) Terminals for berthing of vessels, loading/unloading of cargo and for providing interface with road and rail; and

(c) Navigational aid for safe navigation.

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

INLAND WATERWAYS AUTHORITY OF INDIA

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

- (i) Conducting surveys and investigations and techno-economic feasibility for developing inland water transport mode;
- (ii) Development and regulation of National Waterways for shipping and navigation by providing conservancy measures, river training works, setting up infrastructural facilities etc.;
- (iii) Other connected/subsidiary functions include regulation of traffic, coordination with other modes of transport for movement on the National Waterways maintenance of Pilot age etc;
- (iv) To assist and advise central and State Government on matters relating to Inland Water Transport.

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

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

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

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

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

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

NAVIGABLE WATERWAYS & INFRASTRUCTURE

6. Length of waterways along with its navigable length is an indicator of inland water potential of a state. Table 1 gives Total and Navigable length of Waterways reported across States/UTs. It is observed that the maximum length of waterways is in the State of Assam with 5290 kms followed by West Bengal with 4741 kms. However, the ratio of the navigable length to the total length of the river/canal better reflects the potential for IWT.

As per the available data presented in Table 1, it is observed that the ratio of navigable length to the total length is about 97% in the State of West Bengal; by contrast, in case of Gujarat the ratio of navigable length to total length is a mere 15.62%. Other States with good inland water transport prospects are Goa, Maharashtra and Bihar where waterways navigable length is 90.84, 73.22 and 62.4% respectively of the total length of rivers/lands/lakes reported by these states. Fourteen states have reported river length as well as navigable length for 137 rivers. These 137 rivers have total length of 28511 Km of which 45.83% is navigable length.

| State | Total Length of the Rivers/ Canals/ Lakes in State (Km.) | Navigable Length (Km.) | Percentage of Navigable Length to Total Length |
|-----------------|--|------------------------|--|
| Andhra Pradesh | 3579 | 804 | 22.46 |
| Assam | 5290 | 1713 | 32.38 |
| Bihar | 2229 | 1391 | 62.40 |
| Goa | 273 | 248 | 90.84 |
| Gujarat | 653 | 102 | 15.62 |
| Karnataka | 2862 | 1215 | 42.45 |
| Kerala | 2779 | 845.2 | 30.41 |
| Maharashtra | 631 | 462 | 73.22 |
| Orissa | 1378 | 508 | 36.87 |
| Nagaland** | 937 | 375 | 40.02 |
| Mizoram | 787 | 372 | 47.27 |
| Tamil Nadu | 27 | 12 | 44.44 |
| Uttar Pradesh** | 2345 | 425 @ | 18.12 |
| West Bengal | 4741 | 4593 | 96.88 |

... Not Available ** Pertains to 2007-08,
 @ Navigable length Pertains to NW I for Allahabad-Buxar stretch in Uttar Pradesh.
 * The information for each State has been compiled for only those rivers for which both Total length & Navigable length have been reported by the State.

CARGO MOVEMENT ON MAJOR WATERWAYS

7. Table 2 provides a snap view of cargo moved on the three national waterways, waterways of Goa and Maharashtra which carry most of the cargo traffic on India's Inland Waterways. The total cargo movement on India's waterways comprising the three national waterways and waterways in the State of Goa and Maharashtra was 322.63 lakhs tonnes in 2013-14 as against 412.52 lakhs tonnes in 2012-13, reflecting a decrease of 21.79%. The decline in the total cargo movement in 2013-14 over 2012-13 is mainly attributed to the decline in cargo movement on Goa Waterways, due to ban on iron ore mining/export by the Supreme Court of India w.e.f. 5th October, 2012. In terms of tonnage, Goa and Maharashtra accounted for 1.8% and 76.8% respectively of the total cargo volume in 2013-14 with balance 21.4% being accounted by the 3 National Waterways. In terms of tonne km (movement of one tonne of cargo over a distance of one km) also, there was a decrease of 21.04% in 2013-14 over

2012-13. Maharashtra waterways accounted for more than 75% of the total cargo movement on inland waterways across India. In case of Goa and Maharashtra, high volume of cargo movement was carried over relatively short average distances of about 45.08 Kms and 18.94 Kms respectively leading to their intensive use. However, in the three National Waterways the volume of cargo traffic was relatively much small. In case of National Waterway II (The Brahmaputra) and National Waterway III (Champakara canal, Udyogmandal canal and West Coast canal) the distance traversed by cargo was on an average around 24 Kms and 11 Kms respectively in 2013-14. In case of National Waterway I (Ganga- Bhagirathi-Hooghly) the average distance over which cargo moved was relatively much longer at around 553 Kms.

| Table 2: Cargo Movement on Waterways | | | | | |
|--|----------------------------------|-----------------------------------|----------------------|-----------------------------|---------------------|
| Sl. No. | Details of Waterway | Cargo Moved (lakh tonnes) | | Tonne Kms (in lakh) | |
| | | 2012-13 | 2013-14 | 2012-13 | 2013-14 |
| 1 | National Waterway No. I | 27.16(6.6) | 33.49(10.4) | 15119(49.4) | 18512(76.5) |
| 2 | National Waterway No. II | 24.27(5.9) | 24.75(7.7) | 580(1.9) | 594(2.5) |
| 3 | National Waterway No. III | 12.36(3.0) | 10.66(3.3) | 139(0.5) | 116(0.5) |
| | Sub Total NWs | 63.79(15.5) | 68.90(21.4) | 15838(51.7) | 19222(79.5) |
| 4 | Goa Waterways | 106.77(25.9) | 5.99(1.8) | 10240(33.4) | 270(1.1) |
| 5 | Maharashtra Waterways | 241.96(58.7) | 247.74(76.8) | 4551(14.9) | 4691(19.4) |
| | Grand Total | 412.52(100.0) | 322.63(100.0) | 30629(100.0) | 24183(100.0) |
| <p>Source : (i) Inland Waterways Authority of India for National Waterways (ii) Data for Goa Waterways include the data received from Ports department, Govt of Goa and the data received from the Mormugao Port Trust (MPT). (iii) Maharashtra Maritime Board for Maharashtra Waterways.</p> <p>Note</p> <p>1. Cargo handled in Kolkata-Bangladesh-Kolkata route is included in the traffic on National Waterway No. I. The route is a link between NW-I & NW-II through Bangladesh</p> <p>2. Figure within brackets indicates percentage to the total.</p> | | | | | |

NATIONAL WATERWAYS (NW)

Box 2: Criteria for declaration of National Waterway

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

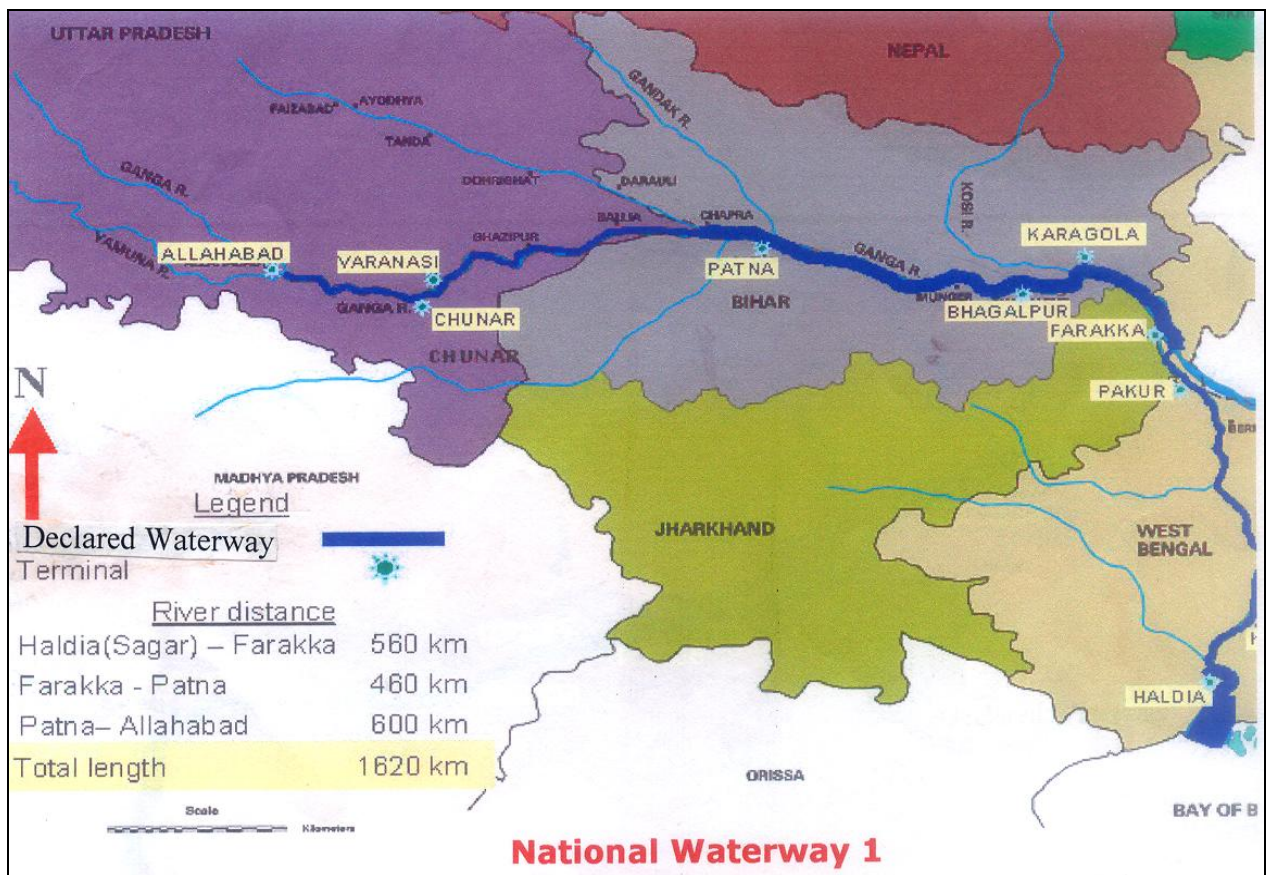
8. The Three waterways that have been declared as National Waterways are:

- (a) Allahabad-Haldia stretch (1620 kms) of Ganga-Bhagirathi-Hooghly river system was declared National Waterway- 1 in October, 1986.
- (b) Sadiya-Dhubri stretch (891 kms) of the Brahmaputra river was declared National Waterways-II in September, 1988.
- (c) Kottapuram-Kollam stretch (168 kms) of the West Coast Canal along with Champakara canal (14 kms) and Udyogmandal canal (23 kms) was declared National Waterways-III in February, 1993.

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

9. The National Waterway No. 1 has been divided into three stretches for operational convenience and is being developed for shipping and navigation. Over the years, schemes for river conservancy works have been undertaken along with the issues connected with river depth and navigability, repair of vessels, terminal maintenance and other related works. Least Available Depth (LAD) of 2m round the year is being maintained between Haldia and Patna (1020 km) and; LAD of 1.5m between Patna-Varanasi (363 km) for most part of the year. However, LAD of 1.5 metre is maintained only for 4-5 monsoon months in a year between Varanasi and Allahabad stretch (237 Km).

The volume of freight movement on National Waterways-I was 33.49 lakh tonnes in 2013-14 as against 27.16 lakh tonnes in 2012-13 reflecting an increase of 23.31 %. Although the volume of cargo movement by CIWTC, VIVADA IWL and IWAI vessels have decreased in 2013-14 over 2012-13, the volume of cargo moved by other private operators increased considerably during 2013-14 as compared to 2012-13. CIWTC and VIVADA IWL moved 0.08 lakh tonnes and 2.12 lakh tonnes of cargo respectively during 2013-14 as against 0.21 lakh tonnes and 2.47 lakh tonnes respectively during 2012-13. IWAI vessels moved 0.10 lakh tonnes cargo on NW-I in 2013-14 as against 0.16 lakh tonnes cargo on NW-I in 2012-13, whereas other private operators moved 31.19 lakh tonnes of cargo on NW-I in 2013-14 as against 24.32 lakh tonnes cargo on NW-I in 2012-13.



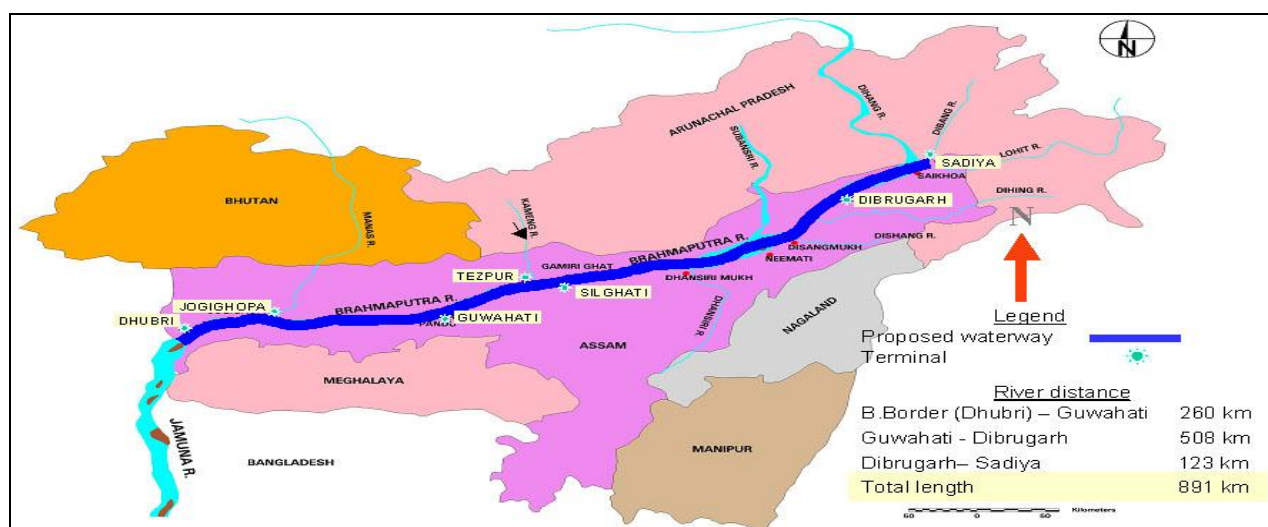
10. The composition of cargo movement on National Waterway I over the years is shown in Table 3 below. Building material accounted for 59.6% of total cargo movement along the NW-I during 2013-14.

| Name of the Commodity | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 |
|-----------------------|------------------------|------------------------|------------------------|----------------------|----------------------|
| Building Material | 1388365(75.6) | 1492395 (79.5) | 1529401 (46.2) | 1727685 (63.6) | 1997301 (59.6) |
| Fertilizers | - | 7500 (0.4) | - | 52000 (1.9) | 36800 (1.1) |
| Food items | 1434 (0.1) | 9110 (0.5) | 15000 (0.5) | 345179 (12.7) | 394935(11.8) |
| Miscellaneous | 145000 (7.9) | 41984 (2.2) | 22509 (0.7) | 13842 (0.5) | 11476 (0.3) |
| Mix | - | - | 1459428(44.1) | 21800 (0.8) | 8250 (0.2) |
| Ore/Minerals | 25283 (1.4) | 2648 (0.1) | 550 (neg.) | 229000 (8.4) | 112000 (3.3) |
| POL/POL products | 277030 (15.0) | 324111 (17.3) | 281954 (8.5) | 247341 (9.1) | 212063 (6.3) |
| Coal | - | - | 1205 (neg.) | 79590 (2.9) | 561456 (16.8) |
| Iron steel | - | - | - | - | 14857(0.4) |
| Total NW I | 1837112 (100.0) | 1877748 (100.0) | 3310047 (100.0) | 2716437 (100) | 3349138 (100) |

**Note: Figure within brackets indicates percentage to the total.
Neg. - negligible**

National Waterways No. II (The Brahmaputra)

11. Since its declaration as National Waterway II various developmental activities have been taken up on the Sadiya-Dhubri stretch of Brahmaputra. Some of the schemes undertaken to improve navigability include river conservancy works such as bandalling, channel marking and hydrographic surveys. Pilotage services have also been provided to the vessels plying on this waterway. River conservancy works for maintaining navigable depth are taken up on a year to year basis. LAD of 2 metres between Dhubri and Dibrugarh (768 km) is maintained for most part of the year. However, between Dibrugarh and Sadiya, LAD of 1.5 metres could be maintained only during monsoon months.



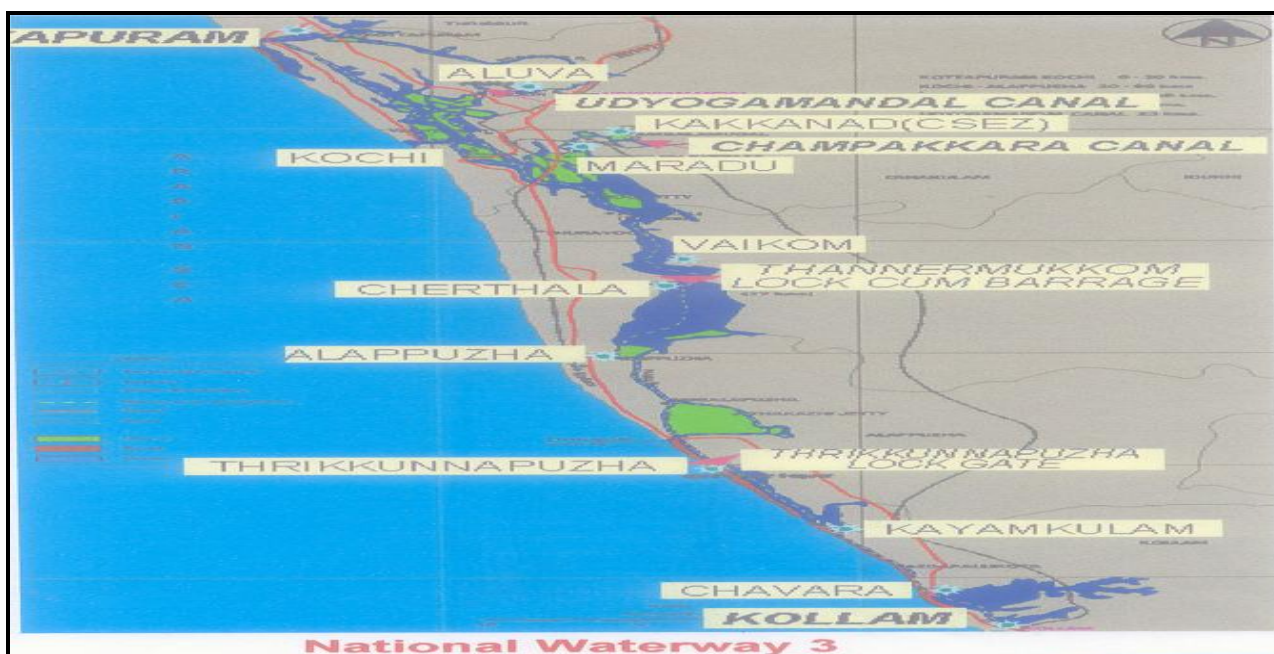
12. The total cargo traffic on NW II was 24.75 lakh tonnes during 2013-14 as against 24.27 lakh tonnes during 2012-13 reflected a very small increase. Commodity-wise composition of cargo movement indicates that there is no single item with significant share on this waterway during the year 2013-14. The cargo moved on this waterway is of a mixed nature.

| Commodity | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 |
|--------------------|-----------------------|------------------------|------------------------|------------------------|------------------------|
| Building Material | 745 (0.4) | - | - | - | - |
| Food items | 336 (0.2) | 600 (neg.) | - | - | - |
| Miscellaneous | 182260 (99.4) | 2163145 (100.0) | 2406448 (100.0) | 2426805 (100.0) | 2475349 (100.0) |
| Mix | - | - | - | - | - |
| Ore/Minerals | - | - | - | - | - |
| POL/POL Products | - | - | - | - | - |
| Total NW II | 183341 (100.0) | 2163745 (100.0) | 2406448 (100.0) | 2426805 (100.0) | 2475349 (100.0) |

**Note: Figure within bracket indicates percentage to the total.
Neg. – negligible**

The National Waterway No. III (West Coast Canal)

13. The National Waterway No. III consists of three main stretches viz. Champakara Canal, Udyogmandal canal and West Coast canal. It runs parallel to the coastline. Fairway maintenance works including maintenance, dredging, channel marking are taken up on a year to year basis. Capital dredging for widening and deepening of canal has been completed between Kochi and Thakazhi jetty and large parts of Kochi-Kottapuram stretch is under progress.



14. The total volume of cargo moved on National Waterway III has been fluctuating over the past few years. It has, however, gone down from 12.36 lakh tonnes in 2012-13 to 10.66 lakh tonnes in

2013-14 recording a decrease of 13.75%. The cargo composition of freight traffic shows that Fertilisers (24.7%), food items (1.7%), POL/POL products (2.3%) and chemicals (11.7%) were the major commodities moved through NW-III during 2013-14.

| Commodity | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 |
|---------------------|-----------------------|-----------------------|------------------------|------------------------|------------------------|
| Chemicals | - | 96804 (11.0) | 61005 (4.5) | 89074 (7.2) | 124782 (11.7) |
| Fertilisers | 248917 (37.3) | 328468 (37.1) | 308807 (23.0) | 306034 (24.8) | 262974 (24.7) |
| Food items | 199400 (29.9) | 144740 (16.3) | 131720 (9.8) | 141000 (11.4) | 18000 (1.7) |
| Mix | 34868 (5.2) | 94067 (10.6) | 687946 (51.2) | 538670 (43.6) | 606760 (56.9) |
| Ore/Minerals | 52452 (7.9) | 59546 (6.7) | 15063 (1.1) | 72163 (5.8) | 28542 (2.7) |
| POL/POL products | 131560 (19.7) | 162069 (18.3) | 139229 (10.4) | 89462 (7.2) | 24948 (2.3) |
| Total NW III | 667197 (100.0) | 885694 (100.0) | 1343770 (100.0) | 1236403 (100.0) | 1066006 (100.0) |

Note : Figure within brackets indicate percentage to the total

15. The total cargo moved through all the three National Waterways (NW) increased by 8.01% to 68.90 lakh tonnes during 2013-14 from 63.79 lakh tonnes during 2012-13. In 2013-14, share of cargo moved in volume terms across the three national waterways i.e NW I, (The Ganga- Bhagirathi-Hooghly) NW II (The Brahmaputra) and NW III (Champakara canal, Udyogmandal canal and west Cost canal) has been 48.6%, 35.9%, and 15.5% respectively of the total cargo moved in national waterways. In terms of tonne kilometers, the share of NW I, NW II and NW III is 96.3%, 3.1% and 0.6% of the total tonne kilometers moved. The high share of NW I in tonne kilometers reflect long average distance traversed by cargo of 553 kms compared with an average distance of about 24 kms for NW II and average distance of 11 kms for NW III in the year 2013-14. Table 6 gives cargo movement of National Waterways in Tonnage and Tonne Kilometers.

| Sl. No. | Details of Waterway | Cargo Moved (lakh Tonnes) | | Tonne Kms (in lakh) | |
|----------------|----------------------------------|-----------------------------------|---------------------|-----------------------------|---------------------|
| | | 2012-13 | 2013-14 | 2012-13 | 2013-14 |
| 1 | National Waterway No. I | 27.16(42.6) | 33.49(48.6) | 15119(95.5) | 18512(96.3) |
| 2 | National Waterway No. II | 24.27(38.0) | 24.75(35.9) | 580(3.7) | 594(3.1) |
| 3 | National Waterway No. III | 12.36(19.4) | 10.66(15.5) | 139(0.9) | 116(0.6) |
| | Total NWs | 63.79(100.0) | 68.90(100.0) | 15838(100.0) | 19222(100.0) |

Source: Inland Waterways Authority of India for National Waterways. Cargo handled in Kolkata-Bangladesh-Kolkata route is included in the traffic on National Waterway No.I. The route is a link between NW-I & NW-II through Bangladesh

Note : Figure within brackets indicate percentage to the total

16. The movement of Building material has shown significant increase and POL/POL Products has shown decrease on the National Waterways in 2013-2014. The details of the commodities moved on the National Waterways is presented in Table 7.

| Table 7: Composition of Cargo Moved on national waterways (In tonnes) | | | | | |
|---|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Commodity | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 |
| Building Material | 1389110 (51.6) | 1492395 (30.3) | 1529401 (21.7) | 1727685 (27.1) | 1997301 (29) |
| Chemicals | - | 96804 (2.0) | 61005 (0.9) | 89074 (1.4) | 124782 (1.8) |
| Fertilisers | 248917 (9.3) | 335968 (6.8) | 308807 (4.4) | 358034 (5.6) | 299774 (4.4) |
| Food items | 201170 (7.5) | 154450 (3.1) | 146720 (2.1) | 486179 (7.6) | 412935 (6.0) |
| Miscellaneous | 327260 (12.2) | 2205129 (44.7) | 2428957 (34.4) | 2440647 (38.3) | 2486825 (36.1) |
| Mix | 34868 (1.3) | 94067 (1.9) | 2147374 (30.4) | 560470 (8.8) | 615010 (8.9) |
| Ore/Minerals | 77735 (2.9) | 62194 (1.3) | 15613 (0.2) | 301163 (4.7) | 140542 (2.0) |
| POL/POL Products | 408590 (15.2) | 486180 (9.9) | 421183 (6.0) | 336803 (5.3) | 237011(3.4) |
| Coal | - | - | 1205 (0.0) | 79590 (1.2) | 561456(8.1) |
| Iron & Steel | - | - | - | - | 14857(0.2) |
| Total | 2687650 (100.0) | 4927187 (100.0) | 7060265 (100.0) | 6379645 (100.0) | 6890493 (100.0) |

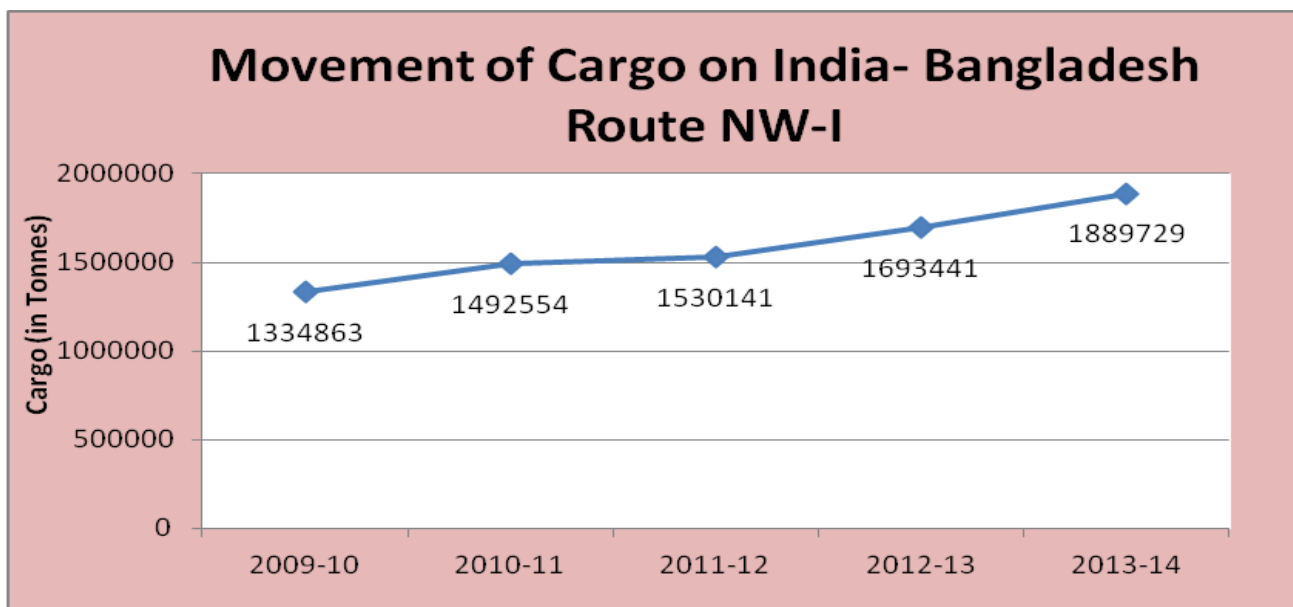
Note : Figure within brackets indicate percentage to the total

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

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

Cargo carried on Indo -Bangladesh Waterway Route

17. Movement of cargo along India Bangladesh route of National Waterways I have shown growth of 11.59% in year 2013-14 over that in 2012-13. The cargo moved over this route has increased to 1889729 tonnes in 2013-14 against 1693441 tonnes in 2012-13. The graph inserted below depicts trend in cargo movement on India-Bangladesh route National Waterway-I during the years 2009-10 to 2013-14.



18. The table 8 shows the cargo and the main commodities carried on India-Bangladesh route on National Waterway-I during the years 2009-10 to 2013-14.

| Route | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | Commodities |
|---------------------|----------------|----------------|----------------|----------------|----------------|---|
| India to Bangladesh | 1334863 | 1492554 | 1530141 | 1693441 | 1889729 | Flyash, Salt in bulk, Rice, Wheat POL, Coal, Slag Gypsum, HSD, Edible Oil, Iron Ingots, Cement, Bone crushed, Cement Clinker, Dolomite Powder |
| Total | 1334863 | 1492554 | 1530141 | 1693441 | 1889729 | |

***Data pertains to cargo carried on Indian registered vessels only.**

TWO NEW NATIONAL WATERWAYS

19. Two new water ways have been declared by the Government as National Waterways.
- (i) The Kakinada – Puducherry stretch of Canals and the Kaluvelly Tank; Bhadrachalam – Rajahmundry stretch of River Godavari and Wazirabad – Vijayawada stretch of River Krishna (NW-4, 1095 km); and
 - (ii) The Talcher –Dhamra stretch of river Brahmani, Geonkhali-Charbatia stretch of East Coast Canal, Charbatia-Dhamra stretch of Matai river and Mangalgadi- Paradip stretch of Mahanadi delta rivers (NW5,623 km Gazette notifications for both these

waterways were published on 25.11.2008. Detailed Project Reports (DPR) for these new NWs is being prepared.

NATIONAL WATERWAY 4 (KAKINADA-PUDUCHERRY CANALS WITH GODAVARI AND KRISHNA RIVERS)

20. The stretches of the waterway (1095 kms) which has been declared as National Waterways (NW) are as follows:

- (i) Godavari river from Bhadrachalam to Rajahmundry – 171km.
- (ii) Krishna River from Wazirabad to Vijayawada- 157 km.
- (iii) Kakinada canal from Rajahmundry-50 km.
- (iv) Eluru canal from Rajahmundry to Vijayawada-139 km.
- (v) Commamur canal from Vijayawada to Peddaganjam lock-113 km.
- (vi) North Buckingham canal from Peddaganmjam lock to Chennai-34 km.
- (vii) South Buckingham canal from Chennai to Mercanum-103; and
- (viii) Kaluvelli tank from Mercanum to Puducherry-22km.

21. The waterway is located in the States of Andhra Pradesh (888Km), Tamil Nadu (205 km) and Union Territory of Puducherry (2 Km). Out of 1095 km, 50 km stretch within Chennai city (from Ennore to Muthukadu) is not envisaged for development due to encroachment of canal. This waterway runs through rural and Urban centres like Chennai, Vijayawada, Rajahmundry, Kakinada, Eluru, Bhadrachalam &Wazirabad and hence provide a vital link between rural areas and Urban centres Besides bulk cargo namely coal, cement fertilizers etc. it would help movement of agriculture products from rural area to Urban centres and industrial goods from Urban centres to rural areas. Further it also connects sea ports of Kakinada, Krishnapatnam, Ennore and Chennai and will facilitate import/export of cargo from/to hinterland. The waterway is proposed to be developed with 32 m wide and 1.8m deep navigational channel for Godavari river, Krishna river and North and South Buckingham canal while for Kakinada, Eluru and comamur canals with 14 m wide and 1.6m deep navigational channel The Estimated Cost of development of National Waterways at 2008-09 prices is (Rs. 1372 crore).

22. The Government of Andhra Pradesh has suggested for making availability of water in rivers and Irrigation canals for 330 days in a year for navigation. After the construction of dams at Polavaram in Godavari and Pulichinthala in Krishna by the year 2014-15, the development of waterway in Andhra Pradesh has been planned in two Stages as given below:-

23. Under stage I, 583 km of water way will be completed by the year 2013-14. Stage II works will be taken up after completion of construction of dams at Polavaram across Godavari river and at

Pulichintala across Krishna river. Under Stage-II, 462km of waterway will be completed by the year 2016-17.

24. In addition to the above mentioned cargo transportation by the environment friendly mode of water transport, the development of this waterway will provide social benefits e.g. employment generation, reduction in pollution, providing port- hinterland connectivity, reduction in road maintenance and road accidents, increase in economic activities etc.

NATIONAL WATERWAYY-5 (EAST COAST CANAL ALONG WITH BRAHMANI RIVER AND MAHANADI DELTA).

25. The stretches of the water way which have been declared as National waterway (NW) are as follows.

| | |
|--|----------------|
| (i) East Coast Canal (Geonkhali-Charbatia) | 217 km. |
| (ii) Matai River (Charbatia- Dhamra) | 40 km. |
| (iii) River Brahmani (Talcher-Dhamra) | 265 km. |
| (iv) Mahanadi delta river (Mangalgadi-Paradip) | <u>101 km.</u> |
| Total | 623 km. |

26. The waterway is located in the States of West Bengal (91) km) and Orissa (523km). For Brahmani- Kharsua-Dhamra River, Matai river and Mahanadi delta portion (406 km), the waterway is proposed to be developed with 45 m wide and 2m deep navigational channel while for East Coast Canal portion (217 km), with 32 m wide and 1.5 deep navigational channels. Developmental works envisaged are as follows:

- (i) Widening of narrow canal
- (ii) Dredging, Excavation
- (iii) Bank protection
- (iv) Construction of barrages in Brahmani river at 5 placed
- (v) Repair of locks
- (vi) Modification of bridges & roads
- (vii) Navigational aids
- (viii) Setting up of IWT terminals (all terminals are in Orissa)

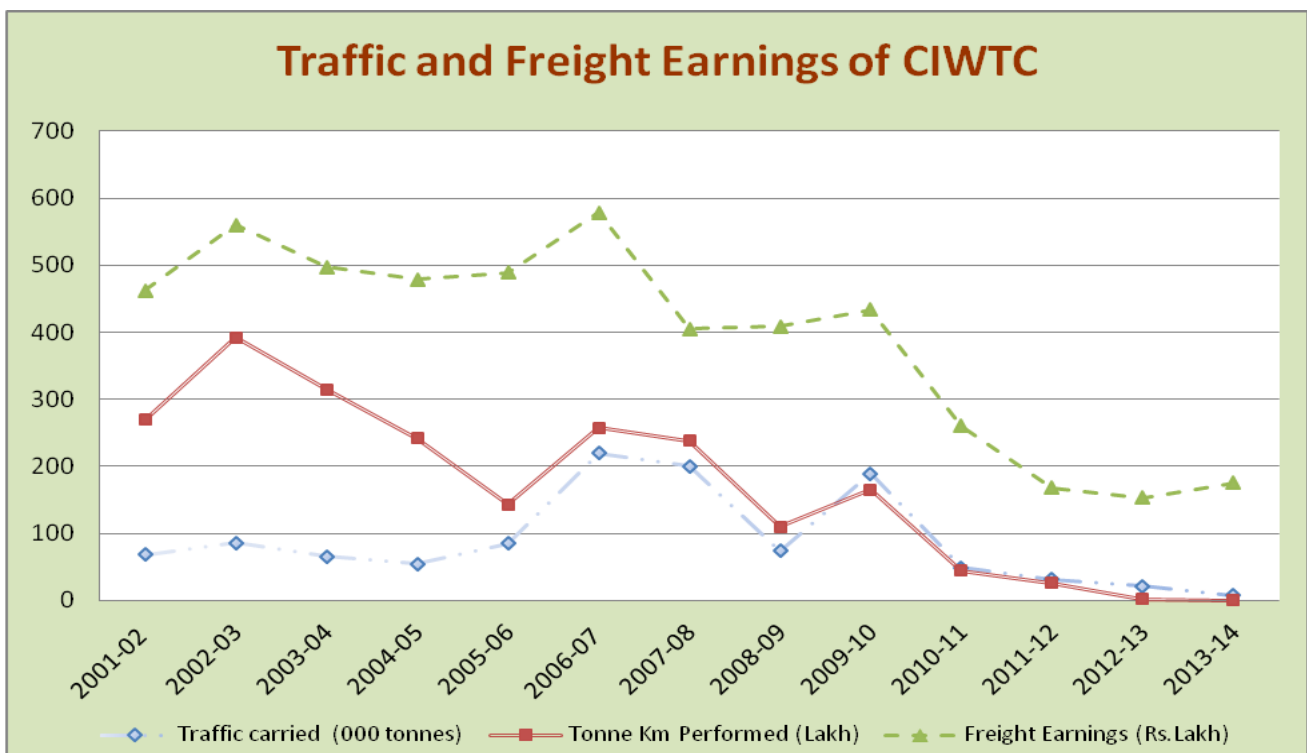
The estimated cost of development of National Waterway at 2002 price is Rs. 1526 crore.

CENTRAL INLAND WATER TRANSPORT CORPORATION (CIWTC LTD)

27. Central Inland Water Transport Corporation Ltd. (CIWTC) was established as a Government of India undertaking in the year 1967. (CIWTC took over the assets and liabilities of the River Steam Navigation Company Ltd. which was looking after Inland Water Transport services on river Barak). It is primarily responsible for transportation of cargo through inland waterways spread across Kolkata-Bangladesh-Assam and Allahabad-Haldia-Budge. It is operating on different routes on National Waterways-I and II including the protocol routes through Bangladesh and other parts of the country in Eastern and Northern India.

28. River services Division (RSD) is the division of CIWTC Ltd., which has its main terminal at Kolkata and branch offices at Haldia, Patna, Karimganj, Badarpur, Dhubro, Pandu and Guwahati. For running, repair and maintenance of its own crafts, the RSD has two workshops, one at Kolkata (West Bengal) and the other at Pandu (Assam).

29. The cargo carried by CIWTC decreased by 61.27% in the year 2013-14 to 8250 tonnes against 21300 tonnes in 2012-13, but the total freight earnings have gone up by 13.6% from Rs.153.72 lakh in 2012-13 to Rs.174.63 lakh in 2013-14. The non-commodity earnings of CIWTC showed a positive growth of 27.63% as it reached Rs. 172.83 lakh in 2013-14 from Rs. 135.42 lakh in 2012-13. Following graphs gives a picture of long term trend in traffic and earning of CITWC.



IWT ACTIVITIES – STATE GOVERNMENT

30. The number of vessels deployed and volume of cargo carried on Inland Waterways across the reporting States & UTs is given in Table 9.

| State/UT | Number of Vessels | | | | Volume of Cargo Carried (thousand tonnes) | | | |
|---------------------------------|-------------------|--------------|--------------|--------------|--|-----------------|-----------------|-----------------|
| | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2010-11 | 2011-12 | 2012-13 | 2013-14 |
| Andhra Pradesh | 111 | 111 | ... | ... | ... | ... | ... | ... |
| Assam | ... | 209 | 22 | 173 | ... | 37.72 | 71.79 | 338.53 |
| Bihar | 21 | 138 | 138 | 138 | ... | 2.40 | 2.40 | 2.40 |
| Goa | 188 | 172 | 313 | 159 | 14563.49 | 14469.90 | 3275.82 | 284.17 |
| Karnataka | 39 | 473 | 66 | 66 | 1033.80 | 3887.00 | 78.40 | 58.72 |
| Kerala | 13495 | 5513 | 13821 | 13689 | 5285.56 | 5756.12 | 5555.21 | 2831.87 |
| Maharashtra | 781 | 603 | 577 | 588 | 14870 | 19950 | 24196 | 24774 |
| Orissa | 281 | 279 | 342 | ... | ... | ... | ... | ... |
| West Bengal | 2561 | 2635 | 2623 | 2042 | 9987 | 9996 | 10347 | 11452 |
| TOTAL (reporting states) | 17477 | 10133 | 17902 | 16855 | 40739.85 | 54099.14 | 43526.62 | 39741.69 |

... Not Available

PERFORMANCE OF COMPANIES ENGAGED IN IWT

31. The data received from 26 IWT companies shows that amongst the private companies the maximum number of cargo vessels were held by the Sesa Goa Ltd., Goa followed by West Bengal Surface Transport Corporation and Jindal ITF Ltd. The Maximum cargo of 1003.36 thousand tonnes was carried by Sesa Goa Ltd, Goa.

32. Cargo moved by top 10 private companies along with the number of cargo vessels employed in 2013-14 is given below in Table 10.

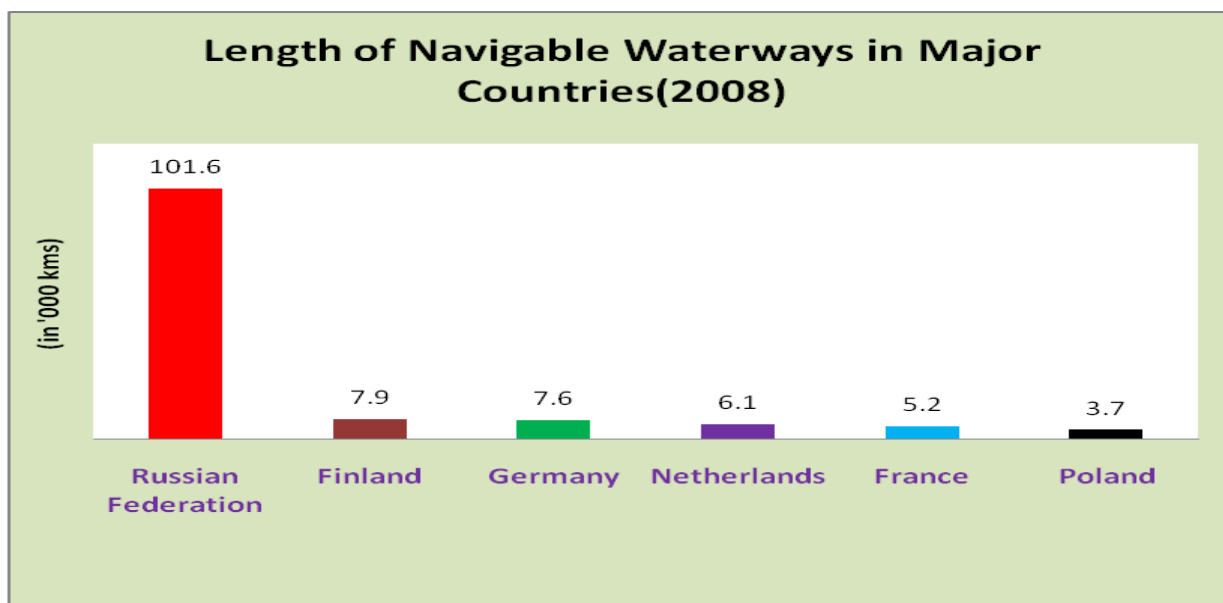
| Name of the Company | No. of Vessels | Cargo moved ('000 tonnes) |
|--|----------------|---------------------------|
| 1. Sesa Sterlite Ltd. Goa. | 32 | 1003.36 |
| 2. VIVADA Inland Waterways Ltd, Kolkata | 14 | 495.62 |
| 3. Sesa Resources Ltd Goa | 3 | 163.20 |
| 4. Eastern Navigation Pvt. Ltd, Kolkata | 11 | 56.34 |
| 5. Jindal ITF Ltd. | 18 | 40.21 |
| 6. Soham Shipping Private Ltd. | 4 | 25.27 |
| 7. West Bengal Surface Transport Corporation | 26 | 23.28 |
| 8. CIWTC, Kolkata | - | 8.25 |
| 9. Jain Navigation | 2 | 7.26 |
| 10. K.S. Singhi | 1 | 3.31 |

INLAND WATERWAYS TRANSPORT ACCIDENTS

33. The total number of accidents on inland waterways during the year 2013 was 523 out of which 114 were reported in Uttar Pradesh followed by Bihar with 100 accidents. The number of deaths during the year due to boat mishaps were highest in Uttar Pradesh at 152 followed by Bihar at 87. A striking feature observed in all the States (Table No. 7.1) is that the number of persons died due to boat mishaps is more than the number of persons injured on waterways unlike in the road accidents.

INLAND WATERWAYS IN SELECT COUNTRIES

34. The maximum length of Navigable Inland Waterways belongs to Russian Federation with 101,612 Kms followed by Finland with 7,983 Kms, Germany with 7,565 Kms., Netherlands with 6,102 Kms., France with 5,200 Kms and Poland with 3,660 Kms. in the year 2008. However, the maximum quantity of Goods carried was in Germany at 246 million tones, followed by Russian Federation at 150 million tones and Belgium at 130 million tones.



Source: Annual Bulletin of Transport Statistics for Europe & North America, 2011(UN Publication).

SECTION – 1

**NAVIGABLE WATERWAYS
AND INFRASTRUCTURE**

Table No. 1.1

Navigable Waterways in India

(In Kms.)

| Sl. No. | State/Rivers/Canals/Lakes | 2013-14 | |
|-----------|----------------------------|--|------------------|
| | | Total Length of the Rivers/Canals/Lakes in the State | Navigable Length |
| 1 | 2 | 3 | 4 |
| 1 | ANDHRA PRADESH | | |
| | (i) Godavari | 1530 | 171 |
| | (ii) Krishna | 1400 | 157 |
| | (iii) Others ** | 649 | 476 |
| | Total | 3579 | 804 |
| 2. | ASSAM | | |
| | (i) Brahmaputra | 2800 | 891 |
| | (ii) Borak | 900 | 152 |
| | (iii) Subansiri | 468 | 111 |
| | (iv) Dhansiri | 135 | 25 |
| | (v) Manash | 375 | 104 |
| | (vi) Aie | ... | 64 |
| | (vii) Beki | 85 | 55 |
| | (viii) Jiaboroli | 90 | 60 |
| | (ix) Puthimari | ... | 64 |
| | (x) Disang | 25 | 25 |
| | (xi) Kopili | 50 | 50 |
| | (xii) Dikhow | 92 | 40 |
| | (xiii) Katakhal/Dhaleswari | 150 | 120 |
| | (xiv) Sonai | ... | 48 |
| | (xv) Mahura | ... | 32 |
| | (xvi) Buridihing | 120 | 80 |
| | (xvii) Chiri | ... | 42 |
| | (xviii) Jiri | ... | 64 |
| | Total | 5290 | 2027 |
| 3. | BIHAR | | |
| | (i) Damodar | ... | ... |
| | (ii) Ganga | 510 | 510 |
| | (iii) Gandak | 300 | 300 |
| | (iv) Koshi | 233 | 160 |
| | (v) Ghaghra | 100 | 100 |
| | (vi) Sone | 226 | 31 |
| | (vii) Mahananda | 140 | ... |
| | (viii) Burhi Gandak | 400 | ... |
| | (ix) Punpun | 200 | ... |
| | (x) Phalgu Harihar | 300 | ... |
| | (xi) Kiul | 100 | ... |
| | (xii) Kari Koshi | 150 | ... |
| | (xiii) Chandan | 100 | ... |
| | (xiv) Karamnasha | 144 | ... |
| | (xv) Others | 860 | 290 |
| | Total | 3763 | 1391 |

Table No. 1.1

Navigable Waterways in India

(In Kms.)

| Sl. No. | State/Rivers/Canals/Lakes | 2013-14 | |
|---------|---------------------------|--|------------------|
| | | Total Length of the Rivers/Canals/Lakes in the State | Navigable Length |
| 1 | 2 | 3 | 4 |
| 4 | GOA | | |
| | (i) Mandovi | 78 | 66 |
| | (ii) Zuari | 68 | 68 |
| | (iii) Mapusa | 27 | 27 |
| | (iv) Chapora | 34 | 32 |
| | (v) Tiracol | 29 | 23 |
| | (vi) Sal | 20 | 15 |
| | (vii) Others | 17 | 17 |
| | Total | 273 | 248 |
| 5 | GUJARAT * | | |
| | (i) Narmada | 161 | 50 |
| | (ii) Tapti | 140 | 15 |
| | (iii) Ambica | 136 | 20 |
| | (iv) Auranga | 75 | 4 |
| | (v) Purna | 141 | 13 |
| | Total | 653 | 102 |
| 6 | KARNATAKA | | |
| | (i) Sharavathi | 80 | 27 |
| | (ii) Tungabhadra | 375 | 375 |
| | (iii) Malaprabha | 230 | 230 |
| | (iv) Ghataprabha | 160 | 160 |
| | (v) Krishna | 325 | 125 |
| | (vi) Cauvery | 270 | 34 |
| | (vii) Kabini | 117 | 30 |
| | (viii) Gurupur | 80 | 20 |
| | (ix) Gangolli | 48 | 20 |
| | (x) Bheema | 860 | 125 |
| | (xi) Udyavara | 37 | 14 |
| | (xii) Netravathi | 96 | 26 |
| | (xiii) Kali | 184 | 29 |
| | Total | 2862 | 1215 |
| 7 | KERALA | | |
| | (i) Manjeswar | 16 | 3.2 |
| | (ii) Uppala | 50 | ... |
| | (iii) Shiriya | 67 | 4.8 |
| | (iv) Mogral | 34 | ... |
| | (v) Chandragiri | 105 | 12.8 |
| | (vi) Chittari | 25 | ... |
| | (vii) Nileswar | 46 | 11.2 |
| | (viii) Karingode | 64 | 24 |
| | (ix) Kavvayi | 31 | 9.6 |
| | (x) Peruvamba | 51 | 16 |
| | (xi) Ramapuram | 19 | 6.4 |
| | (xii) Kuppam | 82 | 24 |
| | (xiii) Valapattanam | 110 | 44.8 |
| | (xiv) Anjara Kandy | 48 | 27.2 |
| | (xv) Telcicherry | 28 | 21.6 |
| | (xvi) Mahe | 54 | 24 |
| | (xvii) Kuthiadi | 74 | 9.6 |
| | (xviii) Korapuzha | 40 | 24.8 |

Table No. 1.1
(Contd...)

Navigable Waterways in India

(In Kms.)

| Sl. No. | State/Rivers/Canals/Lakes | 2013-14 | |
|-----------|---|--|------------------|
| | | Total Length of the Rivers/Canals/Lakes in the State | Navigable Length |
| 1 | 2 | 3 | 4 |
| (xix) | Kallai | 22 | 9.6 |
| (xx) | Chaliyar | 169 | 68.4 |
| (xxi) | Kadalundy | 130 | 43.2 |
| (xxii) | Tirur | 48 | 9.6 |
| (xxiii) | Bharathappujha | 209 | 40 |
| (xxiv) | Keecheri | 51 | ... |
| (xxv) | Puzhakkal | 29 | ... |
| (xxvi) | Karivannur | 48 | 24 |
| (xxvii) | Chalakkudy | 130 | 16 |
| (xxviii) | Periyar | 244 | 72 |
| (xxix) | Muvattei puzha | 121 | 25.6 |
| (xxx) | Meenachil | 78 | 41.6 |
| (xxxi) | Manimala | 90 | 54.4 |
| (xxxii) | Pamba | 176 | 73.6 |
| (xxxiii) | Achan coil | 128 | 32 |
| (xxxiv) | Pallickal | 42 | 2 |
| (xxxv) | Kallada | 121 | 40 |
| (xxxvi) | Ithikkara | 56 | 16 |
| (xxxvii) | Ayroor | 17 | 1 |
| (xxxviii) | Vamanapuram | 88 | 11.2 |
| (xxxix) | Mamom | 27 | 1 |
| (xL) | Karamana | 68 | ... |
| (xLi) | Neyyar | 56 | ... |
| | Total | 3092 | 845.2 |
| 8 | MAHARASHTRA | | |
| (i) | Dande River | 2 | 1 |
| (ii) | Pangere River | 2 | 1 |
| (iii) | Girye River | 3 | 1 |
| (iv) | Kajali River | 35 | 5 |
| (v) | Kalbadevi River | 10 | 2 |
| (vi) | Are River | 6 | 1 |
| (vii) | Jog River | 10 | 5 |
| (viii) | Kelshi River | 10 | 3 |
| (ix) | Savitri River(Bankot to Mahad) | 45 | 40 |
| (x) | Kal River | 6 | 4 |
| (xi) | Vaitarna River | 24 | 9 |
| (xii) | Ulhas River | 32.5 | 28 |
| (xiii) | Mahim River(Bay) | 1.5 | 1 |
| (xiv) | Amba River | 23 | 20 |
| (xv) | Patalganqa River/Creek (Aware to Kharpada) | 11 | 6.5 |
| (xvi) | Kundalika River | 16 | 16 |
| (xvii) | Mandad River(Rajpuri to Mandad) | 14 | 10 |
| (xviii) | Mhasla River(Turmad to Mhasla) | 9 | 5 |
| (xix) | Vashisti River(Dabhol to Govalkot) | 45 | 38 |
| (xx) | Jagbudi River(Karambavne to Khed) | 20 | 20 |
| (xxi) | Shastri River/Jaiqad Creek(Jaiqad to Kurudunda) | 45 | 40 |
| (xxii) | Rajapur River(Musakazi to Rajapur) | 30 | 30 |
| (xxiii) | Vagothan River/Vijaydurg Creek(Vijaydurg to Kharepatan) | 38 | 22 |
| (xxiv) | Gad River(Kalaval Creek) | 13 | 7 |
| (xxv) | Terekhol River/Creek(Terekhol to Banda) | 28 | 28 |
| (xxvi) | Karli River(Malva) | 23 | 13 |
| (xxvii) | Others | 129 | 105 |
| | Total | 631 | 462 |

Table No. 1.1

Navigable Waterways in India

(In Kms.)

| Sl. No. | State/Rivers/Canals/Lakes | 2013-14 | |
|-----------|---------------------------------|--|------------------|
| | | Total Length of the Rivers/Canals/Lakes in the State | Navigable Length |
| 1 | 2 | 3 | 4 |
| 9 | ORISSA | | |
| (i) | Mahanadi | 493 | 199 |
| (ii) | Brahmani | 541 | 277 |
| (iii) | Baitarani | 344 | 32 |
| (iv) | Subarnarekha | ... | 50 |
| (v) | Budha Balanga | ... | 35 |
| (vi) | Dhamara | ... | 20 |
| (vii) | Salandi | ... | 17 |
| (viii) | Panchputra | ... | 21 |
| (ix) | Parnei | ... | 45 |
| (x) | Hatel | ... | 30 |
| (xi) | Bansagadal | ... | 32 |
| (xii) | Hansua | ... | 37 |
| (xiii) | Tirkota | ... | 18 |
| (xiv) | Jamboo | ... | 6 |
| (xv) | Gobari | ... | 16 |
| (xvi) | Ramchandi | ... | 16 |
| (xvii) | Kharansi | ... | 14 |
| (xviii) | Batigharia | ... | 14 |
| (xix) | Birupa | ... | 110 |
| (xx) | Genguti | ... | 45 |
| (xxi) | Luna | ... | 37 |
| (xxii) | Devi | ... | 20 |
| (xxiii) | Pradhi | ... | 15 |
| (xxiv) | Kadha | ... | 30 |
| (xxv) | Kusavadra | ... | 25 |
| (xxvi) | Daya | ... | 9 |
| (xxvii) | Rajua | ... | 7 |
| (xxviii) | Makara | ... | 11 |
| (xxix) | Others ** | ... | 367 |
| | Total \$ | 1378 | 1555 |
| 10 | TAMIL NADU | | |
| (i) | Anantha Victoria Marthandavarna | 27 | 12 |
| (ii) | North Buckingham Canal | 58 | ... |
| (iii) | Central Buckingham Canal | 7 | ... |
| (iv) | South Buckingham Canal | 105 | ... |
| | Total | 197 | 12 |
| 11 | UTTAR PRADESH*** | | |
| (i) | Gomti | 960 | ... |
| (ii) | Rapti | 778 | ... |
| (iii) | Ghaghra | 1116 | ... |
| (iv) | Ganga | 2345 | 425 # |
| (v) | Sai | 760 | ... |
| (vi) | Tons | 485 | ... |
| | Total | 6444 | |
| 12 | WEST BENGAL | | |
| (i) | Hooghly | 580 | 580 |
| (ii) | Mahananda | 206 | 58 |
| (iii) | Ajoy | 174 | 174 |
| (iv) | Jalangi | 232 | 232 |

Table No. 1.1 (Contd...)

Navigable Waterways in India

(In Kms.)

| Sl. No. | State/Rivers/Canals/Lakes | 2013-14 | |
|-----------|---------------------------|--|------------------|
| | | Total Length of the Rivers/Canals/Lakes in the State | Navigable Length |
| 1 | 2 | 3 | 4 |
| (v) | Dwarka | 129 | 129 |
| (vi) | Bakreswar | 102 | 102 |
| (vii) | Damodar | 437 | 437 |
| (viii) | Dwarekeswar | 103 | 103 |
| (ix) | Silabati | 135 | 135 |
| (x) | Kumari | 347 | 347 |
| (xi) | lchamati | 232 | 232 |
| (xii) | Others@ | 2064 | 2064 |
| | Total | 4741 | 4593 |
| 13 | NAGALAND*** | | |
| (i) | Doyans | 185 | 105 |
| (ii) | Tizu/Zungki | 287 | 90 |
| (iii) | Dhansiri/Chathe | 170 | 75 |
| (iv) | Dikhu | 120 | 52 |
| (v) | Tapi-Yangnyu | 95 | 18 |
| (vi) | Tsurang/Disai | 60 | 15 |
| (vii) | Others | 20 | 20 |
| | Total | 937 | 375 |
| 14 | MIZORAM | | |
| (i) | R. Tlawng (Dhaleswari) | 185 | 81 |
| (ii) | R. Kolodyne (Chhimtuipui) | 138 | 80 |
| (iii) | Khawthlang Tuipui | 128 | 63 |
| (iv) | R. Tuichawrg | 174 | 73 |
| (v) | Tul River | 138 | 51 |
| (vi) | Others | 24 | 24 |
| | | 787 | 372 |

* Relates to 2012-13

** Including Canals.

*** Relates to 2007-08

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

... : Not available

Navigable length Pertains to NW I for Allahabad-Buxar stretch in Uttar Pradesh is available.

\$ Total length is less than navigable length as length of canals is not provided whereas navigable length of canals is provided.

Source: IWT Directorate of states & IWAI.

Table No. 1.2

Infrastructure Facilities Available on National Waterways (As on 31-3-2014)

| Navigational Channel | Availability and Capacity of Terminals | | | | | | |
|--|---|---------------------------------|--|----------------------------|--|---|---|
| | Depth (Meters) about 330 days in a year | 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 | 7 | 8 |
| National Waterway No.1 | | | | | | | |
| 1. Haldia - Farakka (560 Km) | 2.8 to 3.0 | (i) Haldia | 1500 | Two(Floating) | ... | One godown of size 12x30m and open storage (1630 sq.m.). | Being used for loading of fly ash, embark/disembark of tourists and logistic support. About 3 lakhs MT fly-ash loaded in 2013-14 |
| | | (ii) a) BISN, Kolkata | 1500 | One(Floating) | ... | Open storage | Being used for embark/disembark of tourists & logistics support. |
| | | (ii) b) G.R. Jetty-2,Kolkata | 3000 | Fixed RCC Jetty 70 m berth | ... | One transit shed of size 25m x 46m and open storage (4000 sqm) | Completed and being operational since Nov. 2013 |
| | | (iii) Botanical garden, Kolkata | 1500 | One(Floating) | ... | ... | Being used for embark/disembark & logistics support. |
| | | (iv)Shantipur | 600 | One(Floating) | ... | ... | Being used for embark/disembark of tourists. |
| | | (v) Swaroopganj | - | - | - | - | DGPS station is commissioned in the office premises. |
| | | (vi) Katwa | 600 | One(Floating) | ... | ... | Being used for embark/disembark & logistics support. |
| | | (vii) Hazardwari | 600 | One (floating) | ... | ... | Being used for embark/disembark of tourists. |
| | | (viii) Pakur (Putimari) | ... | One(fixed) | ... | ... | Owned by Farakka Barrage Project(FBP). |
| (ix) Farakka | ... | One(fixed) And Two(Floating) | ... | One covered godown | The berth and godown are owned by FBP. Floating jetties (IWAI) being used for embark/disembark of tourists and logistic support. | | |
| 2. Farakka - Barh (400 km) | 2.1 to 2.5 | (x)Manglaghat (Rajmahal) | 600 | One(Floating) | ... | - | Being used for embark/disembark of tourists and logistics support. |
| | | (xi) Samudarghat(Sahibganj) | 600 | One(Floating) | ... | - | Being used for loading of stone chips and embark/disembark facility. |
| | | (xii) Bateshwarsthan | 600 | One (Floating) | ... | - | Being used for embark/disembark of tourists and logistic support. |
| | | (xiii) Bhagalpur | 600 | One(floating) | ... | Open storage | Being used for embark/disembark of tourists and logistic support. One DGPS station is commissioned and being operational at Bhargalpur. |
| | | (xiv) Munger | 600 | One (Floating) | ... | - | Being used for embark/disembark of tourists and logistic support. |
| | | (xv) Semaria | 600 | One(floating) | ... | ... | Being used for embark/disembark of tourists. |

Table No. 1.2 (Contd...)

Infrastructure Facilities Available on National Waterways (As on 31-3-2014)

| Navigational Channel | Availability and Capacity of Terminals | | | | | | |
|---|--|---------------------------|-----------------------------|--|-----------------------------------|---|---|
| | Depth (Meters) about 330 | Place | Size of Vessels that can be | No. of Berths | Cargo Handling Equip. and their | Type and Extent of Storage Facility Available | Remarks |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 3. Barh-Ghazipur (290 km) | 1.6 to 2.0 | (xvi) a) Patna | 600 | 1 Fixed RCC (Low & High Jetties of 50m & 70m berth respectively | 2 Shore cranes Container crane | 1 Open storage and one Transit Shed of 45 x 15m | Low and high level permanent Jetties are operational since 2008 & 2012 respectively and capable for handling of containers & general cargo. Besides storage facility and bunkering facility are also available. One DGPS station is commissioned and being operational at Patna |
| | | (xvi) b) Patna | 600 | One (Floating) | Crane Pontoon | ... | Being used for embark/disembark of tourists and logistic support during lean season |
| | | (xvii) Buxar | 600 | One (Floating) | ... | ... | Being used for embark/disembark of tourists and logistic support. |
| 4. Ghazipur-Allahabad (370 km) In Chunar- Allahabad stretch (198 km) no river conservancy works was undertaken | 1.2 to 1.5 | (xviii) Ghazipur/ Rajghat | 600 | One(floating) | ... | ... | Being used for embark/disembark of tourists and logistic support. |
| | | (xix) Varanasi | 600 | One(floating) | - | Land measuring of 5.586 hectare is available for open storage | Being used for embark/disembark and logistic support. In addition, an IWT intermodal terminal and DGPS station are to be taken up. Land measuring 5.568 Hect. has been acquired for setting up terminal facility. |
| | | (xx) Allahabad | 600 | One (floating) | ... | Land measuring of 8.759 hectare is available for open storage | Being used for embark/disembark of tourists and logistic support. Land measuring 8.759 Hect. has been acquired for setting up terminal facility. |

Note :

- 1) Floating terminals with pontoon/crane can be shifted and provided at any location along waterway on need basis.
- 2) Night navigation aids have been provided in Tribeni and Varanasi with Day channel marking provided in Tribeni- Allahabad stretches of NW-1.
- 3) River notices are issued on fortnightly during lean season and monthly basis during flood season.

Table No. 1.2 (Contd...)

Infrastructure Facilities Available on National Waterways (As on 31-3-2014)

| Navigational Channel | Availability and Capacity of Terminals | | | | | | |
|---|--|------------------------|-----------------|--------------------------|--|-----------------------------------|---|
| | Depth (Meters) | Place | Size of Vessels | No. of Berths | Cargo Handling | Type and Extent of | Remarks |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| National Waterways No. 2 | | | | | | | |
| 1. Bangladesh Border-Pandu (255 km) | 2.5 | (a) Dhubri | 600 | One(floating) | Crane prontoon | - | (i) Storage facility is being developed (ii) DGPS station is commissioned (iii) A Ro- Ro terminal is being constructed. |
| | | (b) Jogighopa | 600 | One(floating) | Crane prontoon | Open storage facility available | DGPS station is commissioned |
| | | (c) Pandu | 600 | One(low level RCC jetty) | One Container crane of 7.5 T capacity, two tyre mounted crane of 20 T capacity | 2 transit sheds of 75 x 21 m each | Construction of one high level jetty is also completed. |
| 2. Pandu-Neamati (374 km) | 2.5 | (d) Tezpur | 600 | One(floating) | Crane prontoon | - | DGPS station is commissioned. |
| | | (e) Silghat | 600 | One(floating) | - | Open storage facility available | |
| | | (f) Neamati | 600 | One (floating) | Crane prontoon | - | |
| 3. Neamati-Dibrugarh (139 km) | 2.0 | (g) Bogibeel | 600 | One (floating) | - | - | |
| | | (i) Sengajan/Panbari | 600 | One (floating) | Crane prontoon | - | |
| 4. Dibrugarh-Sadiya (Orumghat) (123 km) | 1.5 | (j) Oakland/ Dibrugarh | 600 | One(floating) | - | - | DGPS station is commissioned. |
| | | (k) Orumghat | 600 | One (floating) | - | - | |

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.
- 3) Thalweg servery are conducted and river notices issued on regular monthly/fortnightly basis.
- 4) For providing Differential Global Positioning System (DGPS) connectivity on the entire waterway, DGPS stations have been setup at Dhubri, Jogighopa, Silghat and Dibrugarh.

Table No. 1.2 (Contd...)

Infrastructure Facilities Available on National Waterways (As on 31-3-2013)

| Navigational Channel | Availability and Capacity of Terminals | | | | | | |
|-------------------------------------|--|---------------------------|-----------------|---------------------------------------|--------------------------------|--|---|
| | Depth (Meters) | Place | Size of Vessels | No. of Berths | Cargo Handling | Type and Extent of | Remarks |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| National Waterways No. 3 | | | | | | | |
| 1. Kochi-Kottapuram (30 km) | 2.0 | (a) Kottapuram | 350.0 | One fixed | One 18 T crane & 3 T Fork lift | 400 Sqm covered storage (20m x 20m) and open storage (approx. 1500-2000 Sqm) | Terminal has a road connectivity. |
| 2. Udyogmandal Canal (23 km) | 2.0 | (b) Aluva | 350.0 | One fixed | One 18 T crane & 3 T Fork lift | 400 Sqm covered storage (20m x 20m) and open storage (approx. 1500-2000 Sqm) | Terminal has a road connectivity. |
| 3. Champakara Canal (14 km) | 2.0 | (c) Ernakulam GC (Maradu) | 350.0 | One fixed | One 18 T crane & 3 T Fork lift | 400 Sqm covered storage (20m x 20m) and open storage (approx. 1500-2000 Sqm) | Terminal has a road connectivity. A proposal for alternative road connectivity for container/heavy traffic by acquiring 2871 sqm land @ Rs 11.45 Cr. through State Govt is in progress. |
| | | (d) Kakkanad (CSEZ) | | | | | Only Land for terminal acquired. It shall be developed later. |
| | | (e) Vaikom | 350.0 | One fixed | One 18 T crane & 3 T Fork lift | 400 Sqm Covered storage (20m x 20m) and open storage (approx. 1500-2000 Sqm) | Terminal has a road connectivity. |
| | | (f) Chertala | 350.0 | One fixed | One 18 T crane & 3 T Fork lift | 400 Sqm Covered storage (20m x 20m) and open storage (approx. 1500-2000 Sqm) | Terminal has a road connectivity. |
| | | (g) Alapuzha | | | | 406 Sqm storage (20m x 20m) and open storage (approx. 1500-2000 Sqm) | Terminal is under construction through CPWD. |
| 4. Kochi - Chavara (107 km) | 2.0 | (h) Trikunnapuzha | 350.0 | One fixed | One 18 T crane & 3 T Fork lift | 400 Sqm Covered storage (20m x 20m) and open storage (approx. 1500-2000 Sqm) | Terminal has a road connectivity. |
| | | (i) Kayamkulam | 350.0 | One fixed | One 18 T crane & 3 T Fork lift | 400 Sqm Covered storage (20m x 20m) and open storage (approx. 1500-2000 Sam) | Terminal has a narrow road connectivity. A proposal for alternative road connectivity examined. |
| | | (j) Chavara | | | | | Only land for terminal acquired. The terminal will be developed later. |
| 5. Chavara- Kollam (31 Km) | 1.5 | (k) Kollam | 350.0 | One fixed | One 18 T crane & 3 T Fork lift | 300 Sqm Covered storage (20m x 25m) and open storage (approx. 1500-2000 Sqm) | Terminal has a road connectivity. |
| 6. CPT Area | 2.2 | (l) Willingdon island | 16 TEU | One fixed berth for container vessels | 5 T Crane through agency | 5000 sqm open storgae | These terminals have been constructed for container movement to International Container Trashipment Terminal. Operation commenced w.e.f. 23.02.2011. |
| | | (m) Bolgatty island | 16 TEU | One fixed berth for container vessels | 40 T Crane through agency | 8000 sqm open storgae | |

1) Channel marks for 24 hrs navigation provided on the entire waterway.

2) Thalweg servery and river notices are issued on monthly basis.

Table No. 1.3

Infrastructure Facilities Available on State Waterways (As on 31-3-2014)

| Sl. No. | Navigational Channel | Depth (Meters) | Availability and Capacity of Terminals | | | | | Remarks |
|---------|--|----------------|--|--|--------------------------------------|--|---|--|
| | | | Place | Size of vessels that can be accommodated (DWT)/dimension | No. of berths | Cargo handling equip. and their capacity | Type and extent of storage facility available | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 1 | ANDHRA PRADESH Godavari River | NIL | NIL | NIL | NIL | NIL | NIL | NIL |
| | Kakinada Canal | 2.98/1.98 | Z-Medaoadu to Kovvur | -- | -- | -- | -- | |
| | Samarlakota Canal | 2.17/1.95 | Dowlaiswaram- Kakinada | -- | -- | -- | -- | |
| | G.E. Banak Canal | 2.86/2.13 | Vemagiri- Tallarevu | -- | -- | -- | -- | |
| | Amalapuram Canal | 2.225/1.890 | Bobbarlanka-Challapalli Lock | -- | -- | -- | -- | |
| | Krishna River | | | | | | | |
| | Eluru Canal | -- | -- | -- | -- | -- | -- | Through the canals noted in Col.(1) are designed for Navigation Canal long back i.e. 100 to 150 years at present no Inland Water Facility is being utilized. |
| | Ryves Canal | -- | -- | -- | -- | -- | -- | |
| | Polraj Canal | -- | -- | -- | -- | -- | -- | |
| | Campbell Canal | -- | -- | -- | -- | -- | -- | |
| | Bantumilli Canal | -- | -- | -- | -- | -- | -- | |
| | Bandar Canal | -- | -- | -- | -- | -- | -- | |
| | K.E.B. Canal | -- | -- | -- | -- | -- | -- | |
| 2 | BIHAR | 2 metres | (I) (a) Sahebganj- Manihari | 134'x31' 80'x15'x7" | 2 Nos. 1 Nos. | Nil Nil | Nil Nil | - - |
| | | | (II) Kahalgaon-Tintanga | 55x13'3"x4'8' 60'x16'x6' | 1 Nos. 2 Nos. | Nil Nil | Nil Nil | - - |
| | | | (III) Sultanganj - Agwani | 70'x18'x6' | 2 Nos. | Nil | Nil | - |
| | | | (IV) (a) Munghyr- Raighat | 56'x14'x6' 58'x16'x5'8 47'x13'x5'8 60'x16'x5'5' | 1 Nos. 1 Nos. 1 Nos. 1 Nos. | Shore crane- 2 Pontoon crane-2 Container crane-1 | Godown | - |
| | | | (V) Buxar-Ujirghat | - | - | - | - | At IWAI terminal |
| 3 | GOA | | | | | | | |
| | Panaji Port (River Mandoi) | 3.30 metres | Panaji | 75 Mtrs Length | 1 | - | - | Ports jetty being used by vessels calling in the Ports |

Table No. 1.3 (Contd...)

Infrastructure Facilities Available on State Waterways (As on 31.3.2014)

| Sl. No. | Navigational Channel | Depth (Meters) | Availability and Capacity of Terminals | | | | | Remarks |
|----------|---|-------------------------------|--|--|---------------|--|---|--|
| | | | Place | Size of vessels that can be accommodated (DWT)/dimension | No. of berths | Cargo handling equip. and their capacity | Type and extent of storage facility available | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 4 | ORISSA | | | | | | | |
| | Balugaon Sector | | | | | | | |
| | Balugaon-K.Prasad | Varies between 2 to 10 metres | Lake Chilka | 30 ft and above | 2 | - | NA | Passenger waiting hall & Jetty are available at Balugaon & Krishna Prasadgarh. |
| | Balugaon-Kalijai | 2 to 10 Metres | Lake Chilka | 40 ft and above | 2 | - | -do- | Block wall at kalijai is available for berthing & landing. kalijai. |
| | Balugaon-Nuapada | 2 to 4 Metres | Lake Chilka | 30 ft | 2 | - | -do- | No Jetty and waiting hall is available at Nuapada. |
| | Balugaon-Satapada | 2 to 4 Metres | Lake Chilka | 30 ft | 2 | - | -do- | Passenger waiting hall & Jetty are available at Satapada. |
| | Astarang Sector | | | | | | | |
| | Nuagarh-Sribantpur | 2 to 10 Metres | River Devi | 26 ft | 3 | - | -do- | Jetty & Wating hall is available for the services of passenger. |
| | Chandabali Sector | | | | | | | |
| | Chandabali-Rajnagar | Varies between 7 to 10 metres | River Baitarani/ Brahmani | 52 ft | 13 | - | -do- | Jetty & waiting hall are available at Chandbali, Nalitapatia, Chardia & Raj Nagar. |
| | Chandabali-Talucha | Varies between 7 to 20 metres | Baitarani/Kharastrotta/ | 50 ft | 10 | - | -do- | - |
| | Chandabali-Aradi | Varies between 7 to 18 meters | Brahmani | 35' | 3 | - | -do- | Both Jetty and waiting hall is available at Aradi. |
| 5 | TAMILNADU | 41.46 | Thekkady | Vessel 1 (kannagi) Length-8.5m Breadth-3m Depth-1.4m | - | - | - | - |
| | Periyar Lake in Kerala (Under lease in T.N.) | | | Vessel 2(Jairatna) Length-11.5m Breadth-2.4m Depth-1.6m | - | - | - | - |
| | Anantha Victoria Marthandavarma Canal (AVM) | 4 m (Average) | Kanyakumari District of Tamil Nadu | 3.5 m | - | - | - | - |
| 6 | MIZORAM | | | | | | | |
| | 1. R. Tlawng | 1.4 | (a) Sairang | 5 Tonnes Power Vessel | 1 | - | RCC Building | 300 tonnes capacity |
| | 2. R. Tlawng | 1.2 | (b) Bairabi | 5 Tonnes Power Vessel | 1 | - | RCC Building | 300 tonnes capacity |

Source : State Govts.

SECTION – 2

**CARGO MOVED ON
VARIOUS WATERWAYS**

Table No. 2.1**Cargo Movement on National Waterways,
Goa & Maharashtra Waterways**

| Sl.No. | Details of Waterway | Distance (Kms) | Cargo Moved (lakh Tonnes) | | Tonne Kms (in lakh) | |
|--------|---|----------------|---------------------------|---------------|---------------------|--------------|
| | | | 2012-13 | 2013-14 | 2012-13 | 2013-14 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1 | National Waterway No. I (Allahabad-Haldia stretch of Ganga – Bhagirathi – Hooghly river system) | 1620 | 27.16 | 33.49 | 15119 | 18512 |
| 2 | National Waterway No. II (Sadiya-Dhubri stretch of Brahmaputra River system) | 891 | 24.27 | 24.75 | 580 | 594 |
| 3 | National Waterway No. III (Kollam-Kottapuram stretch of West Coast Canal along with Champakara Canal and Udyogmandal Canal) | 205 | 12.36 | 10.66 | 139 | 116 |
| | Sub Total NWs | 2716 | 63.79 | 68.90 | 15838 | 19222 |
| 4 | Goa Waterways | 202 | 106.77 | 5.99 | 10240 | 270 |
| 5 | Maharashtra Waterways | 453 | 241.96 | 247.74 | 4551 | 4691 |
| | Grand Total | 3371 | 412.52 | 322.63 | 30629 | 24183 |

Source: Inland Waterways Authority of India for National Waterways

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

Maharashtra Maritime Board for Maharashtra Waterways

Table No. 2.2**Details of Cargo Moved on National Waterways (National Waterway No.I) - THE GANGA**

(In tonnes)

| Sl. No. | River/Stretch | Approximate Distance (Kms) | 2011-12 | 2012-13 | 2013-14 | Cargo generally moved |
|-----------|---|----------------------------|---------------|---------------|---------------|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| A. | CIWTC(^) | | | | | |
| 1 | Haldia-Budge-Budge | 74 | 4400 | ... | ... | POL, Waste Oil |
| 2 | (l)Saugar-Diamond Harbour/Haldia /Kolkatta/ | | | | | Pulses,Logs,Salt,Iron Ore,Steel, Fly Ash,Aluminium block, Fertilizer, Container, ODC,Sand Clips |
| | Kolkatta Internal | 144/80 | 15235 | 19650 | ... | |
| 3 | Kolkatta-Karimganj-Badarpur | 1218 | ... | ... | ... | Fly ash, Food Grains |
| 4 | Haldia-Gorma Island | 30 | 1650 | ... | ... | Boulder |
| 5 | Patna-Kolkatta | 530 | 1500 | ... | ... | Stone-Chips |
| 6 | Haldir-Internal | 2 | 8250 | 1650 | ... | Sand, Clips |
| 7 | Haldir-Jamuraia | 1096 | 208 | ... | ... | ODC |
| 8 | Kolkatta- Ichamati River at Basirhat | 2 | ... | ... | 8250 | Sand, Clips |
| | Sub Total (A) | | 31243 | 21300 | 8250 | |
| B. | VIVADA IWL | | | | | |
| 1 | Haldia-Kolkatta | 100 | ... | ... | ... | HSD/FO/LDO |
| 2 | Haldia-Budge-Budge | 78 | 109630 | 95072 | 66607 | FO, LDO, HSD |
| 3 | Haldia-NSD | 106 | 66245 | 52969 | 54595 | LO,HSD, Lube Oil, FO |
| 4 | Haldia-Surinam | 48 | 2088 | ... | ... | FO |
| 5 | Budge-Budge-NSD | 21 | 4513 | 2656 | ... | MSD, HF |
| 6 | Budge-Budge-Surinam | 48 | 249 | ... | ... | FO, HSD |
| 7 | Budge-Budge-KPD | 21 | 245 | 916 | ... | FO, HSD |
| 8 | Haldia-Namkhana | 46 | 4343 | 3923 | 305 | HF, HSD |
| 9 | Budge-Budge-Pujali | 5 | ... | ... | 434 | LDO |
| 10 | Haldia-Haldia Oil Barge | 3 | ... | ... | 16948 | HSD |
| 11 | Haldia-Haldia Oil Jetty | 4 | 70600 | 66057 | 70724 | FO |
| 12 | Surninam-KPD | 4 | 70 | 1031 | 140 | FO |
| 13 | Surninam-NSD | 1 | 79 | ... | ... | HSD, HF |
| 14 | Haldia-HOB | 3 | 23622 | 24717 | ... | |
| 15 | KPD-KPD | 1 | 270 | ... | ... | |
| 16 | Budge Budge - Kolkatta | 21 | ... | ... | 2310 | HF, HSD |
| | Sub Total (B) | | 281954 | 247341 | 212063 | |

^ : Data for the year 2010-11, 2011-12 & 2012-13 is taken from monthly returns.

**Table No. 2.2
(Contd...)**

Details of Cargo Moved on National Waterways (National Waterway No.I) - THE GANGA

(In tonnes)

| Sl. No. | River/Stretch | Approximate Distance (Kms) | 2011-12 | 2012-13 | 2013-14 | Cargo generally moved |
|---|--------------------------------|----------------------------|---------|---------|---------|---------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| C. OTHER PRIVATE OPERATORS | | | | | | |
| 1 TIRUPATI VESSEL(P)LTD. | | | | | | |
| 1 | Kolkatta-Mongla (Bangla desh) | ... | ... | ... | ... | Flyash |
| 2 | Kolkatta-Khulna (Bangla desh) | 507 | 90062 | ... | ... | Flyash |
| 3 | Kolkatta-Narayanganj (B'Desh) | 894 | 233722 | ... | ... | Flyash |
| 4 | Budge- Budge(Kol)- Khulna | 497 | ... | 99534 | 104484 | Flyash |
| 5 | Budge- Budge Narayanganj | 884 | ... | 285858 | 308004 | Flyash |
| 6 | Kolkatta-Ashuganj | 998 | 722 | ... | ... | ODC Kargo |
| 2 RELIANCE EXPORT CORPORATION | | | | | | |
| 1 | Kolkata-Narayanganj(B'Desh) | 894 | 16244 | ... | ... | Flyash |
| 2 | Haldia-Narayanganj(B'Desh) | 836 | 1106 | ... | ... | Flyash |
| 3 | Kolkatta-Khulna (Bangla desh) | - | ... | ... | ... | Flyash |
| 4 | T.T.Shed-Narayanganj | 910 | 710 | 7153 | ... | Flyash |
| 5 | Budge- Budge Narayanganj | 884 | - | - | 2646 | Flyash |
| 6 | IWAI BISN Jetty-Narayanganj | 909 | - | - | 1374 | Flyash |
| 3 Maitrayee Shipping & Logistics | | | | | | |
| 1 | Kolkatta-Khulna (B'Desh) | 507 | 14006 | ... | ... | Flyash |
| 2 | Kolkatta-Narayanganj (B'Desh) | 894 | 63886 | ... | ... | Flyash |
| 3 | Haldia-Karimganj | 1253 | ... | ... | ... | Spnoge Iron |
| 4 | IWAI BISN Jetty-Narayanganj | 909 | 8588 | 4955 | 7494 | Flyash |
| 5 | Kolkatta (SR Jetty)-Naryanganj | 910 | 760 | ... | ... | Flyash |
| 6 | IWAI BISN Jetty-Khulna | 522 | 3637 | 699 | 636 | Flyash |
| 7 | T.T.Shed-Narayanganj | 910 | ... | 25233 | 11184 | Flyash |
| 8 | T.T.Shed-Mongla | 510 | ... | 2180 | ... | Flyash |
| 9 | Budge Budge- Naryanganj | 884 | ... | 44984 | 33923 | Flyash |
| 10 | Budge Budge- Khulna | 497 | ... | 2525 | ... | Flyash |
| 11 | Sri Ram Jetty - Narayanganj | 905 | - | - | 2790 | Flyash |
| 12 | Budge Budge - Karimganj | 1332 | - | - | 642 | Flyash |
| 4 P K Shipping | | | | | | |
| 1 | Kolkata-Khulna (B. Desh) | 507 | 770 | ... | ... | Flyash |
| 2 | Kolkata-Narayanganj(B. Desh) | 894 | 149444 | ... | ... | Flyash, Slg, MS wired rod |
| 3 | Budge- Budge Narayanganj | 884 | ... | 101227 | 20130 | Flyash |
| 4 | Narayanganj- T.T.Shed | 910 | ... | 500 | ... | Cement |
| 5 | K.P.Dock-Narayanganj | 910 | ... | 787 | 3836 | HR Steel Coils & Plates |
| 6 | Haldia H.D.C.-Karimganj | 1274 | ... | 2225 | ... | Coal |

Table No. 2.2**Details of Cargo Moved on National Waterways (National Waterway No.I) - THE GANGA**

(In tonnes)

| Sl. No. | River/Stretch | Approximate Distance (Kms) | 2011-12 | 2012-13 | 2013-14 | Cargo generally moved |
|----------|---|----------------------------|---------|---------|---------|--------------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 7 | Kolkatta-Karimganj | 1358 | ... | 1554 | ... | ODC Kargo |
| 8 | T.T.Shed-Ashuganj | 1048 | 867 | ... | ... | Steel Shed |
| 9 | NSD Kolkatta-Narayanganj | 895 | 1223 | ... | ... | Flyash |
| 10 | Kolkatta-Mongla (Bangla desh) | 494 | 996 | ... | ... | Flyash |
| 11 | NSD Kolkatta-Ashuganj | 1046 | 5591 | ... | ... | ODC Kargo |
| 12 | Sri Ram Jetty-Narayanganj | 905 | - | - | 24073 | Flyash |
| 13 | K.P.Dock-Khulna | 523 | - | - | 1622 | Dolomite Powder, Steel Sheet |
| 5 | SOHAM COMMERCIAL | | | | | |
| 1 | Kolkata- Khulna(B' Desh) | 424 | ... | ... | ... | Flyash |
| 2 | Kolkata-Narayanganj (B' Desh) | 894 | 1155 | ... | ... | Flyash |
| 3 | Kolkatta(Sri Ram Jetty)-Narayanganj | 905 | 10923 | 761 | ... | Flyash |
| 4 | T.T.Shed-Narayanganj | 910 | 3624 | 50139 | 81267 | Flyash |
| 5 | T.T.Shed-Khulna | 523 | - | - | 745 | Flyash |
| 6 | Khulna - FSEZ Jetty(Falta), Kolkatta, India | 472 | - | - | 291 | Jute Carpet, Baking Cloth |
| 7 | KPD - Narayanganj | 910 | - | - | 1329 | Steel Coil |
| 6 | RENAISSANCE IMPEX Pvt Ltd | | | | | |
| 1 | Kolkata-Narayanganj (B'Desh) | 894 | 15841 | ... | ... | Slag,Flyash,MS wire Rod |
| 2 | Haldia-Narayanganj | 780 | ... | ... | ... | Flyash, Slag |
| 3 | IWAI BISN Jetty-Narayanganj | 909 | 28875 | 16137 | 44463 | Flyash |
| 4 | IWAI BISN Jetty-Mongla | 519 | 864 | ... | ... | Flyash |
| 5 | IWAI BISN Jetty-Karimganj Assam | 1357 | 405 | 1950 | ... | Flyash, HDPE Bags, Coal |
| 6 | Sri Ram Jetty-Narayanganj | 905 | 31230 | 21657 | 992 | Flyash |
| 7 | Sri Ram Jetty-Khulna | 528 | 1778 | ... | ... | Flyash |
| 8 | Karimganj Assam-IWAI BISN Jetty | 1357 | 172 | 900 | ... | Coal |
| 9 | Kolkatta(T.T.Shed)-Narayanganj | 896 | 25651 | ... | ... | Flyash |
| 10 | IWAI Haldia Jetty- Narayanganj | 826 | ... | 4767 | 2805 | Flyash |
| 11 | Shri Ram Jetty- Mongla | 505 | ... | 998 | ... | Flyash |
| 12 | TT Shed-Narayanganj | 910 | ... | 22759 | 12469 | Flyash |
| 13 | Budge Budge Naryanganj | 884 | ... | 18549 | 52074 | Flyash |
| 14 | Budge Budge Karimganj | 1332 | ... | 558 | ... | Flyash |
| 15 | Kolkatta-Khulna | 507 | 1320 | ... | ... | Flyash |
| 16 | KPD - Mongla | 510 | - | - | 1184 | Prime Hot Roll Non Alloy Steel Coils |

**Table No. 2.2
(Contd...)**

Details of Cargo Moved on National Waterways (National Waterway No.I) - THE GANGA

(In tonnes)

| Sl. No. | River/Stretch | Approximate Distance (Kms) | 2011-12 | 2012-13 | 2013-14 | Cargo generally moved |
|----------|--|----------------------------|---------|---------|---------|-----------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 7 | Rivering Shipping & Logistics | | | | | |
| 1 | Kolkata-Narayanganj | 894 | 20693 | ... | ... | Flyash |
| 2 | Kolkatta (BISN Jetty)-Narayanganj | 895 | 1270 | ... | ... | Flyash |
| 3 | Kolkatta(BB)-Khulna | 507 | 3837 | ... | ... | Flyash |
| 4 | IWAI Haldia Jetty-Khulna | 439 | 2513 | 1450 | ... | Flyash |
| 5 | Budge- Budge (Kol)- Khulna | 497 | ... | 6039 | 2666 | Flyash |
| 6 | Budge Budge Naryanganj | 884 | ... | 17223 | 26210 | Flyash |
| 7 | TT Shed-Narayanganj | 910 | ... | 7274 | 5812 | Flyash, Coal dust |
| 8 | K P Dock- Khulna | 523 | ... | 1997 | ... | Wheat |
| 9 | Sri Ram Jetty-Khulna | 518 | ... | 2574 | ... | Flyash |
| 10 | Sri Ram Jetty-Narayanganj | 905 | ... | 8091 | 10484 | Flyash |
| 11 | IWAI Haldia Jetty-Narayanganj | 826 | 2699 | ... | 10852 | Flyash |
| 12 | K P Dock- Mongla | 510 | - | - | 1157 | Maize |
| 13 | NSD - Mongla | 508 | - | - | 850 | Maize |
| 8 | GLOBAL SHIPPING & Forwarding | | | | | |
| 1 | Kolkata-Khulna | 507 | 3216 | ... | ... | Flyash |
| 2 | Kolkata-Narayanganj(B' Desh) | 894 | 2757 | ... | ... | Flyash |
| 3 | Haldia-Mongla(B' Desh) | 413 | ... | ... | ... | Flyash |
| 4 | Kolkata-Mongla(B' Desh) | 494 | 1546 | ... | ... | Flyash |
| 5 | Budge Budge-Narayanganj | 884 | ... | 3266 | 1466 | Flyash |
| 6 | Budge Budge-Khulna | 497 | ... | 4646 | 5494 | Flyash |
| 7 | IWAI BISN Jetty-Khulna | 522 | 9880 | 2938 | 813 | Flyash |
| 8 | IWAI BISN Jetty-Narayanganj | 909 | 1848 | 810 | ... | Flyash |
| 9 | T.T.Shed-Khulna | 523 | - | - | 570 | Flyash |
| 10 | IWAI Haldia Jetty - Khulna | 522 | - | - | 2193 | Flyash |
| 11 | T.T.Shed-Narayanganj | 910 | - | - | 1688 | Flyash |
| 9 | COASTAL CONNEXIONS | | | | | |
| 1 | Kolkata-Narayanganj(B' Desh) | 894 | 25812 | ... | ... | Flyash |
| 2 | Haldia-Narayanganj | 780 | ... | ... | ... | Flyash |
| 3 | Haldia-Khulna | 446 | ... | ... | ... | Flyash |
| 4 | Kolkata-Khulna | 507 | 5325 | ... | ... | Flyash |
| 5 | Budge Budge-Narayanganj | 884 | ... | 10643 | ... | Flyash |
| 6 | Budge Budge-Karimganj | 1332 | ... | 1331 | 400 | Flyash |
| 7 | Budge Budge-Khulna | 497 | ... | 2277 | 3698 | Flyash |
| 8 | IWAI BISN Jetty-Narayanganj | 909 | 8738 | 3693 | 5443 | Flyash |
| 9 | BISN Jetty-Narayanganj | 1357 | ... | 1030 | ... | Flyash |
| 10 | IWAI BISN Jetty-Karimganj | 1357 | ... | 2170 | ... | Flyash |

**Table No. 2.2
(Contd...)**

Details of Cargo Moved on National Waterways (National Waterway No.I) - THE GANGA

(In tonnes)

| Sl. No. | River/Stretch | Approximate Distance (Kms) | 2011-12 | 2012-13 | 2013-14 | Cargo generally moved |
|-----------|--|----------------------------|---------|---------|---------|----------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 11 | BISN Jetty-Karimganj | 1357 | ... | 415 | ... | Coal |
| 12 | IWAI BISN Jetty-Khulna | 532 | 4299 | ... | ... | Flyash |
| 13 | IWAI Haldia Jetty-Khulna | 439 | 5023 | 2268 | 3372 | Flyash |
| 14 | IWAI Haldia Jetty-Narayanganj | 826 | 7928 | 4725 | 2078 | Flyash |
| 15 | Karimganj(Badarpur, Assam) - Narayanganj | 478 | - | - | 455 | Cement Clinker |
| 10 | KANISHKA SHIPPING LINES | | | | | |
| 1 | Kolkata-Narayanganj(B' Desh) | 758 | ... | ... | ... | Flyash |
| 2 | Budge Budge-Narayanganj | 884 | ... | 69689 | 63636 | Flyash |
| 3 | IWAI Haldia Jetty-Narayanganj | 826 | 36923 | 116523 | 99999 | Flyash |
| 4 | Sri Ram Jetty-Khulna | 518 | ... | 1078 | ... | Flyash |
| 5 | T.T.Shed-Narayanganj | 910 | 200 | 2406 | 15294 | Flyash, Tyre |
| 6 | Sri Ram Jetty-Narayanganj | 905 | 11380 | 750 | 1277 | Flyash |
| 7 | IWAI BISN Jetty-Khulna | 522 | ... | 520 | ... | Flyash |
| 8 | IWAI BISN Jetty-Narayanganj | 895 | 4099 | ... | 2850 | Flyash |
| 9 | T.T. Shed - Mongla | 510 | - | - | 2113 | Flyash |
| 11 | Eastern Navigation Pvt Ltd., Kolkatta | | | | | |
| 1 | Kolkatta-Zamania | 1065 | 1415 | 380 | ... | ODC Cargo |
| 2 | Kolkatta-Silghatghat | 1748 | ... | 165 | ... | ODC Cargo |
| 3 | Kolkatta- Ballia | 923 | 2306 | ... | ... | ODC (NW1) |
| 4 | Kolkatta-Fatua | 854 | ... | ... | ... | Flyash, Boiler Drum, Stator(ODC) |
| 5 | Haldia-Ashuganj | 933 | 300 | ... | ... | ODC (NW1) |
| 6 | Kolkatta-Bhaktiyarpur | 928 | 1776 | ... | ... | ODC Cargo |
| 7 | Haldia-Silghatghat | 1664 | ... | 96 | ... | ODC Cargo |
| 8 | Haldia-Balia | 1028 | 1258 | ... | ... | ODC (NW1) |
| 9 | Haldia-Zamania | 1170 | 1177 | ... | ... | ODC (NW1) |
| 10 | Haldia-Karimganj, Assam | 1284 | 842 | ... | ... | ODC (NW1) |
| 12 | A.K.Navigation | | | | | |
| 1 | Kolkata- Narayanganj | 894 | 3190 | ... | ... | Flyash |
| 2 | T.T.Shed-Narayanganj | 910 | ... | 1625 | ... | Flyash |
| 3 | T.T.Shed-Khulna | 523 | ... | 3080 | ... | Wheat |
| 4 | Kolkatta-Khulana | 507 | 4081 | ... | ... | Flyash |
| 5 | Haldia-Narayanganj | 836 | 701 | ... | ... | Flyash |

**Table No. 2.2
(Contd...)**

Details of Cargo Moved on National Waterways (National Waterway No.I) - THE GANGA

(In tonnes)

| Sl. No. | River/Stretch | Approximate Distance (Kms) | 2011-12 | 2012-13 | 2013-14 | Cargo generally moved |
|-----------|---------------------------------|----------------------------|---------|---------|---------|-------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 13 | Desha International | | | | | |
| 1 | Haldia- Narayanganj | ... | ... | ... | ... | Flyash |
| 2 | Budge Budge-Narayanganj | 884 | ... | 163487 | 201933 | Flyash |
| 3 | Kolkata-Narayanganj | 894 | 151056 | ... | ... | Flyash, Coal Durt, Slag, Coal |
| 4 | IWAI Haldia Jetty-Khulna | 439 | 11981 | 17075 | 9936 | Flyash |
| 5 | IWAI Haldia Jetty-Mongla | 426 | ... | 2908 | 3548 | Flyash |
| 6 | Haldia-Khulna | ... | ... | ... | ... | Flyash |
| 7 | Budge Budge-Khulna | 497 | ... | 2626 | 4759 | Flyash |
| 8 | IWAI BISN Jetty-Narayanganj | 909 | 7071 | 5445 | 1216 | Flyash |
| 9 | IWAI BISN Jetty-Karimganj | 1357 | 1655 | 1285 | ... | Flyash |
| 10 | BISN Jetty-Karimganj(Badarpur) | 1357 | ... | 550 | ... | Coal |
| 11 | Kolkatta-Khulana | 507 | 13212 | ... | ... | Flyash |
| 12 | Sri Ram Jetty-Mongla | 505 | ... | 1306 | ... | Flyash |
| 13 | Sri Ram Jetty-Khulna | 518 | 1025 | 7719 | 5568 | Flyash |
| 14 | Sri Ram Jetty-Narayanganj | 905 | 10646 | 34963 | 84687 | Flyash |
| 15 | T.T.Shed-Mongla | 510 | ... | 2836 | 531 | Wheat,Soyabean Extraction |
| 16 | T.T.Shed-Khulna | 523 | ... | 2400 | ... | Wheat |
| 17 | T.T.Shed-Narayanganj | 910 | 5854 | 24444 | 44291 | Flyash,Wheat,Coal |
| 18 | K.P.Dock-Mongla | 510 | ... | 22614 | 2658 | Wheat,Maize |
| 19 | K.P.Dock-Khulna | 523 | ... | 30083 | ... | Wheat |
| 20 | IWAI Haldia Jetty-Narayanganj | 826 | 123831 | 183804 | 244897 | Flyash |
| 21 | IWAI BISN Jetty-Khulna | 532 | 600 | ... | 606 | Flyash |
| 22 | Karimganj Assam-IWAI BISN Jetty | 1367 | 135 | ... | ... | Coal |
| 23 | Karimganj Assam-T.T.Shed | 1368 | 598 | ... | ... | Coal |
| 24 | Budge Budge- Mongla | 484 | - | - | 1438 | Flyash |
| 25 | IWAI BISN Jetty (kol)- Mongla | 509 | - | - | 1407 | Flyash |
| 26 | K.P.Dock-Narayanganj | 910 | - | - | 1450 | Maize |
| 27 | NSD - Narayanganj | 908 | - | - | 2942 | Soyabean Extraction, Maize |
| 28 | NSD- Mongla | 508 | - | - | 1347 | Maize |
| 14 | Reliance Enterprise | | | | | |
| 1 | Kolkata-Narayanganj | 894 | 20883 | ... | ... | Flyash |
| 2 | Haldia-Narayanganj | 836 | 895 | ... | ... | Flyash |
| 3 | Budge Budge-Narayanganj | 884 | ... | 2277 | 12367 | Flyash |
| 4 | Budge Budge-Khulna | 497 | ... | 698 | ... | Flyash |
| 5 | Sri Ram Jetty-Khulna | 518 | ... | 612 | ... | Flyash |
| 6 | Kolkatta-Khulna | 507 | 4808 | ... | ... | Flyash |
| 7 | IWAI BISN Jetty-Narayanganj | 909 | 2342 | 2994 | 699 | Flyash |
| 8 | T.T.Shed-Narayanganj | 910 | 1115 | 8983 | 12425 | Flyash |
| 9 | IWAI Haldia Jetty-Narayanganj | 826 | - | - | 1358 | Flyash |
| 10 | IWAI Haldia Jetty-Khulna | 439 | - | - | 2131 | Flyash |
| 11 | Sri Ram Jetty-Narayanganj | 905 | - | - | 4779 | Flyash |

**Table No. 2.2
(Contd...)**

Details of Cargo Moved on National Waterways (National Waterway No.I) - THE GANGA

(In tonnes)

| Sl. No. | River/Stretch | Approximate Distance (Kms) | 2011-12 | 2012-13 | 2013-14 | Cargo generally moved |
|-----------|--|----------------------------|---------|---------|---------|-----------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 15 | Saha Oversees Corporation | | | | | |
| 1 | Kolkata-Narayanganj | 894 | 36617 | ... | ... | Flyash |
| 2 | Budge Budge-Narayanganj | 884 | ... | 5138 | ... | Flyash |
| 3 | Sri Ram Jetty-Khulna | 518 | ... | 1855 | ... | Flyash |
| 4 | T.T.Shed-Narayanganj | 910 | 13617 | 8721 | ... | Flyash |
| 5 | Kolkatta (Sri Ram Jetty)-Narayanganj | 910 | 33764 | ... | ... | Flyash |
| 6 | IWAI BISN Jetty-Narayanganj | 895 | 3903 | ... | ... | Flyash |
| 7 | Kolkatta-Khulna | 507 | 960 | ... | ... | flyash |
| 16 | C. Day & Brothers | | | | | |
| 1 | Kolkata-Narayanganj | 894 | 32683 | ... | ... | Flyash |
| 2 | Budge Budge-Narayanganj | 884 | ... | 23597 | 52610 | Flyash |
| 3 | Budge Budge-Khulna | 497 | ... | 586 | 600 | Flyash |
| 4 | Kolkatta-Khulna | 507 | 486 | ... | ... | Flyash |
| 5 | Kolkatta(BISN Jetty)-Narayanganj | 895 | 840 | ... | ... | Flyash |
| 6 | Sri Ram Jetty-Khulna | 518 | ... | 758 | ... | Flyash |
| 7 | Sri Ram Jetty-Narayanganj | 905 | 4444 | 1362 | 5782 | Flyash |
| 8 | IWAI Haldia Jetty-Khulna | 439 | ... | 950 | 4919 | Flyash |
| 9 | IWAI BISN Jetty-Narayanganj | 909 | ... | 930 | ... | Flyash |
| 10 | IWAI Haldia Jetty-Narayanganj | 826 | 34016 | 4723 | 5886 | Flyash |
| 11 | Haldia-Khulna | 449 | 5412 | ... | ... | Flyash |
| 12 | T.T.Shed-Narayanganj | 910 | 2738 | 13652 | 4736 | flyash, Ironfines |
| 13 | IWAI BISN Jetty - Khulna | 522 | - | - | 905 | Flyash |
| 17 | Fortune Cargo (India Pvt Ltd) | | | | | |
| 1 | Kolkata-Narayanganj | 894 | 33085 | ... | ... | Flyash |
| 2 | Budge Budge-Narayanganj | 894 | ... | 16185 | 29765 | Flyash |
| 3 | IWAI Haldia Jetty-Narayanganj | 826 | ... | 692 | 780 | Flyash |
| 4 | T.T.Shed-Narayanganj | 910 | ... | 5129 | 2167 | Flyash |
| 5 | Haldia-Narayanganj | 805 | ... | ... | ... | Flyash |
| 6 | IWAI BISN Jetty-Khulna | 522 | ... | 755 | 633 | Flyash |
| 7 | IWAI BISN Jetty-Narayanganj | 909 | 4117 | 1112 | ... | Flyash |
| 8 | Kolkatta-Khulna | 507 | 1402 | ... | ... | Flyash |
| 9 | IWAI Haldia Jetty-Khulna | 449 | 1883 | ... | ... | Flyash |
| 18 | Sea Water Transport Co. Pvt Ltd | | | | | |
| 1 | Haldia-Narayanganj | 805 | ... | ... | ... | Flyash |
| 2 | T.T.Shed-Khulna | 523 | ... | 2239 | ... | Wheat |
| 3 | Haldia-Mongla | 405 | ... | ... | ... | Flyash |
| 4 | Haldia-Khulna | 418 | ... | ... | ... | Flyash |

**Table No. 2.2
(Contd...)**

Details of Cargo Moved on National Waterways (National Waterway No.I) - THE GANGA

(In tonnes)

| Sl. No. | River/Stretch | Approximate Distance (Kms) | 2011-12 | 2012-13 | 2013-14 | Cargo generally moved |
|-----------|---|----------------------------|---------|---------|---------|-----------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 5 | Kolkatta BISN Jetty-Kulna | 532 | 1136 | ... | ... | Flyash |
| 6 | IWAI Haldia Jetty-Khulna | 449 | 4470 | ... | ... | Flyash |
| 7 | IWAI Haldia Jetty-Mongla | 426 | - | - | 1140 | Flyash |
| 8 | IWAI BISN Jetty-Khulna | 522 | - | - | 1080 | Flyash |
| 19 | ABC India Ltd | | | | | |
| 1 | Kolkata-Tejpur | 1701 | ... | ... | ... | ODC (BO Route) |
| 2 | Kolkata-Ashuganj (B'desh) | 998 | ... | ... | ... | |
| 20 | Krishna Shipping & Logistics | | | | | |
| 1 | Budge Budge-Narayanganj | 884 | ... | 5288 | ... | Flyash |
| 2 | Budge Budge-Karimganj | 1332 | ... | 590 | ... | Flyash |
| 3 | Kolkata-Narayanganj | 894 | 17863 | ... | ... | Flyash |
| 4 | T.T. Shed-Narayanganj | 910 | ... | 5667 | ... | Flyash |
| 5 | Kolkatta-Pandu | 1432 | ... | 485 | ... | ODC Cargo |
| 6 | T.T. Shed-Ashuganj | 1048 | 622 | ... | ... | Iron ingots |
| 7 | IWAI BISN Jetty-Narayanganj | 895 | 1110 | ... | ... | Flyash |
| 8 | Haldia-Narayanganj | 836 | 13702 | ... | ... | Fly Ash |
| 21 | Neli | | | | | |
| 1 | Budge Budge-Narayanganj | 884 | ... | 4128 | 19337 | Flyash |
| 2 | Budge Budge-Khulna | 497 | ... | 1640 | ... | Flyash |
| 3 | IWAI Haldia Jetty-Narayanganj | 826 | ... | 768 | ... | Flyash |
| 4 | Sri Ram Jetty-Mongla | 505 | ... | 648 | ... | Flyash |
| 5 | Sri Ram Jetty-Khulna | 518 | ... | 602 | ... | Flyash |
| 6 | Budge Budge-Karimganj | 1332 | ... | 494 | ... | Flyash |
| 7 | Kolkatta-Narayanganj | 894 | 15428 | ... | ... | Flyash |
| 8 | IWAI BISN Jetty-Karimganj | 1357 | ... | 580 | ... | Flyash |
| 9 | IWAI BISN Jetty-Narayanganj | 909 | 1909 | 2468 | 6147 | Flyash |
| 10 | T.T. Shed - Narayanganj | 910 | - | - | 834 | Flyash |
| 22 | Ajbela Navigation | | | | | |
| 1 | Kolkatta-Narayanganj | 894 | 12307 | ... | ... | Flyash |
| 2 | Sri Ram Jetty-Khulna | 518 | ... | 1850 | ... | Flyash |
| 3 | Sri Ram Jetty-Narayanganj | 905 | ... | 8841 | 15712 | Flyash |
| 4 | Kolkatta-Khulna | 507 | 3472 | ... | ... | Flyash |
| 5 | K.P.Dock-Khulna | 523 | ... | 6714 | ... | Wheat |
| 6 | T.T.Shed-Narayanganj | 910 | ... | 4226 | 5752 | Flyash |
| 7 | T.T.Shed-Khulna | 523 | ... | 1497 | ... | Wheat |
| 8 | Kolkatta (S R Jetty)-Narayanganj | 897 | 1186 | ... | ... | Flyash |
| 9 | Kolkatta BISN Jetty-Narayanganj | 895 | 701 | ... | ... | Flyash |

Table No. 2.2**Details of Cargo Moved on National Waterways (National Waterway No.I) - THE GANGA**

(In tonnes)

| Sl. No. | River/Stretch | Approximate Distance (Kms) | 2011-12 | 2012-13 | 2013-14 | Cargo generally moved |
|-----------|--|----------------------------|---------|---------|---------|-------------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 10 | Budge Budge-Narayanganj | 884 | ... | 19712 | 11268 | Flyash |
| 11 | Budge Budge-Khulna | 497 | ... | 591 | ... | Flyash |
| 12 | IWAI Haldia Jetty-Mongla | 426 | ... | 1250 | ... | Flyash |
| 13 | IWAI Haldia Jetty-Khulna | 439 | 842 | 2726 | ... | Flyash |
| 14 | IWAI Haldia Jetty-Narayanganj | 836 | 7948 | ... | 3456 | Flyash |
| 15 | IWAI BISN Jetty - Narayanganj | 909 | - | - | 703 | Flyash |
| 23 | Marshal Corporation Ltd. | | | | | |
| 1 | BISN Jetty-Karimganj | 1367 | 569 | ... | ... | Flyash |
| 2 | Karimganj Assam-IWAI Bisn Jetty | 1367 | 300 | ... | ... | Coal |
| 24 | Spring Professional Services Pvt. Ltd | | | | | |
| 1 | T.T.Shed, Kolkatta-Ashuganj | 1048 | 306 | ... | ... | Galvanised Steel Plain Sheet |
| 25 | Reach Asia | | | | | |
| 1 | Kolkatta-Jogighopa, Assam | 1392 | ... | 372 | ... | ODC Cargo |
| 2 | Haldia-Balia | 1028 | 629 | ... | ... | ODC Cargo |
| 26 | Netincon Marketing Pvt. Ltd. | | | | | |
| 1 | K.P.Dock-Khulna | 510 | ... | 2600 | ... | Wheat |
| 27 | Duttson | | | | | |
| 1 | T.T.Shed-Narayanganj | 910 | ... | 3847 | ... | Flyash |
| 2 | IWAI BISN Jetty-Narayanganj | 909 | ... | 738 | 7917 | Flyash |
| 3 | Budge Budge-Narayanganj | 884 | ... | 2181 | 9659 | Flyash |
| 4 | IWAI Haldia Jetty - Mongla | 426 | - | - | 740 | Flyash |
| 5 | IWAI Haldia Jetty - Narayanganj | 826 | - | - | 10942 | Flyash |
| 6 | IWAI Haldia Jetty - Khulna | 439 | - | - | 3721 | Flyash |
| 7 | IWAI BISN Jetty-Khulna | 522 | - | - | 2010 | Flyash |
| 8 | IWAI BISN Jetty-Karimganj | 1357 | - | - | 2337 | Flyash, Spare parts |
| 9 | Budge Budge-Karimganj | 1332 | - | - | 507 | Flyash |
| 10 | Karimganj(Badarpur) - Narayanganj | 478 | - | - | 1200 | Cement Clinker |
| 28 | J.D.Shipping | | | | | |
| 1 | Budge Budge-Narayanganj | 884 | ... | 2854 | 6550 | Flyash |
| 2 | Sri Ram Jetty(Kol) - Narayanganj | 905 | - | - | 3828 | Flyash |
| 3 | Sri Ram Jetty(Kol) - Khulna | 518 | - | - | 512 | Flyash |
| 4 | Sri Ram Jetty(Kol) - Mongla | 505 | - | - | 642 | Flyash |
| 5 | IWAI Haldia Jetty - Narayanganj | 826 | - | - | 996 | Flyash |
| 6 | KP Dock - Mongla | 510 | - | - | 931 | Steel plate, beams, columns, angels |
| 7 | KP Dock - Narayanganj | 910 | - | - | 2221 | Machinery |

Table No. 2.2**Details of Cargo Moved on National Waterways (National Waterway No.I) - THE GANGA**

(In tonnes)

| Sl. No. | River/Stretch | Approximate Distance (Kms) | 2011-12 | 2012-13 | 2013-14 | Cargo generally moved |
|-----------|---|----------------------------|---------|---------|---------|-------------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 29 | Ganga Water Transport | | | | | |
| 1 | K.P.Dock-Mongla | 510 | ... | 2700 | ... | Wheat |
| 2 | K.P.Dock-Narayanganj | 910 | ... | 510 | 2733 | Non Alloyed Hot Rolled Steel Coil |
| 3 | Budge Budge - Khulna | 497 | ... | ... | 683 | Flyash |
| 30 | Bertling Logistic India Pvt.Ltd. | | | | | |
| 1 | Haldia-Balia | 1028 | ... | 337 | ... | ODC Cargo |
| 31 | Venketesh Logistics | | | | | |
| 1 | Haldia-Bhaktiyarpur | 885 | ... | 310 | ... | ODC Cargo |
| 32 | All Cargo Logistics Ltd. | | | | | |
| 1 | Haldia-Zamania | 1170 | ... | 1150 | ... | ODC Cargo |
| 2 | Haldia - Biswanath Chareli, Assam(NW2) | 1730 | - | - | 2223 | ODC Cargo |
| 33 | Prism Logistics Pvt.Ltd. | | | | | |
| 1 | Haldia-Allahabad | 1512 | ... | 762 | 599 | ODC Cargo |
| 34 | Safehand Logistics | | | | | |
| 1 | IWAI BISN Jetty - Karimganj (Badarpur) | 1357 | - | - | 1150 | Flyash |
| 2 | Budge Budge - Narayanganj | 884 | - | - | 1753 | Flyash |
| 3 | IWAI Haldia Jetty - Narayanganj | 826 | - | - | 582 | Flyash |
| 35 | Shun Shing India Private Ltd. | | | | | |
| 1 | Budge Budge - Narayanganj | 884 | - | - | 15604 | Flyash |
| 36 | Jindal ITF Ltd. | | | | | |
| 1 | Sagar - Farakkar | 540 | - | - | 197456 | Coal |
| 37 | AFS Logistics Pvt. Ltd. | | | | | |
| 1 | AWAI Haldia Jetty - Fatuha | 910 | - | - | 1400 | Fertilizers |
| 2 | Fatuha - Kolkatta | 805 | - | - | 1400 | Fertilizers |
| 38 | Lee & Muirhead Pvt. Ltd. | | | | | |
| 1 | Haldia - Sirsa | 1471 | - | - | 343 | ODC Cargo |
| 39 | Boxco India Pvt. Ltd. | | | | | |
| 1 | Haldia - Geonkhali | 43 | - | - | 642 | ODC Cargo |
| 40 | KOPT | | | | | |
| 1 | Kolkatta-Sandheads | 232 | 4975 | ... | ... | Iron Ore |
| 2 | Kolkatta-Sagar | 146 | 627174 | 115000 | 85000 | Iron Ore, Iron & Steel ,Other/Misc. |
| 3 | Kolkatta-Diamond Harbour | 78 | 408749 | ... | ... | |
| 4 | DH-KPD | 78 | 69873 | ... | ... | |

**Table No. 2.2
(Contd...)**

Details of Cargo Moved on National Waterways (National Waterway No.I) - THE GANGA

(In tonnes)

| Sl. No. | River/Stretch | Approximate Distance (Kms) | 2011-12 | 2012-13 | 2013-14 | Cargo generally moved |
|-------------------------------|--------------------------|----------------------------|----------------|----------------|----------------|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 5 | Sagar-Kolkatta | 146 | ... | 496000 | 764000 | Iron |
| 6 | Kolkatta-Diamond Harbour | | | 2000 | ... | |
| 7 | Haldia-Sagar | 39 | 330064 | ... | ... | Iron Ore, Sugar, Pet Cock, Pulses, Cokjing, Fertilizer, |
| 8 | Diamond Harbour-Kolkatta | 78 | | 122000 | 176000 | Limestone, Cooking oil |
| 9 | Haldia-BB | 78 | 10175 | ... | ... | |
| 10 | Budge Budge-Internal | 5 | 72 | ... | ... | |
| 11 | Kolkatta-Budge Budge | 21 | 51 | ... | ... | |
| 12 | KPD-Budge Budge | 21 | 45 | ... | ... | |
| Sub Total (C) | | - | 2994556 | 2431380 | 3118793 | |
| D | IWAI Vessels | | | | | |
| 1 | Rajmahal-Kolkata | | ... | ... | ... | China Clay, SilicaSand |
| 2 | Rajmahal -Patna | | ... | 300 | ... | Cement |
| 3 | Haldia-Karimganj | | ... | ... | ... | Bitumin, Edible-Oi |
| 4 | Kolkatta-Pandu | | ... | ... | ... | TT Shed |
| 5 | Pandu-Kolkatta | | ... | ... | ... | Jute Bales |
| 6 | Samdighatj-Manihari | | ... | 15216 | 8832 | Stone chips |
| 7 | Haldia_Pandu | | ... | ... | ... | Edibleoil |
| 8 | Samdaghath-Patna | | 300 | 900 | 1200 | Stonechips |
| 9 | Samdaghath-Doriganj | | 1120 | ... | ... | Stonechips |
| 10 | Chunar-Balia | | 574 | ... | ... | Cement |
| 11 | Samdaghath-Munger | | 300 | ... | ... | Stonechips |
| Sub Total (D) | | - | 2294 | 16416 | 10032 | |
| Total (NW-I) (A+B+C+D) | | | 3310047 | 2716437 | 3349138 | |

**Table No. 2.2
(Contd...)**

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

(In tonnes)

| Sl. No. | River/Stretch | Approximate Distance (Kms) | 2011-12 | 2012-13 | 2013-14 | Cargo generally moved |
|-----------------------------|--------------------|----------------------------|----------------|----------------|----------------|--|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| A | Organised Cargo | | ... | 396 | ... | |
| B | IWTD Assam* | | 1982360 | 1965239 | 1981935 | Goods |
| C | Unorganised Sector | | 424088 | 461170 | 493414 | Goods, Passengers,Bicycle, M.Cycle,Animals |
| Sub Total (A+B+C) | | | 2406448 | 2426805 | 2475349 | |
| Total (NW-II)(A+B+C) | | | 2406448 | 2426805 | 2475349 | |

*: Provisional data subject to receipt of final report from IWTD, Govt. of Assam, Data extrapolated considering

**Table No. 2.2
(Contd...)**

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

(In tonnes)

| Sl. No. | River/Stretch | Approximate Distance (Kms) | 2011-12 | 2012-13 | 2013-14 | Cargo generally moved |
|-----------------------------|---|----------------------------|---------------|---------------|---------------|--|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| A. CHAMPAKARA CANAL | | | | | | |
| 1 | KSINC | | | | | |
| | Cochin Port-FACT-CD | 21.5 | 107122 | 3444 | 124954 | raw Sulphur, Rock Phosphate & Phosphoric Acid etc.. |
| | Q10 Berth-CPT-Fact, CD | 21 | ... | 157186 | ... | Sulphur,Rock |
| | BPCL Irumbanam-Ship Bunkring | 16 | 1011 | ... | ... | Phosphate,Phosphoric Acid Furnace Oil |
| 2 | LOTS Shipping & Trading | | | | | |
| | Cochin Port-FACT-CD | 21.5 | 41144 | ... | 158509 | Raw Sulphur, Rock Phosphate & Phosphoric Acid & Stone aggregates |
| | Q10 Berth-CPT-Fact, CD | 21 | 122077 | 184393 | ... | Phosphoric Acid,Sulphur,Rock |
| | ICTT-Cochin Shipyard | 5 | 6 | - | - | Phosphate Container no. 1 |
| | BPCL Irumbanam-Fact, PD (dist.in Ch. Canal) | 16.5 | 4478 | 23835 | ... | Furnace Oil |
| | DP World-Cochin Shipyard | 5 | 1 | ... | ... | 20 ft Container-1 no. |
| | Vallarpadam-Cochin Shipyard | 5 | 2 | ... | ... | Container no. 1 |
| | Q5 berth-Cochin Shipyard | 3 | 1 | ... | ... | 20 ft Container-1 no. |
| 3 | Kerala Backwater Navigation | | | | | |
| | Cochin Port FACT CD | 21.5 | 20041 | ... | 23786 | Rock Phosphate, Sulphur |
| Sub Total | | | 295883 | 368858 | 307249 | |
| B. UDYOGMANDAL CANAL | | | | | | |
| 1 | LOTS Shipping & Trading* | | | | | |
| | Cochin Port FACT-UD | 20 | 35243 | ... | 50774 | Zibframe, Sulphur, Furnance oil, Zinc |
| | BPCL/IOC FACT PD | 14 | 9843 | ... | ... | Stone aggregate, Furnance oil |
| | Alwa MULAVUKADUD | 10 | ... | ... | ... | Aggregate |
| | BPCL FACT UD | 20 | 8575 | ... | ... | Phosphoric Acid, Furnance Oil |
| | Alwa-Pizhala, UD | 10 | ... | ... | ... | Aggregate |
| | BPCL Irumbanam- FACT PD | 11 | ... | 23835 | ... | Furnance Oil |
| | BPCL Irumbanam- FACT UD | 17 | ... | ... | ... | Furnance Oil |
| | Bolgaty-W.Island | 3.7 | ... | ... | ... | Various Commodity |
| | Q10 CPT-Fact, UD | 20 | 56554 | 46543 | ... | Phosphoric Acid, Sulphur |
| | Q6 Berth CPT-Binani Zinc Ltd. | 22 | ... | 72163 | ... | Zinc. |
| | Q5 Berth CPT-Binani Zinc Ltd. | 22 | 9707 | ... | 28542 | Zinc. |
| | Q1 Berth CPT-Binani Zinc Ltd. | 25 | 3827 | ... | ... | Zinc. |

**Table No. 2.2
(Contd...)**

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

(In tonnes)

| Sl. No. | River/Stretch | Approximate Distance (Kms) | 2011-12 | 2012-13 | 2013-14 | Cargo generally moved |
|---------|--|----------------------------|---------------|---------------|---------------|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| | BPCL Fine Art Jetty-DP World | 4 | 598 | ... | ... | Furnace Oil |
| | Irumbanam-Fact PD(Dist. In UDL. Canal) | 11 | 9818 | ... | ... | Furnace Oil |
| | IOC-Fact, PD | 20/17 | 1344 | 36732 | ... | Furnace Oil |
| | South Coal Berth-Q10 Berth CPT | 6 | 634 | ... | ... | Furnace Oil |
| | South Coal Berth-Quater Roads | 3/2 | 8343 | 110 | ... | Furnace Oil |
| | SCB-ICTT | 4 | 1780 | ... | ... | Furnace Oil |
| | South Coal Berth-Vallarpaban | 4 | ... | 2150 | ... | Furnace Oil |
| | South Coal Berth-Ship Side | 4 | 1692 | ... | ... | Furnace Oil |
| | IOC (near BTO berth)-Fact, UD | 27 | 5135 | ... | ... | Furnace Oil |
| | IOC (near BTO berth)-Fact, PD | 17 | 17200 | ... | ... | Furnace Oil |
| | BPCL fine art Jetty-Fact, PD | 14 | 13916 | ... | ... | Furnace Oil |
| | Willinbgdon island- Bolgaty-Bolgary Williangdon Island | 3.7 | 667086 | 523480 | 598190 | commodities in container |
| | Cochin Port-BPCL, Matrix Bharat | 1 | 939 | ... | ... | Furnace Oil Bunkering |
| | Cochin Port-Matrix Bharat | 5 | 1060 | ... | ... | Furnace Oil Bunkering |
| | BPCL-Vllarapadam | 2 | 149 | ... | ... | Furnace Oil Bunkering |
| 2 | KSINC* | | | | | |
| | Cochin Port-FACT UD | 21 | 7653 | ... | 23779 | Rock Phosphate , Sulphur, Phosphoric Acid |
| | Q10 Berth, CPT-Fact UD | 20 | 289 | 3542 | ... | Phosphoric Acid, |
| 3 | Kerala Back Water Navigation | | | | | |
| | Fact Willingdon Island Fact UD | 20 | ... | ... | ... | Sulphur. Phosphoric Acid |
| | Fact ,CD - FACT, PD | 14.5 | ... | ... | 5954 | Lag |
| 4 | Logos Agencies | | | | | |
| | Aluva Terminal-Sea | 23.5 | 1969 | 2726 | 2491 | Liquid Effluent |
| 5 | Amrok Industrial & Investments | | | | | |
| | Aluva Terminal-Sea | 23.5 | ... | 74 | ... | Liquid Effluent |
| 6 | Cochin Bunkers | | | | | |
| | BPCL, Irumbanam - Fact PD | 27.5 | ... | ... | 7113 | Furnance oil |
| | IOC(BPT berth) - Fact PD | 17 | ... | ... | 15344 | Furnance oil |
| | Sub Total | | 863354 | 711355 | 732187 | |

**Table No. 2.2
(Contd...)**

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

(In tonnes)

| Sl. No. | River/Stretch | Approximate Distance (Kms) | 2011-12 | 2012-13 | 2013-14 | Cargo generally moved |
|--|--------------------------------|----------------------------|----------------|----------------|----------------|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| C. THE WEST COASTAL CANAL | | | | | | |
| 1 | KSINC Ltd*. | | | | | |
| | Fine Arts Jetty- Vypeen | 4 | 131720 | 141000 | 18000 | Potable water |
| | ErnaKulum terminal-Cochin port | 5 | 31963 | | | POL(Bunkering to Ship) |
| | Ernakulum Vypeen Island | 4 | ... | ... | ... | Potable water |
| | Cochin port Ships | 5 | .... | .... | .... | POL |
| 2 | Travancore Cements Ltd. | | | | | |
| | Vaikom- Chitramangalam | 20 | 20850 | 15190 | 8570 | Lime shell with clay & other impurities |
| | Kayamkulam-Chavra | 17 | ... | ... | ... | Sand |
| Sub Total | | | 184533 | 156190 | 26570 | |
| Total (NW-III) (A+B+C) | | | 1343770 | 1236403 | 1066006 | Tank |
| Total Cargo Moved on National Waterways (NW-I+NW-II+NW-III) | | | | | | |
| GRAND TOTAL (NW-I+NW-II+NW-III) | | | 7060265 | 6379645 | 6890493 | |

Source : Inland Waterways Authority of India / CIWTC

... : Not available.

SECTION – 3

**COMMODITY-WISE ROUTE-WISE
CARGO CARRIED, FREIGHT
EARNED, INCOME &
EXPENDITURE OF CIWTC**

Table No. 3.1**Traffic and Freight Earnings of Central Inland Water Transport Corporation (CIWTC)**

| Period | Traffic carried (000 tonnes) | Tonne Km Performed (Lakh) | Total Earnings (Rs.Lakh) |
|---------|---------------------------------|------------------------------|-----------------------------|
| 1 | 2 | 3 | 4 |
| 1981-82 | 75 | 780 | 163 |
| 1982-83 | 122 | 813 | 135 |
| 1983-84 | 201 | 928 | 210 |
| 1984-85 | 255 | 1184 | 372 |
| 1985-86 | 304 | 1621 | 501 |
| 1986-87 | 321 | 1566 | 581 |
| 1987-88 | 288 | 1434 | 452 |
| 1988-89 | 304 | 1415 | 485 |
| 1989-90 | 410 | 1163 | 566 |
| 1990-91 | 385 | 1197 | 581 |
| 1991-92 | 289 | 639 | 427 |
| 1992-93 | 312 | 1111 | 640 |
| 1993-94 | 242 | 1033 | 552 |
| 1994-95 | 331 | 968 | 781 |
| 1995-96 | 325 | 994 | 837 |
| 1996-97 | 188 | 677 | 718 |
| 1997-98 | 243 | 524 | 802 |
| 1998-99 | 141 | 311 | 815 |
| 1999-00 | 251 | 525 | 1202 |
| 2000-01 | 106 | 283 | 641 |
| 2001-02 | 68 | 269 | 462 |
| 2002-03 | 86 | 392 | 560 |
| 2003-04 | 66 | 315 | 497 |
| 2004-05 | 54 | 242 | 479 |
| 2005-06 | 85 | 143 | 489 |
| 2006-07 | 220 | 257 | 578 |
| 2007-08 | 200 | 238 | 405 |
| 2008-09 | 74 | 110 | 409 |
| 2009-10 | 189 | 165 | 434 |
| 2010-11 | 49 | 44 | 260 |
| 2011-12 | 31 | 26 | 168 |
| 2012-13 | 21 | 2 | 153 |
| 2013-14 | 8 | 0.15 | 175 |

Source : CIWTC, 2013-14

Note : Total freight earned includes towing /hire/detention charges/
additional freight/godown rent/misc. charges etc. as detailed in Table 3.3.

Table No. 3.2**Cargo Carried And Freight Earned by CIWTC-Commodity-wise**

| Sl. No. | Commodity | 2011-12 | | 2012-13 | | 2013-14 | |
|--|----------------------------|----------------|---------------------------|----------------|---------------------------|----------------|---------------------------|
| | | Tonnes Carried | Freight Earned (Rs. Lakh) | Tonnes Carried | Freight Earned (Rs. Lakh) | Tonnes Carried | Freight Earned (Rs. Lakh) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1 | Fly Ash | - | - | - | - | - | - |
| 2 | Pol | - | - | - | - | - | - |
| 3 | Cut Bamboo | - | - | - | - | - | - |
| 4 | Sand Clips | 8250 | 1.81 | 19800 | 4.32 | 8250 | 1.80 |
| 5 | Slag | - | - | - | - | - | - |
| 6 | Waste Oil | 4400 | 10.03 | - | - | - | - |
| 7 | Aluminium Block | 200 | 1.00 | - | - | - | - |
| 8 | Boulder | 1650 | 0.33 | - | - | - | - |
| 9 | Cement/W.Cement | - | - | - | - | - | - |
| 10 | Cement Clinkers | - | - | - | - | - | - |
| 11 | Peas | 15000 | 15.15 | 1500 | 3.00 | - | - |
| 12 | Pet Cake/Personal Effect | - | - | - | - | - | - |
| 13 | ODC | 243 | 7.61 | - | 10.98 | - | - |
| 14 | Stone Clips | 1500 | 7.55 | - | - | - | - |
| 15 | Misc. | - | - | - | - | - | - |
| SUB TOTAL | | 31243 | 43.48* | 21300 | 18.30* | 8250 | 1.80 |
| * this relates to commodity-wise earnings | | | | | | | |
| The Non Commodity Earnings are as under : | | | | | | | |
| Activity | | | | | | | |
| | Vessel hire, Godown | - | 124.86 | - | 135.42 | - | 172.83 |
| | Rent, Storage ,Towage etc. | - | - | - | - | - | - |
| SUB TOTAL | | - | 124.86 | - | 135.42 | - | 172.83 |
| GRAND TOTAL | | 31243 | 168.34 | 21300 | 153.72 | 8250 | 174.63 |

Note :The figures are compiled on the basis of the monthly data received from CIWTC.

Table No. 3.3 Commodity-wise, Route-wise Cargo Carried, Freight Earned and Tonne Kms. Performed by CIWTC - 2011-12 to 2013-14

| Sl. No. | Route | Distance (in Kms) | Commodity | Tonnes Carried | | | Freight Earned(Rs.in Lakh) | | | Tonne/Kms(in Lakh) Performed | | |
|---------|-----------------------|-------------------|---------------|----------------|-------------|----------|----------------------------|--------------|----------|------------------------------|-------------|----------|
| | | | | 2011-12 | 2012-13 | 2013-14 | 2011-12 | 2012-13 | 2013-14 | 2011-12 | 2012-13 | 2013-14 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 1 | Haldia-Budge-Budge | | Waste Oil Pol | 4400 | - | - | 10.03 | - | - | 3.27 | - | - |
| | | | | - | - | - | - | - | - | - | - | - |
| | Haldia-Budge-2 | | TOTAL | 4400 | - | - | 10.03 | - | - | 3.27 | - | - |
| 2 | Haldia-Ghormalsland | 415 | Boulders | 1650 | - | - | 0.33 | - | - | 0.25 | - | - |
| | | 1060 | | | | | | | | | | |
| | | | TOTAL | 1650 | - | - | 0.33 | - | - | 0.25 | - | - |
| 3 | Haldia-Internal | 02 | Sand Clips | 8250 | 1650 | - | 1.81 | 0.36 | - | 0.15 | 0.03 | - |
| | | | TOTAL | 8250 | 1650 | - | 1.81 | 0.36 | - | 0.15 | 0.03 | - |
| 4 | Patna-Kolkata | 530 | Stone Chips | 1500 | - | - | 7.55 | - | - | 7.95 | - | - |
| | | | TOTAL | 1500 | - | - | 7.55 | - | - | 7.95 | - | - |
| 5 | Haldia-Jamuraia (UP) | 1096 | ODC | 208 | - | - | 6.51 | 10.98 | - | 2.28 | - | - |
| | | | TOTAL | 208 | - | - | 6.51 | 10.98 | - | 2.28 | - | - |

Table No. 3.3 (Contd..)

Commodity-wise, Route-wise Cargo Carried, Freight Earned and Tonne Kms. Performed by CIWTC - 2011-12 to 2013-14

| Sl. No. | Route | Distance (in Kms) | Commodity | Tonnes Carried | | | Freight Earned(Rs.in Lakh) | | | Tonne/Kms(in Lakh) Performed | | |
|---------|---------------------|-------------------|--------------------|----------------|--------------|-------------|----------------------------|---------------|---------------|------------------------------|-------------|-------------|
| | | | | 2011-12 | 2012-13 | 2013-14 | 2011-12 | 2012-13 | 2013-14 | 2011-12 | 2012-13 | 2013-14 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 6 | Lighterage | 44-144 | Peas | 15000 | 1500 | - | 15.15 | 3.00 | - | 12.00 | 1.20 | - |
| | Operation at Saugar | | Logs | - | - | - | - | - | - | - | - | - |
| | /Haldia Diamond | | Containers | - | - | - | - | - | - | - | - | - |
| | Harbour-Kolkata | | Fertilizer | - | - | - | - | - | - | - | - | - |
| | Kolkata-Internal | | ODC | 35 | - | - | 1.10 | - | - | 0.02 | - | - |
| | | | Sand- Clips | - | 18150 | 8250 | - | 3.96 | 1.80 | - | 0.33 | 0.15 |
| | | | A.Block | 200 | - | - | 1.00 | - | - | 0.01 | - | - |
| | | | TOTAL | 15235 | 19650 | 8250 | 17.25 | 6.96 | 1.80 | 12.03 | 1.53 | 0.15 |
| 7 | Misc. | | | | | | | | | | | |
| | Tug Hire and | | | | | | | | | | | |
| | Godown Rent | | | - | - | - | 124.86 | 135.42 | 172.83 | - | - | - |
| | | | Grand Total | 31243 | 21300 | 8250 | 168.34 | 153.72 | 174.63 | 25.93 | 1.56 | 0.15 |

Note : The figures are compiled on the basis of the monthly data received from CIWTC.

Table No. 3.4**Income And Expenditure Of C.I.W.T.C.
(For The Year Ending 31st March)****(Rs. lakhs)**

| Sl.No. | Item | 2012 | 2013* | 2014# |
|---------------|---------------------------------------|-------------|--------------|--------------|
| 1 | 2 | 3 | 4 | 5 |
| A. | INCOME | 2059.42 | 1874.31 | 16274.00 |
| (i) | Earnings (Operational) | 130.54 | 153.73 | 129.00 |
| (ii) | Earnings (Others) | 1928.88 | 1720.58 | 16145.00 |
| B | EXPENDITURE | 3368.18 | 4266.89 | 1654.00 |
| (i) | Materials & Stores Consumed | 32.86 | 62.25 | 68.00 |
| (ii) | Decrease/Increase in Work in Progress | -37.85 | -2.56 | - |
| (iii) | Employees Remuneration & Benefits | 872.82 | 861.66 | 904.00 |
| (iv) | Repairs & Maintenance | 49.92 | 3.70 | 6.00 |
| (v) | Power & Fuel | 45.61 | 32.09 | 34.00 |
| (vi) | Other Expenses | 305.43 | 264.06 | 330.00 |
| (vii) | Interest | 1626.93 | 253.75 | - |
| (viii) | Depreciation | 332.83 | 313.87 | 312.00 |
| (ix) | Provisions | 139.63 | 2478.07 | - |
| C | Profit/Loss (A-B) | -1308.76 | -2392.58 | 14620.00 |

Source : CIWTC

* Revised Figures # Unaudited

Note: Provision includes Income Tax adjustment and sale of vessels.

Table No. 3.5**Source-wise Earning of CIWTC**

(Rs. in lakhs)

| Sl.No. | Name of Service | Year | | |
|------------------------------------|--------------------------------|----------------|----------------|-----------------|
| | | 2011-12 | 2012-13 * | 2013-14 # |
| 1 | 2 | 3 | 4 | 5 |
| A.Earnings (Operational) | | | | |
| Transportation & Allied | | | | |
| Activities: | | | | |
| | Freight | 42.48 | 16.05 | 1.80 |
| | Dredging | - | - | - |
| | Ferries & Charter | 88.06 | 137.68 | 127.20 |
| | Sales pending finalisation | - | | |
| | TOTAL (A) | 130.54 | 153.73 | 129.00 |
| B.Earnings (Others) | | | | |
| | Investment/one time grant | - | - | - |
| | Interest on Short Term Deposit | 1019.05 | 851.73 | 273.66 |
| | Interest on: | | | |
| | Mobilisation Amount | - | - | - |
| | Sunderban Conservancy Amount | - | - | - |
| | Port Maintenance | - | - | - |
| | Sale of Scrap | - | - | - |
| | Rent | 31.41 | 2.79 | 1.39 |
| | Surplus on sale of assets | | | |
| | Retired from Operation | - | - | - |
| | Miscellaneous Receipts | 5.60 | 4.40 | 1.77 |
| | Govt. Grant (Salary & Wages) | 872.82 | 861.66 | 15868.18 |
| | Profit on exchange | | | |
| | TOTAL B | 1928.88 | 1720.58 | 16145.00 |
| | TOTAL (A+B) | 2059.42 | 1874.31 | 16274.00 |

Unaudited

* Revised Figures

Table No. 3.6**Financial Position of CIWTC**

(Rs. in Lakh)

| SL. No. | Item | | | |
|---------|--|--------------------|--------------------|-------------------|
| | | 2011-12* | 2012-13* | 2013-14# |
| 1 | 2 | 3 | 4 | 5 |
| A. | LIABILITIES | | | |
| | (a) Paid up capital | 13048.48 | 13048.48 | 13048.48 |
| | (b) Reserves & Surplus(Capital Reserve) | 10909.93 | 10909.93 | 10909.93 |
| | (c) Accumulated Loss | -28559.33 | -30951.91 | -16377.00 |
| | (d) Borrowings | | | |
| | i) From Govt. of India | - | - | - |
| | ii) From Others | - | - | - |
| | (e) Trade dues and other current liabilities (including provisions) and interest accrued thereon | 21914.82 | 15738.66 | 4318.59 |
| | TOTAL (A) | 17313.90 | 8745.16 | 11900.00 |
| B. | ASSETS | | | |
| | (f) Gross Asset | 11119.36 | 11012.02 | 11012.02 |
| | (g) Less Depreciation | 7837.87 | 8049.29 | 8358.02 |
| | (h) Less Provision | - | - | - |
| | (i) Net Fixed Assets (f-g-h) | 3281.49 | 2962.73 | 2654.00 |
| | (j) Capital work in progress | 37.85 | 40.42 | 40.00 |
| | (k) Investment | - | - | - |
| | (l) Current Assets, Loans and Advances | 13994.56 | 5742.01 | 9206.00 |
| | (m) Miscellaneous expences and losses not written off | - | - | - |
| | TOTAL (B) | 17313.90 | 8745.16 | 11900.00 |
| C. | Working Capital (l-e) | -7920.26 | -9996.65 | 4887.41 |
| | (o) Additional provision for Gratuity | 571.69 | 594.73 | 612.17 |
| | (p) Total Working Capital | -7348.57 | -9401.92 | 4275.24 |
| | Capital employed (i+p) | -4067.08 | -6439.19 | 6929.24 |
| | Net worth (a-(c+m)) for F.Y.2012-2013 | (-)15510.85 | (-)17903.43 | (-)3328.52 |

Source: CIWTC

Unaudited

* Revised

SECTION – 4

**IWT ACTIVITIES –
STATE-WISE**

Table No. 4.1 Number of IWT Vessels With Valid Certificate of Survey...By Type (As on 31st March)

| Sl. No. | State/ UT/Year | Self Propelled | | | | | Non-Self Propelled | | | | | | Grand Total |
|-----------|-----------------------|----------------|-----------|---------------------|------------------|--------------------|--------------------|--------------|-----------|-------|--------|---------------------|-------------|
| | | Cargo | Passenger | Cargo cum Passenger | Tugs and Pushers | Total (Col.3 to 6) | Dumb Barges | Dumb Tankers | Dumb Flat | Boats | Others | Total (Col.8 to 12) | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 1 | Andhra Pradesh | | | | | | | | | | | | |
| | 2012 | ... | ... | 43 | ... | 43 | ... | ... | ... | 17 | 51 | 68 | 111 |
| | 2013 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | 2014 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 2 | Assam | | | | | | | | | | | | |
| | 2012 | ... | 120 | 10 | 6 | 136 | 15 | ... | ... | 13 | 45 | 73 | 209 |
| | 2013 | 1 | 1 | ... | 4 | 6 | 7 | ... | 9 | ... | .. | 16 | 22 |
| | 2014 | 15 | 114 | 23 | 6 | 158 | 15 | ... | ... | ... | .. | 15 | 173 |
| 3 | Bihar | | | | | | | | | | | | |
| | 2012 | 1 | 19* | 74* | 6 | 100 | 5 | ... | ... | 9 | 24 | 38 | 138 |
| | 2013 | 1 | 19* | 74* | 6 | 100 | 5 | ... | ... | 9 | 24 | 38 | 138 |
| | 2014 | 1 | 19* | 74* | 6 | 100 | 5 | ... | ... | 9 | 24 | 38 | 138 |
| 4 | Goa | | | | | | | | | | | | |
| | 2012 | 172 | .. | ... | ... | 172 | ... | ... | ... | ... | ... | ... | 172 |
| | 2013 | 264 | 45 | ... | 2 | 311 | 2 | ... | ... | ... | ... | 2 | 313 |
| | 2014 | 81@ | 38 | ... | 2 | 121 | 2 | ... | ... | ... | 36 | 38 | 159 |
| 5 | Karnataka | | | | | | | | | | | | |
| | 2012 | ... | 109 | 66 | ... | 175 | ... | ... | ... | 298 | ... | 298 | 473 |
| | 2013 | ... | 61 | 5 | ... | 66 | ... | ... | ... | .. | ... | .. | 66 |
| | 2014 | ... | 61 | 5 | ... | 66 | ... | ... | ... | .. | ... | .. | 66 |
| 6 | Kerala | | | | | | | | | | | | |
| | \$2012 | 71 | 140 | 44 | 10 | 265 | ... | ... | ... | 5248 | ... | 5248 | 5513 |
| | 2013 | 153 | 200 | 69 | 10 | 432 | ... | ... | ... | 4665 | 8724 | 13389 | 13821 |
| | 2014 | 134 | 143 | 55 | 5 | 337 | ... | ... | ... | 4413 | 8939 | 13352 | 13689 |
| 7 | Maharashtra | | | | | | | | | | | | |
| | 2012 | ... | 233 | ... | 370 | 603 | ... | ... | ... | ... | ... | ... | 603 |
| | 2013 | ... | 201 | ... | 376 | 577 | ... | ... | ... | ... | ... | ... | 577 |
| | 2014 | ... | 250 | ... | 338 | 588 | ... | ... | ... | ... | ... | ... | 588 |
| 8 | Orissa | | | | | | | | | | | | |
| | 2012 | ... | 279 | ... | ... | 279 | ... | ... | ... | ... | ... | ... | 279 |
| | 2013 | ... | 342 | ... | ... | 342 | ... | ... | ... | ... | ... | ... | 342 |
| | 2014 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 9 | West Bengal | | | | | | | | | | | | |
| | 2012 | 85 | 263 | 5 | 73(A) | 426 | 659 | ... | ... | 1550 | ... | 2209 | 2635 |
| | 2013 | 94 | 227 | 6 | 69(A) | 396 | 690 | ... | ... | 1537 | ... | 2227 | 2623 |
| | 2014 | 57 | 219 | 3 | 29 | 308 | 51 | 3 | 3 | 1646 | 31 | 1734 | 2042 |
| 10 | Tamil Nadu | | | | | | | | | | | | |
| | 2012 | ... | ... | ... | ... | ... | ... | ... | ... | 2 | ... | 2 | 2 |
| | 2013 | ... | ... | ... | ... | ... | ... | ... | ... | 2 | ... | 2 | 2 |
| | 2014 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |

(A) Includes 42 and 29 other vessels for 2012 and 2013 respectively. ... Not available/Nil

\$: From 2011-12 onwards, unlicensed vessels and country boats have been excluded

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

@ vessel count reduced due to mining ban

Table No. 4.2

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

| Sl. No. | State/UT/Year | Powered Vessels Employed for cargo (Nos.) | Powered Vessels Employed for passengers (Nos.) | Quantity of cargo carried (000' tonnes) | Total No. of passengers carried (000) |
|---------|-----------------------|---|--|---|---------------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 1 | Andhra Pradesh | | | | |
| | 2012 | ... | ... | ... | ... |
| | 2013 | ... | ... | ... | ... |
| 2 | Assam | | | | |
| | 2012 | 66 | 66 | 37.72# | 11345.53 |
| | 2013 | 56 | 56 | 71.79@ | 7656.00 |
| 3 | Bihar | | | | |
| | 2012 | 1 | 83 | 2.40 | 578.00* |
| | 2013 | 1 | 83 | 2.40 | 578.00* |
| 4 | Goa(a) | | | | |
| | 2012 | 172 | - | 14469.90 | ... |
| | 2013 | 264 | 45 | 3275.82 | 14076.00 |
| 5 | Karnataka | | | | |
| | 2012 | 66 | 15 | 58.80** | 1648.70** |
| | 2013 | 66 | 66 | 78.40** | 1884.56** |
| 6 | Kerala | | | | |
| | 2012 | 77 | 644 | 5756.12 | 8410.69 |
| | 2013 | 66 | 632 | 5555.21 | 24752.82 |
| 7 | Maharashtra | | | | |
| | 2012 | ... | ... | 19950.00 | 17147.80 |
| | 2013 | ... | ... | 24196.00 | 17608.00 |
| 8 | Orissa | | | | |
| | 2012 | ... | 9 | ... | 126.00 |
| | 2013 | ... | 10 | ... | 124.00 |
| 9 | West Bengal | | | | |
| | 2012 | 61 | 263 | 9996.00(b) | 43832.00 |
| | 2013 | 76 | 227 | 10347.00(b) | 42976.00 |
| | 2014 | 57 | 219 | 11452.00 | 43619.00 |

(a) Excludes traffic reported by Mormugao Port for Iron Ore movement which is 29.00 million tonnes in 2011-12 & 7.40 million tonnes in 2012-13 & 0.31 million tonnes in 2013-14.

(b) No. of vehicles carried LCT 39618, 40807 and 39952 for the year 2010-11, 2011-12 & 2012-13 respectively.

578* based upon passengers travelling on unregistered vessels plying in various rivers.

... : Not Available

: in addition to cargo, LMV 51716 nos, Bicycle 209104 nos, Motor Cycles 125198 nos, and Animals 11300 nos for 2011-12

** : The traffic of passengers & cargo is only operation of Ferry Service across the river in rural area.

@ Cargo includes LMV's, Bicycles, Motor Cycles and Animals etc.

\$ No iron ore export due to mining ban.

SECTION – 5

**IWT ACTIVITIES – PRIVATE
COMPANIES/UNDERTAKINGS**

Table No. 5.1 IWT Vessels With Valid Certificates of Survey-Owned By Responding Private Companies/Undertakings By Type (As on 31st March)

| Sl. No. | Company/ Undertaking and Year | Self Propelled | | | | Non-Self Propelled (Dumb Barges) (No.) |
|---------|--|----------------|-----------------|-------------------|-------------------|--|
| | | Type of vessel | | Carrying capacity | | |
| | | Cargo (No.) | Passenger (No.) | Cargo(in Tonnes) | Passenger(in No.) | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1 | S.V.Salgaocar, Goa | | | | | |
| | 2012 | 3 | ... | 962 | ... | ... |
| | 2013 | 3 | ... | - | ... | ... |
| | 2014 | 3 | ... | ... | ... | ... |
| 2 | D.V.Salgaocar, Goa | | | | | |
| | 2012 | 3 | ... | 307 | ... | ... |
| | 2013 | 3 | ... | - | ... | ... |
| | 2014 | 3 | ... | ... | ... | ... |
| 3 | V.M.Salgaocar Sales International | | | | | |
| | 2012 | 2 | ... | 693 | ... | ... |
| | 2013 | 2 | ... | - | ... | ... |
| | 2014 | 2 | ... | ... | ... | ... |
| 4 | Sesa Resource Ltd Goa | | | | | |
| | 2012 | 3 | ... | 3237 | ... | ... |
| | 2013 | 3 | ... | 3237 | ... | ... |
| | 2014 | 3 | ... | 3237 | ... | ... |
| 5 | *Sesa Sterlite Ltd, Goa | | | | | |
| | 2012 | 32(a) | ... | 41697 | ... | ... |
| | 2013 | 35(a) | ... | 44255 | ... | ... |
| | 2014 | 32(a) | ... | 41714 | ... | ... |
| 6 | Sociedade De Fomento Ind. Ltd. Goa | | | | | |
| | 2012 | 2 | ... | 2434 | ... | ... |
| | 2013 | 2 | ... | 2434 | ... | ... |
| | 2014 | 2 | ... | 2434 | ... | ... |
| 7 | CIWTC, Kolkata. | | | | | |
| | 2012 | 4 (b) | ... | 1961 | ... | 12 |
| | 2013 | 8 (b) | ... | 3909 | ... | 16 |
| | 2014 | 7(b) | ... | 3690 | ... | 10 |
| 8 | Indo-Swiss Trading Co. Kolkata. | | | | | |
| | 2012 | | 2 | 118 | 270 | ... |
| | 2013 | | 2 | 118 | 270 | ... |
| | 2014 | | 2 | 118 | 270 | ... |
| 9 | Vivada Inland Waterways Ltd. Kolkata. | | | | | |
| | 2012 | 10 | 4 | ... | ... | ... |
| | 2013 | 10 | 4 | ... | ... | ... |
| | 2014 | 9 | 5 | ... | ... | ... |

**Table No. 5.1
(Contd...)**

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

| Sl. No. | Company/ Undertaking and Year | Self Propelled | | | | Non-Self Propelled (Dumb Barges) (No.) |
|---------|--|----------------|-----------------|---------------------|-------------------|---|
| | | Type of vessel | | Carrying capacity | | |
| | | Cargo (No.) | Passenger (No.) | Cargo(in Tonnes) | Passenger(in No.) | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 10 | West Bengal Surface Transport Corporation Ltd. | | | | | |
| | 2012 | 3 | 20 | ... | ... | ... |
| | 2013 | 3 | 20 | ... | ... | ... |
| | 2014 | 2 | 24 | ... | ... | ... |
| 11 | Hooghly Nadi Jalapath Paribahan Samabaya Samity, Kolkata. | | | | | |
| | 2012 | ... | 37 | ... | ... | ... |
| | 2013 | ... | 34 | ... | ... | ... |
| | 2014 | ... | 34 | ... | ... | ... |
| 12 | West Bengal Tourism Development Corporation limited, Kolkata. | | | | | |
| | 2012 | ... | 3 | ... | ... | ... |
| | 2013 | ... | 3 | ... | ... | ... |
| | 2014 | ... | 3 | ... | ... | ... |
| 13 | Eastern Navigation (P) Ltd., Kolkata. | | | | | |
| | 2012 | 8 | 3 | ... | ... | ... |
| | 2013 | 8 | 3 | ... | ... | ... |
| | 2014 | 10 | 1 | ... | ... | ... |
| 14 | Pradeep Boating Company, Kolkata. | | | | | |
| | 2012 | 2 | .... | ... | ... | ... |
| | 2013 | 2 | .... | ... | ... | ... |
| | 2014 | 2 | .... | ... | ... | ... |
| 15 | Costa River Transport Pvt Ltd., Goa. | | | | | |
| | 2012 | 3 | ... | 5122 | ... | ... |
| | 2013 | 3 | ... | 5122 | ... | ... |
| | 2014 | 3 | ... | 5122 | ... | ... |
| 16 | Ghatal Station Navigation (P) Ltd., Kolkata. | | | | | |
| | 2012 | ... | 3 | ... | ... | ... |
| | 2013 | ... | 3 | ... | ... | ... |
| | 2014 | ... | 3 | ... | ... | ... |
| 17 | Diamond Harbour Municipality, Kolkata. | | | | | |
| | 2012 | ... | 10 | ... | ... | ... |
| | 2013 | ... | 10 | ... | ... | ... |
| | 2014 | ... | 10 | ... | ... | ... |

Table No. 5.1 IWT Vessels With Valid Certificates of Survey-Owned By Responding Private Companies/Undertakings By Type (As on 31st March)

| Sl. No. | Company/ Undertaking and Year | Self Propelled | | | | Non-Self Propelled (Dumb Barges) (No.) |
|---------|---|----------------|-----------------|-------------------|-------------------|--|
| | | Type of vessel | | Carrying capacity | | |
| | | Cargo (No.) | Passenger (No.) | Cargo (in Tonnes) | Passenger(in No.) | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 18 | Chandan Nagar Municipality, Kolkata. | | | | | |
| | 2012 | ... | 5 | ... | ... | ... |
| | 2013 | ... | 5 | ... | ... | ... |
| | 2014 | ... | 5 | ... | ... | ... |
| 19 | Jain Navigation | | | | | |
| | 2012 | 2 | ... | ... | ... | ... |
| | 2013 | 2 | ... | ... | ... | ... |
| | 2014 | 2 | ... | ... | ... | ... |
| 20 | K.S.Singhi | | | | | |
| | 2012 | ... | ... | ... | ... | ... |
| | 2013 | 1 | ... | ... | ... | ... |
| | 2014 | 1 | ... | ... | ... | ... |
| 21 | Jindal ITF Ltd. | | | | | |
| | 2012 | ... | ... | ... | ... | ... |
| | 2013 | 2 | ... | ... | ... | ... |
| | 2014 | 18 | ... | ... | ... | ... |
| 22 | Soham Shipping Pvt.Ltd. | | | | | |
| | 2012 | ... | ... | ... | ... | ... |
| | 2013 | 4 | ... | ... | ... | ... |
| | 2014 | 4 | ... | ... | ... | ... |
| 23 | Rashmi Ore Carriers Pvt. Ltd. | | | | | |
| | 2012 | 1 | ... | 1314 | ... | ... |
| | 2013 | 1 | ... | 1314 | ... | ... |
| | 2014 | ... | ... | 1314 | ... | ... |
| 24 | Kothari Overseas Private Limited | | | | | |
| | 2012 | 1 | ... | 1893 | ... | ... |
| | 2013 | 1 | ... | 1893 | ... | ... |
| | 2014 | ... | ... | 1893 | ... | ... |
| 25 | Mayur Shipping Private Limited | | | | | |
| | 2012 | 1 | - | 1284 | ... | ... |
| | 2013 | 1 | - | 1284 | ... | ... |
| | 2014 | - | - | 1284 | ... | ... |
| 26 | Sanghi Brothers (Indore) Pvt Ltd. | | | | | |
| | 2012 | 5 | ... | 6476 | ... | ... |
| | 2013 | 5 | ... | 6476 | ... | ... |
| | 2014 | 5 | ... | 6476 | ... | ... |

... Not available.

* Formerly SESA Goa Ltd.

(a) Includes one Passenger Launch & one Oil Tanker

(b) 2 Pusher Tug & 2 Moter Tanker for 2012 & 5 Pusher Tug & 3 Oil Tanker for 2013,4 Pusher Tug & 3 Oil Tanker for 2014.

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

Table No. 5.2

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

| Sl.No. | Company/Undertaking and Year | Type of Vessels | No. of Powered Vessels Employed | Distance Travelled (Kms) | Freight Collected (Rs.in Lakh) | Cargo Carried | | Passenger Carried | |
|--------|---|------------------------|---------------------------------|--------------------------|--------------------------------|-------------------|--------------------|--------------------|------|
| | | | | | | Cargo (in Tonnes) | TKms (in millions) | Passenger (in No.) | PKms |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 1 | S. V. Salgaocar, Goa | | | | | | | | |
| | 2012 | Cargo | 3 | 14035 | 673.60 | 962400 | 13507.28 | ... | ... |
| | 2013 (f) | Cargo | - | - | - | - | - | ... | ... |
| | 2014 (f) | Cargo | - | - | - | - | - | ... | ... |
| 2 | D. V. Salgaocar, Goa | | | | | | | | |
| | 2012 | Cargo | 3 | 13825 | 663.60 | 948000 | 13106.10 | ... | ... |
| | 2013 (f) | Cargo | - | - | - | - | - | ... | ... |
| | 2014(f) | Cargo | - | - | - | - | - | ... | ... |
| 3 | V.M.Salgaocar Sales International | | | | | | | | |
| | 2012 | Cargo | 2 | 10115 | 485.52 | 693600 | 7015.76 | ... | ... |
| | 2013 (f) | Cargo | - | - | - | - | - | ... | ... |
| | 2014(f) | Cargo | - | - | - | - | - | ... | ... |
| 4 | Sesa Resources Ltd Goa | | | | | | | | |
| | 2012 | Cargo | 3 | 49400 | (d) | 793304 | 39189.22 | ... | ... |
| | 2013 | Cargo | 3 | 18100 | (d) | 278224 | 5035.85 | ... | ... |
| | 2014 | Cargo | 3 | 14800 | (d) | 163204 | 2415.41 | ... | ... |
| 5 | Sesa Sterlite Ltd, Goa. | | | | | | | | |
| | 2012 | Cargo | 31 | 365700 | (d) | 6933724 | 2535662.87 | ... | ... |
| | 2013 | Cargo/Pass/Oil Tankers | 35 | 134200 | (d) | 2582447 | 346564.39 | ... | ... |
| | 2014 | Cargo/Pass/Oil Tankers | 32 | 74300 | (d) | 1003364 | 74549.94 | ... | ... |
| 6 | Sociedade De Fomento Ind. Ltd., Goa | | | | | | | | |
| | 2012 | Cargo | 2 | 11770 | (a) | 194923 | 2294.24 | ... | ... |
| | 2013 | Cargo | 2 | 4510 | (a) | 71867 | 324.12 | ... | ... |
| | 2014* | Cargo | 2 | - | (a) | - | - | ... | ... |
| 7 | C.I.W.T.C., Kolkata. | | | | | | | | |
| | 2012 | Cargo/Tug/Spes/DBs | 3 | 12312 | 168.34 | 31243 | 384.66 | ... | ... |
| | 2013 | Cargo/Tug/Spes/DBs | 1 | 160 | 153.72 | 21300 | 3.41 | ... | ... |
| | 2014 | Cargo/Tug/Spes/DBs | - | - | 174.63 | 8250 | - | ... | ... |
| 8 | Indo-Swiss Trading Co.Pvt. Ltd., Kolkata | | | | | | | | |
| | 2012 | Pass. | 2 | 15120 | 108.34 | ... | ... | ... | ... |
| | 2013 | Pass. | 2 | 15610 | 110.25 | ... | ... | 3200 | ... |
| | 2014 | Pass. | 2 | 15300 | 143.26 | ... | ... | 2830 | ... |
| 9 | VIVADA Inland Waterways Ltd., Kolkata | | | | | | | | |
| | 2012 | Cargo/Tug/Pass/LCT | 14 | ... | 3755.95 | 794590(c) | ... | 27630 | ... |
| | 2013 | Cargo/Tug/Pass/LCT | 14 | ... | 3863.78 | 480740(c) | ... | 28250 | ... |
| | 2014 | Cargo/Tug/Pass/LCT | 14 | ... | 4024.38 | 495620(c) | ... | 27760 | ... |

Table No. 5.2 (Contd...)

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

| Sl.No. | Company/Undertaking and Year | Type of Vessels | No. of Powered Vessels Employed | Distance Travelled (Kms) | Freight Collected (Rs.in Lakh) | Cargo Carried | | Passenger Carried | |
|--------|---|-----------------|---------------------------------|--------------------------|--------------------------------|-------------------|--------------------|--------------------|------|
| | | | | | | Cargo (in Tonnes) | TKms (in millions) | Passenger (in No.) | PKms |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 10 | W. Bengal Surface Transport Corporation Ltd., Kolkata | | | | | | | | |
| | 2012 | Pass./LCT | 23 | ... | 591.32 | 23855(b) | ... | 7123000 | ... |
| | 2013 | Pass./LCT | 23 | ... | 408.32 | 24346(b) | ... | 15967000 | ... |
| | 2014 | Pass./LCT | 26 | ... | 402.56 | 23281(b) | ... | 16225000 | ... |
| 11 | Hooghly Nadi Jalapath Paribahan Samabaya Samity, Kolkata | | | | | | | | |
| | 2012 | Pass. | 37 | ... | 1009.49 | ... | ... | 22000000 | ... |
| | 2013 | Pass. | 34 | ... | 1129.85 | ... | ... | 23000000 | ... |
| | 2014 | Pass. | 34 | ... | 1203.72 | ... | ... | 25262000 | ... |
| 12 | West Bengal Tourism Development Corpn. Ltd., Kolkata | | | | | | | | |
| | 2012 | Pass. | 3 | ... | 149.63 | ... | ... | 12320 | ... |
| | 2013 | Pass. | 3 | ... | 158.97 | ... | ... | 10900 | ... |
| | 2014 | Pass. | 3 | ... | 148.27 | ... | ... | 8730 | ... |
| 13 | Eastern Navigation (P) Ltd., W. Bengal, Kolkata | | | | | | | | |
| | 2012 | Cargo/Tug/Pass. | 7 | ... | 160.42 | ... | ... | 7000 | ... |
| | 2013 | Cargo/Tug/Pass. | 11 | ... | 175.00 | 40600 | ... | ... | ... |
| | 2014 | Cargo/Tug/Pass. | 11 | ... | 200.00 | 56340 | ... | ... | ... |
| 14 | Pradeep Boating Company, W. Bengal, Kolkata | | | | | | | | |
| | 2012 | Tugs | 2 | ... | 1000.00 | 5000 | ... | ... | ... |
| | 2013 | Tugs | 2 | ... | 7.80 | 1200 | ... | ... | ... |
| | 2014 | Tugs | 2 | ... | 7.36 | 900 | ... | ... | ... |
| 15 | Costa River Transport Pvt. Ltd. Goa | | | | | | | | |
| | 2012 | Cargo | 3 | ... | 263.30 | 353900 | ... | ... | ... |
| | 2013 | Cargo | 3 | ... | 75.10 | 100950 | ... | ... | ... |
| | 2014 | Cargo | 3 | - | - | - | - | - | - |
| 16 | Ghatal steam Navigation (P) Ltd. Kolkata | | | | | | | | |
| | 2012 | Pass. | 3 | ... | 32.58 | ... | ... | 2325000 | ... |
| | 2013 | Pass. | 3 | ... | 40.36 | ... | ... | 2550000 | ... |
| | 2014 | Pass. | 3 | ... | 41.29 | ... | ... | 2629000 | ... |
| 17 | Diamond Harbour Municipality, Kolkata | | | | | | | | |
| | 2012 | Pass. | 10 | ... | 98.32 | ... | ... | 357400 | ... |
| | 2013 | Pass. | 10 | ... | 110.73 | ... | ... | 370290 | ... |
| | 2014 | Pass. | 10 | ... | 123.56 | ... | ... | 390320 | ... |
| 18 | Chandan Nagar Municipality, Kolkata | | | | | | | | |
| | 2012 | Pass. | 5 | ... | 4.60 | ... | ... | 500000 | ... |
| | 2013 | Pass. | 5 | ... | 5.25 | ... | ... | 760000 | ... |
| | 2014 | Pass. | 5 | ... | 5.45 | ... | ... | 762370 | ... |

Table No. 5.2 (Contd...)

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

| Sl.No. | Company/Undertaking and Year | Type of Vessels | No. of Powered Vessels Employed | Distance Travelled (Kms) | Freight Collected (Rs.in Lakh) | Cargo Carried | | Passenger Carried | |
|--------|---|-----------------|---------------------------------|--------------------------|--------------------------------|-------------------|--------------------|--------------------|------|
| | | | | | | Cargo (in Tonnes) | TKms (in millions) | Passenger (in No.) | PKms |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 19 | Jain Navigation | | | | | | | | |
| | 2012 | Tugs/Pass | 2 | ... | 14.00 | ... | ... | .... | .... |
| | 2013 | Tugs/Pass | 2 | ... | 17.37 | 5370 | ... | .... | .... |
| | 2014 | Tugs/Pass | 2 | ... | 16.45 | 7260 | ... | .... | .... |
| 20 | K.S.Singhi | | | | | | | | |
| | 2012 | Tugs | ... | ... | ... | ... | ... | .... | .... |
| | 2013 | Tugs | 1 | ... | 9.21 | 3290 | ... | .... | .... |
| | 2014 | Tugs | 1 | ... | 10.13 | 3310 | ... | .... | .... |
| 21 | Jindal ITF Ltd. | | | | | | | | |
| | 2012 | ... | ... | ... | ... | ... | ... | .... | .... |
| | 2013 | Cargo | 2 | ... | 55.33 | 27000 | ... | .... | .... |
| | 2014 | Cargo | 18 | ... | 65.23 | 40210 | ... | .... | .... |
| 22 | Soham Shipping Pvt.Ltd. | | | | | | | | |
| | 2012 | ... | ... | ... | ... | ... | ... | .... | .... |
| | 2013 | Cargo | 4 | ... | 58.48 | 39850 | ... | .... | .... |
| | 2014 | Cargo | 4 | ... | 49.72 | 25270 | ... | .... | .... |
| 23 | Rashmi Ore Carriers Pvt. Ltd. | | | | | | | | |
| | 2012 | Cargo | 1 | 3240 | 104.25 | 151957 | 492.34 | ... | ... |
| | 2013 | ... | ... | ... | ... | ... | ... | .... | .... |
| | 2014 | ... | ... | ... | ... | ... | ... | .... | .... |
| 24 | Kothari Overseas Private Limited | | | | | | | | |
| | 2012 | Cargo | 1 | ... | 54.36 | 65007 | ... | .... | .... |
| | 2013 | Cargo | 1 | ... | 8.20 | 11442 | ... | .... | .... |
| | 2014 | Cargo | ... | ... | ... | ... | ... | .... | .... |
| 25 | Mayur Shipping Pvt. Limited | | | | | | | | |
| | 2012 | Cargo | 1 | 2475 | 84.52 | 104338 | 258.24 | ... | ... |
| | 2013 | ... | ... | ... | ... | ... | ... | .... | .... |
| | 2014 | ... | ... | ... | ... | ... | ... | .... | .... |
| 26 | Sanghi Brothers (Indore) Pvt Ltd | | | | | | | | |
| | 2012 | Cargo | 5 | 3900 | 74.40 | 30134 | 117.52 | ... | ... |
| | 2013(e) | Cargo | ... | ... | ... | ... | ... | .... | .... |
| | 2014(c) | Cargo | ... | ... | ... | ... | ... | .... | .... |

(a) : transportation for self (b) : data relates to no of vehicles on L.C.T.

(c) :244761 no vehicles on LCT for the year 2010-11, 2011-12 & 257859 no. of vehicles on LCT for year 2012-13 and 26812 no. of vehicle on LCT for the year 2013-14

(d): Own barges plying for group company

(e): Barges not plied due to ban on mining.

(f): Ships have been baned by the Govt. Therefore cargo has been reported as 'Nil'.

* due to stoppage of iron ore mining by Goa Govt & Hon'ble Supreme Court

** Formerly SESA Goa Ltd.

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

SECTION – 6

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

Table No. 6.1

**PLAN WISE FINANCIAL PERFORMANE FROM 10th FIVE YEAR PLAN TO 11th FIVE YEAR PLAN
AND PART OF 12th FIVE YEAR PLAN**

(Rs in Cr.)

| Sl. No. | Budget head/ Waterways | 10th Five Year Plan | | | 11th Five Year Plan | | | Financial Year | | | Financial Year | | |
|------------|--|---------------------|---------------|---------------|---------------------|---------------|---------------|----------------|---------------|---------------|----------------|---------------|---------------|
| | | (2002-07) | | | (2007-12) | | | (2012-13) | | | (2013-14) | | |
| | | B.E | R.E | Exp. | B.E | R.E | Exp. | B.E | R.E | Exp. | B.E | R.E | Exp. |
| I | Grants to IWAI | | | | | | | | | | | | |
| 1 | National Waterway 1 | 154.97 | 155.11 | 135.62 | 241.69 | 235.81 | 228.95 | 78.90 | 55.03 | 58.89 | 74.43 | 65.24 | 48.74 |
| 2 | National Waterway 3 | 54.49 | 46.58 | 36.10 | 75.48 | 107.23 | 104.82 | 37.91 | 22.48 | 20.59 | 22.11 | 17.70 | 21.25 |
| 3 | Others | 37.60 | 23.88 | 12.99 | 26.00 | 7.59 | 9.57 | 15.21 | 18.60 | 16.63 | 22.26 | 7.06 | 11.59 |
| | Sub Total - I (Grants to IWAI) | 247.06 | 225.57 | 184.71 | 343.17 | 350.63 | 343.34 | 132.02 | 96.11 | 96.11 | 118.80 | 90.00 | 81.58 |
| II | North Eastern Area | | | | | | | | | | | | |
| 4 | National Waterway 2 | 216.28 | 180.60 | 132.15 | 319.29 | 243.17 | 202.07 | 70.99 | 44.80 | 43.33 | 72.00 | 48.21 | 50.25 |
| 5 | Central Plan scheme for NER | 17.00 | 0.00 | 0.00 | 16.03 | 15.03 | 6.62 | 3.70 | 3.70 | 1.87 | 3.20 | 3.20 | 1.22 |
| 6 | Proposed NW-6 (Barak) | 3.00 | 0.00 | 0.00 | 1.51 | 0.00 | 0.00 | 0.01 | 0.00 | 0.00 | 2.00 | 0.25 | 0.25 |
| 7 | Development of Indo- Bangladesh protocol for Channel marking, Dredging & Night Navigation etc. | 1.30 | 1.10 | 0.66 | 0.00 | 0.00 | 0.00 | 2.00 | 1.50 | 1.72 | 3.00 | 1.34 | 1.20 |
| | Sub total - II (NER) | 237.58 | 181.70 | 132.81 | 336.83 | 258.20 | 208.69 | 76.70 | 50.00 | 46.92 | 80.20 | 53.00 | 52.92 |
| III | Interest Subsidy to Bank, Loan to IWT Enterprenuer for Inland Vessel Subsidy Scheme | 8.50 | 5.00 | 5.40 | 8.00 | 7.00 | 4.13 | 2.00 | 1.00 | 0.90 | 0.00 | 0.00 | 0.00 |
| IV | Tech Studies & R&D | 26.00 | 19.00 | 9.09 | 5.00 | 5.00 | 4.32 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| V | Central Plan Scheme/ CSS | 40.00 | 65.00 | 52.83 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.20 | 3.20 | 1.21 |
| | Grand Total | 559.14 | 496.27 | 384.84 | 693.00 | 620.83 | 560.48 | 211.72 | 148.11 | 144.93 | 203.20 | 147.20 | 136.71 |

Centrally Sponsored Scheme for IWT sector was discontinued after 10th Plan

In addition to above, during the year 2013-14 an amount of Rs. 9.00 Crore was allocated in B.E. & R.E. Stage to be released to Government of Bangladesh for maintenance of Protocol routes on Inland Water Transit and Trade, out of which an amount of Rs. 8.077 Crore was released.

Source: Inland Waterways Authority of India

SECTION – 7

**INLAND WATERWAYS
TRANSPORT ACCIDENTS**

Table No. 7.1**No. of Accidents, Persons Injured And Died by Drowning (Boat Capsize) in States During 2013.**

| Sl. No. | State/UT | No. of Accidents | Drowning (Boat Capsize) | | | | | |
|--------------------------|-------------------|------------------|-------------------------|-----------|------------|---------------------|------------|------------|
| | | | No. of Persons Injured | | | No. of Persons Died | | |
| | | | Male | Female | Total | Male | Female | Total |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| STATES | | | | | | | | |
| 1 | Andhra Pradesh | 8 | 0 | 0 | 0 | 7 | 2 | 9 |
| 2 | Arunachal Pradesh | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3 | Assam | 21 | 0 | 0 | 0 | 14 | 10 | 24 |
| 4 | Bihar | 100 | 36 | 24 | 60 | 54 | 33 | 87 |
| 5 | Chhattisgarh | 34 | 0 | 0 | 0 | 23 | 12 | 35 |
| 6 | Goa | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7 | Gujarat | 13 | 0 | 0 | 0 | 15 | 1 | 16 |
| 8 | Haryana | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9 | Himachal Pradesh | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 | Jammu & Kashmir | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11 | Jharkhand | 13 | 0 | 0 | 0 | 11 | 3 | 14 |
| 12 | Karnataka | 5 | 0 | 0 | 0 | 10 | 0 | 10 |
| 13 | Kerala | 17 | 2 | 0 | 2 | 15 | 1 | 16 |
| 14 | Madhya Pradesh | 46 | 0 | 0 | 0 | 39 | 12 | 51 |
| 15 | Maharashtra | 12 | 0 | 0 | 0 | 16 | 10 | 26 |
| 16 | Manipur | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17 | Meghalaya | 1 | 0 | 0 | 0 | 1 | 0 | 1 |
| 18 | Mizoram | 19 | 0 | 0 | 0 | 18 | 1 | 19 |
| 19 | Nagaland | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20 | Odisha | 38 | 10 | 6 | 16 | 29 | 13 | 42 |
| 21 | Punjab | 3 | 0 | 0 | 0 | 3 | 0 | 3 |
| 22 | Rajasthan | 5 | 0 | 0 | 0 | 5 | 0 | 5 |
| 23 | Sikkim | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 24 | Tamil Nadu | 21 | 6 | 0 | 6 | 19 | 0 | 19 |
| 25 | Tripura | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 26 | Uttar Pradesh | 114 | 13 | 5 | 18 | 118 | 34 | 152 |
| 27 | Uttarakhand | 1 | 0 | 0 | 0 | 2 | 0 | 2 |
| 28 | West Bengal | 5 | 13 | 9 | 22 | 7 | 0 | 7 |
| Total(States) | | 476 | 80 | 44 | 124 | 406 | 132 | 538 |
| UNION TERRITORIES | | | | | | | | |
| 29 | A&N Island | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 30 | Chandigarh | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 31 | D&N haveli | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 32 | Daman & Diu | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 33 | Delhi | 46 | 0 | 0 | 0 | 43 | 3 | 46 |
| 34 | Lakshadweep | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 35 | Pondicherry | 1 | 0 | 0 | 0 | 1 | 0 | 1 |
| Total (UTs) | | 47 | 0 | 0 | 0 | 44 | 3 | 47 |
| Total States/UTs | | 523 | 80 | 44 | 124 | 450 | 135 | 585 |

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

Source : Accidental Deaths & Suicides in India - 2013

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

SECTION – 8

**INLAND WATERWAYS IN
SELECT COUNTRIES**

Table No. 8.1**Length of Navigable Inland Waterways in Europe and USA in 2005 & 2008****(In Kms.)**

| Sl. No. | Country | Canals | | Rivers and Lakes | | Total | |
|---------|--------------------------|--------|------|------------------|--------|--------|--------|
| | | 2005 | 2008 | 2005 | 2008 | 2005 | 2008 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1 | Albania | | | | | | |
| 2 | Austria | – | – | 351 | 351 | 351 | 351 |
| 3 | Belgium | 875 | 875 | 641 | 641 | 1516 | 1516 |
| 4 | Bulgaria | – | – | 470 | 470 | 470 | 470 |
| 5 | Croatia | – | – | 804 | 804 | 804 | 804 |
| 6 | Czech. Republic | 39 | 39 | 625 | 625 | 664 | 664 |
| 7 | Estonia | – | – | 320 | 335 | 320 | 335 |
| 8 | Finland | 125 | 125 | 7904 | 7858 | 8029 | 7983 |
| 9 | France | 3771 | 3577 | 2017 | 1623 | 5788 | 5200 |
| 10 | Germany | 2379 | 2379 | 5186 | 5186 | 7565 | 7565 |
| 11 | Hungary | 166 | 166 | 1392 | 1392 | 1558 | 1558 |
| 12 | Kazakhstan | – | – | 4032 | – | 4032 | – |
| 13 | Kyrgyzstan | – | – | 420 | 420 | 420 | 420 |
| 14 | Lithuania | 1 | 1 | 289 | 440 | 290 | 441 |
| 15 | Poland | 331 | 344 | 3307 | 3316 | 3638 | 3660 |
| 16 | Moldova | – | – | 42 | 42 | 42 | 42 |
| 17 | Netherlands | 4649 | 4706 | 1388 | 1396 | 6037 | 6102 |
| 18 | Romania | 132 | 132 | 1647 | 1647 | 1779 | 1779 |
| 19 | Russian Federation | 1244 | 1244 | 100435 | 100368 | 101679 | 101612 |
| 20 | Serbia and Montenegro | ... | 342 | ... | 1076 | – | 1418 |
| 21 | Slovakia | 39 | 39 | 134 | 134 | 173 | 173 |
| 22 | United Kingdom | 155 | 159 | 910 | 891 | 1065 | 1050 |
| 23 | United States of America | ... | ... | ... | ... | 42000 | – |
| 24 | Ukraine | 1156 | 1153 | 1035 | 1013 | 2191 | 2166 |

Source: Annual Bulletin of Transport Statistics for Europe & North America, 2011 (UN Publication).

Table No. 8.2**Length of Navigable Waterways By Permissible
carrying Capacity of Vessels - 2008**

| Sl.No. | Country | Total Length (Kms.) | Carrying Capacity of Vessels (in tonnes) | | | | | | |
|-----------|-----------------------|---------------------|--|---------|---------|---------|-----------|-----------|--------------|
| | | | upto 249 | 250-399 | 400-649 | 650-999 | 1000-1499 | 1500-2999 | 3000 & Above |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 1 | Albania | | | | | | | | |
| | Canals | | | | | | | | |
| | Rivers & Lakes | – | | | | | | | – |
| 2 | Austria | | | | | | | | |
| | Canals | | | | | | | | |
| | Rivers & Lakes | 351 | | | | | | | |
| 3 | Belgium | | | | | | | | |
| | Canals | 875 | – | 156 | 213 | – | 221 | 86 | 199 |
| | Rivers & Lakes | 641 | – | 182 | 34 | – | 210 | 162 | 53 |
| 4 | Bulgaria | | | | | | | | |
| | Canals | | | | | | | | |
| | Rivers & Lakes | 470 | | | | | | | |
| 5 | Croatia | | | | | | | | |
| | Canals | | | | | | | | |
| | Rivers & Lakes | 804 | - | 17 | 215 | 286 | 149 | ... | 138 |
| 6 | Czech Republic | | | | | | | | |
| | Canals | 39 | | | | | | | |
| | Rivers & Lakes | 625 | | | | | | | |
| 7 | Estonia | | | | | | | | |
| | Canals | | | | | | | | |
| | Rivers & Lakes | 335 | | | | | | | |
| 8 | Finland | | | | | | | | |
| | Canals | 125 | 9 | ... | ... | 16 | ... | 100 | ... |
| | Rivers & Lakes | 7858 | 4148 | ... | ... | 2909 | ... | 801 | ... |
| 9 | France | | | | | | | | |
| | Canals | 3577 | 39 | 2670 | 57 | 217 | 27 | 17 | 550 |
| | Rivers & Lakes | 1623 | ... | 351 | 108 | - | 4 | 219 | 942 |
| 10 | Germany | | | | | | | | |
| | Canals | 2379 | 112 | 239 | ... | 35 | 1403 | 391 | 109 |
| | Rivers & Lakes | 5186 | 386 | 734 | 90 | 227 | 830 | 1870 | 1049 |
| 11 | Hungary | | | | | | | | |
| | Canals | 166 | - | - | - | - | - | - | - |
| | Rivers & Lakes | 1392 | - | 78 | 451 | 336 | 147 | - | 380 |

**Table No. 8.2
(Contd...)****Length of Navigable Waterways By Permissible Carrying Capacity of Vessels - 2008**

| Sl.No. | Country | Total Length (Kms.) | Carrying Capacity of Vessels (in tonnes) | | | | | | |
|-----------|--------------------------|---------------------|--|---------|---------|---------|-----------|-----------|--------------|
| | | | upto 249 | 250-399 | 400-649 | 650-999 | 1000-1499 | 1500-2999 | 3000 & Above |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 12 | Kazakhstan* | | | | | | | | |
| | Canals | | | | | | | | |
| | Rivers & Lakes | | | | | | | | |
| 13 | Kyrgyzstan* | | | | | | | | |
| | Canals | | | | | | | | |
| | Rivers & Lakes | | | | | | | | |
| 14 | Lithuania | | | | | | | | |
| | Canals | 1 | | | | 1 | | | |
| | Rivers & Lakes | 440 | - | 151 | - | 289 | - | - | - |
| 15 | Moldova | | | | | | | | |
| | Canals | | | | | | | | |
| | Rivers & Lakes | | | | | | | | |
| 16 | Netherlands | | | | | | | | |
| | Canals | 4706 | - | - | - | - | - | - | - |
| | Rivers & Lakes | 1396 | - | - | - | - | - | - | - |
| 17 | Poland | | | | | | | | |
| | Canals | 344 | ... | 176 | 106 | 47 | ... | ... | 15 |
| | Rivers & Lakes | 3316 | 909 | 893 | 965 | 350 | 38 | 55 | 106 |
| 18 | Romania | | | | | | | | |
| | Canals | 132 | ... | ... | - | - | - | - | - |
| | Rivers & Lakes | 1647 | ... | ... | - | - | - | - | - |
| 19 | Serbia | | | | | | | | |
| | Canals | 342 | 21 | 321 | - | - | - | - | - |
| | Rivers & Lakes | 1076 | 38 | - | 45 | 405 | - | 588 | - |
| 20 | Slovakia | | | | | | | | |
| | Canals | 39 | - | - | - | - | - | - | 39 |
| | Rivers & Lakes | 134 | - | - | - | - | - | - | 134 |
| 21 | Ukraine | | | | | | | | |
| | Canals | 1153 | - | - | - | - | - | - | - |
| | Rivers & Lakes | 1013 | - | - | - | - | - | - | - |
| 22 | United Kingdom | | | | | | | | |
| | Canals | 159 | - | - | - | - | - | - | - |
| | Rivers & Lakes | 891 | - | - | - | - | - | - | - |
| 23 | Russian Fedration | | | | | | | | |
| | Canals | 1244 | | | | | | | |
| | Rivers & Lakes | 100368 | | | | | | | |

Source : Annual Bulletin of Transport Statistics for Europe & North America-2011.

Table No. 8.3**Inland Waterways vessels in Service at the end of 2008**

| Sl. No. | Country | Self Propelled Vessels | | | D. & P. Vessels | | Tugs and Pushers | |
|---------|--------------------------|------------------------|--------------------------------|----------------|-----------------|--------------------------------|------------------|----------------|
| | | Nos. | Carrying Capacity (Th. Tonnes) | Power (Th. KW) | Nos. | Carrying Capacity (Th. Tonnes) | Nos. | Power (Th. KW) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 1 | Albania | ... | ... | ... | ... | ... | ... | ... |
| 2 | Austria | ... | ... | ... | ... | ... | ... | ... |
| 3 | Belgium | 1126 | 1387.00 | ... | 244 | 460.00 | ... | ... |
| 4 | Bulgaria | 21 | 30.90 | 20.10 | 159 | 250.50 | 35 | 32.70 |
| 5 | Croatia | 9 | 9.00 | 6.00 | 129 | 87.00 | 59 | 16.00 |
| 6 | Czec. Republic | 44 | 44.00 | 19.00 | 173 | 86.00 | 98 | 27.00 |
| 7 | Estonia | 7 | ... | 1.21 | 3 | 1.20 | 2 | 0.22 |
| 8 | Finland | 145 | 14.00 | 29.00 | 33 | 6.00 | 28 | 8.00 |
| 9 | France | 903 | 586.00 | 265.00 | 469 | 550.00 | ... | ... |
| 10 | Germany | 1319 | 1834.00 | ... | 1082 | 1059.00 | ... | ... |
| 11 | Hungary | 85 | - | - | 329 | 329.00 | 80 | - |
| 12 | Kazakhstan(a) | - | ... | ... | ... | ... | ... | ... |
| 13 | Kyrgyzstan(a) | 5 | ... | ... | ... | ... | ... | ... |
| 14 | Lithuania | 35 | 13.10 | 10.60 | 23 | 8.92 | 21 | 4.21 |
| 15 | Poland | 109 | 68.00 | 33.00 | 431 | 213.00 | 212 | 57.00 |
| 16 | Republic of Moldova | ... | ... | ... | ... | ... | ... | ... |
| 17 | Romania | 105 | ... | ... | 1221 | ... | 256 | ... |
| 18 | Serbia and Montenegro | 67 | 66.00 | 17.20 | 382 | 438.00 | 122 | 67.00 |
| 19 | Slovakia | 29 | 21.60 | 13.50 | 157 | 236.60 | 41 | 41.00 |
| 20 | Ukraine | 232 | 159.00 | 120.00 | 593 | 939.00 | 327 | 144.00 |
| 21 | United Kingdom | 158 | 40.00 | ... | 287 | 98.00 | 92 | ... |
| 22 | United States of America | ... | ... | ... | ... | ... | ... | ... |
| 23 | Russian Federation | 2492 | 2256.00 | 1051.00 | 7264 | 8542.00 | 8023 | 1829.00 |

D. & P. Vessels : Dumb & Pushed Vessels

Source: Annual Bulletin of Transport Statistics for Europe and North America, 2011

Table No. 8.4**Goods Transport by Type of Transport on National Territory - 2008**

| Sl. No. | Country | Goods carried ('000 Tonnes) | | | | Tonne Kms. of Goods carried(Million)* | | | |
|---------|----------------------------|-----------------------------|---------------|----------|---------|---------------------------------------|---------------|----------|---------|
| | | National | International | | Transit | National | International | | Transit |
| | | | Loaded | Unloaded | | | Loaded | Unloaded | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 1 | Albania | ... | ... | ... | ... | ... | ... | ... | ... |
| 2 | Austria | 502 | 2166 | 5731 | 2810 | 92 | 260 | 1023 | 983 |
| 3 | Belgium | 36772 | 29943 | 53472 | 10163 | 3498 | 1425 | 3090 | 733 |
| 4 | Bulgaria | 2544 | 934 | 3054 | 4425 | 70 | 191 | 618 | 2012 |
| 5 | Croatia | 141 | 318 | 421 | 5535 | 31 | 21 | 27 | 764 |
| 6 | Czech-Republic | 388 | 185 | 178 | - | 12 | 10 | 6 | - |
| 7 | Estonia | ... | ... | ... | ... | ... | ... | ... | ... |
| 8 | Finland | 335 | ... | ... | ... | 80 | ... | ... | ... |
| 9 | France | 29570 | 16822 | 13762 | 9154 | 4476 | 1438 | 1590 | 1053 |
| 10 | Germany | 57552 | 57845 | 107523 | 22742 | 11616 | 14698 | 23558 | 14189 |
| 11 | Hungary | 74 | 3095 | 1795 | 3866 | 6 | 476 | 303 | 1462 |
| 12 | Kazakhstan | ... | ... | ... | ... | ... | ... | ... | ... |
| 13 | Kyrgyzstan | 43 | ... | ... | ... | 8 | ... | ... | ... |
| 14 | Lithuania | 146 | ... | ... | ... | 12 | ... | ... | ... |
| 15 | Poland | 3672 | 1741 | 342 | 2354 | 157 | 381 | 79 | 657 |
| 16 | Republic of Moldova | - | - | - | - | ... | - | - | - |
| 17 | Romania | 22646 | 3963 | 3563 | 123 | 4622 | 2043 | 1940 | 82 |
| 18 | Russian Federation | 138388 | 10771 | 648 | 13 | 44559 | 16309 | 1113 | 34 |
| 19 | Serbia and Montenegro | 4367 | 1324 | 3986 | 6417 | 414 | 1026 | 3738 | 10327 |
| 20 | Slovakia | 84 | 2080 | 257 | 5950 | 6 | 46 | 26 | 1023 |
| 21 | Ukraine | 7272 | - | - | - | 557 | - | - | - |
| 22 | United Kingdom | 3659 | - | - | - | 164 | - | - | - |
| 23 | United States of America** | 615872 | ... | ... | ... | ... | ... | ... | ... |

Source: Annual Bulletin of Transport Statistics for Europe and North America 2011

* : Kilometers within the territory of the reporting country.

** : Data relates to 2005

APPENDICES

DEFINITIONS OF TERMS USED

(For Section-8)

Source : Annual Bulletin of Transport Statistics for Europe and North America

| | |
|---|---|
| <u>Navigable Inland Waterways</u> | A stretch of water, not part of the sea, over which craft of a carrying capacity not less than 50 tonnes can navigate when normally loaded. This term covers both navigable rivers and lakes (natural water-courses, whether or not they have been improved for navigation purposes) and canals (waterways constructed primarily for the purpose of navigation). The length of rivers and canals is measured in mid channel and length of lakes, as well as lagoons, is counted as the length between the most distant points between which the transport is performed. An inland waterway forming a common frontier between two countries is reported by both. |
| <u>Inland Water Transport (IWT) Craft</u> | Craft having a minimum carrying capacity of 20 tonnes designed for the carriage of goods by inland waterways. |
| <u>Dumb Barge</u> | IWT craft designed for being towed and not having its own means of mechanical propulsion. The fact that a dumb barge is fitted with an auxiliary engine does not change its nature. |
| <u>Dumb Tanker</u> | Dumb barge intended for the bulk transport of liquids or gases. Tankers for the transport in bulk of powdered products such as cement, flour, plaster, etc. are to be excluded, and to be counted among dumb barges. |
| <u>Self-Propelled Barge</u> | IWT craft having its own means of mechanical propulsion, dumb barges, pushed barges and pushed-towed barges with only an auxiliary engine should be regarded as dumb, pushed or pushed-towed barges as the case may be. The fact that a self propelled barge can be used for towing does not change its nature. |
| <u>Self Propelled Tanker</u> | Self propelled barge intended for the bulk transport of liquids or gases. Tankers for the transport in bulk of powdered products such as cement, flour, plaster etc. are to be excluded and to be counted among self-propelled barges. |
| <u>Self Propelled Craft for River-Sea Navigation</u> | Craft having a Dead Weight capacity of at least 20 tonnes, designed for the transport of goods by river and by Sea and equipped with their own means of propulsion developing at least 37 KW. |
| <u>Tug</u> | Powdered craft developing not less than 37 KW and designed for the towing of dumb barges, pushed towed barges, rafts, but not for the carriage of goods. |

Pusher Craft

Powdered craft developing not less than 37 KW and designed or fitted for the pushing of pushed or pushed-towed barges but not for the carriage of goods.

Pusher Tug

Powdered craft developing not less than 37 KW and designed or fitted for the towing of dumb barges, pushed-towed barges or rafts, and for the pushing pushed and pushed-towed barges but not for the carriage of goods.

Pushed Barge

IWT craft designed for being pushed and not having its own means of mechanical propulsion. The fact that a pushed barge is fitted with an auxiliary engine does not change its nature.

Pushed Barge

Pushed barge intended for the bulk transport of liquids or gases. Tankers for the transport in bulk of powdered products such as cement, flour, plaster etc. are to be excluded and to be counted among pushed barges.

Carrying Capacity (also referred to as Dead Weight Capacity)

Maximum permissible weight of goods, expressed in tones, which a craft may carry according to ship's document.

Power (KW)

Mechanical force developed by the motive power installation in craft. This power should be measured in effective kilowatts (power transmitted to the propeller).

ABBREVIATION

| | |
|------------|---|
| ... | Not Available |
| - | Nil |
| IWT | Inland Water Transport |
| Kms. | Kilometers |
| M.T. | Metric Tonnes |
| CIWTC | Central Inland Water Transport Corporation |
| IWAI | Inland Waterways Authority of India |
| KSINC | Kerala Shipping & Inland Navigation Corporation |
| H.P. | Horse Power |
| POL | Petroleum Oil Lubricant |
| ODC | Over Dimensional Cargo |
| LAG | Liquified Ammonia 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. |