STATISTICS OF INLAND WATER TRANSPORT 2009-10



Government of India

Ministry of Shipping

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PREFACE

Transport Research Wing (TRW) is the nodal agency for providing information/data on various facets of road and water borne transport modes. The present issue "Statistics of Inland Water Transport 2009-10" is the 17th issue in the Series.

The present volume begins with 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 undertaken by private and public sector undertakings, plan outlays/expenditure for IWT Sector, accidents related to inland waterways and Inland Waterways in select countries.

As the information contained in the volume is obtained from a large number of source agencies spread across both public and private sector, there is a time lag in bringing out collated data. We hope to reduce the time lag in bringing out this publication with the cooperation of the various stake holders. In particular, we would lime 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 too the release of this publication.

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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 Brahmputra 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, India, Planning Commission, May 1980 Report of the National Transport Policy Committee, Government of

NAVIGABLE WATERWAYS & INFRASTRUCTURE

6. Length of waterways alongwith 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 Uttar Pradesh with 6444 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 16%. Other States with good inland water transport prospects are Goa, Maharastra and Bihar where waterways navigable length is 77.9, 73.5 and 62.4% respectively. Twelve states have reported river length as well as navigable length for 123 rivers. These 123 rivers have total length of 23381 Km of which 51.50% is navigable length.

| Table 1: Total and Navigable Length of Waterways in different States -2009-10 (In kms) | | | | | | | |
|--|-----------------------------|-------------|-------------------------|--|--|--|--|
| State | Total Length of the Rivers/ | Navigable | Percentage of Navigable | | | | |
| | Canals/ Lakes in State(Km.) | Length(Km.) | Length to Total Length | | | | |
| Andhra Pradesh | 501 | 791 | 31.62 | | | | |
| Assam# | 3700 | 1043 | 28.18 | | | | |
| Bihar## | 2229 | 1391 | 62.40 | | | | |
| Goa | 260 | 202 | 77.69 | | | | |
| Gujarat | 802 | 129 | 16.10 | | | | |
| Karnataka | 2862 | 1407 | 49.16 | | | | |
| Kerala### | 2779 | 845.2 | 30.41 | | | | |
| Maharashtra | 634 | 466 | 73.50 | | | | |
| Orissa### | 1378 | 508 | 36.86 | | | | |
| Nagaland** | 937 | 375 | 40.02 | | | | |
| Mizoram | 559 | 293 | 52.41 | | | | |
| Tamil Nadu | 170 | | | | | | |
| Uttar Pradesh | 6444 | 425@ | _ | | | | |
| West Bengal | 4741 | 4593 | 96.87 | | | | |

^{...} Not Available ** Pertains to 2006-07.

[@] Navigable length Pertains to NW I for Allahabad-Buxar stretch in Uttar Pradesh.

^{*} Pertains to 2 rivers. There are 24 others rivers in Assam having navigable length of 1514 Kms whose total length is not available.

^{**} Pertains to 6 rivers. There are 9 others rivers in Bihar having total length of 1534 Kms whose navigable length is not available.

^{***} Pertains to 34 rivers. There are 7 others rivers in Kerala having total length of 313 Kms whose navigable length is not available.

^{****} Pertains to 3 rivers. There are 26 others rivers in Orissa having navigable length of 1142 Kms whose total length is not available.

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 increased to 69.6 million tonnes in 2009-10 from 58.0 million tonnes in 2008-09 reflecting an increase of 20%. In terms of tonnage Goa and Maharashtra, accounted for about 78.2% and 18.0% of the cargo volume respectively with balance 3.8% being accounted by the 3 National Waterways in 2009-10. However, in terms of tonne km. (movement of one tonne of cargo over a distance of one km) there was an annual growth of 25.78% in 2009-10. Goa waterways accounted for around 63.1% 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 43 Kms and 25 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 40 Kms and 15 Kms respectively in 2009-10. In case of National Waterway I (Ganga- Bhagirathi-Hooghly) the average distance over which cargo moved was relatively much longer at around 566 Kms.

| S1. | Dataila of Waterway | Cargo Moved | (lakh Tonnes) | Tonne Kms (i | n lakh) | |
|--|---------------------------|--------------|----------------|--------------|-------------|--|
| No. | Details of Waterway | 2008-09 | 2009-10 | 2008-09 | 2009-10 | |
| 1 | National Waterway No. I | 13.54(2.3) | 18.37 (2.6) | 7068(24.0) | 10402(28.0) | |
| 2 | National Waterway No. II | 2.31(0.4) | 1.83(0.2) | 142(0.5) | 74(0.2) | |
| 3 | National Waterway No. III | 7.66(1.3) | 6.67(1.0) | 109(0.4) | 97(0.3) | |
| | Sub Total NWs | 23.51(4.0) | 26.87(3.8) | 7319(24.8) | 10574(28.6) | |
| 4 | Goa Waterways | 457.10(78.8) | 544.32(78.2) | 19677(66.8) | 23405(63.1) | |
| 5 | Maharashtra Waterways | 99.63(17.2) | 125.10(18.0) | 2487(8.4) | 3107(8.4) | |
| Grand Total 580.24(100.0) 696.29(100.0) 29483(100.0) 37085 | | | | | | |

- (ii) Data for Goa Waterways include the data received from Ports department, Govt of Goa and the the data received from the Mormugao Port Trust (MPT).
- (iii) Maharashtra Maritime Board for Maharashtra Waterways.

Note

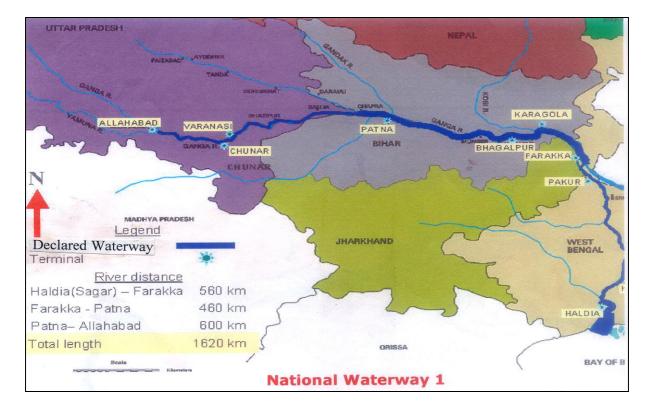
- 1. Cargo handled in Kolkata-Bangladesh-Kolkata route is included in the traffic on National Waterway No.I. The route is a link between NW-I & NW-II through Bangladesh
- 2. Average IWT distance of 50kms for the data received from Govt of Goa and 40.6kms for the data received from Mormugao Port Trust.
- 3. Figure within bracket indicates percentage to the total.

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 x1.2m);
- 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 has gone up to 18.37 lakh tonnes in 2009-10 from 13.54 lakh tonnes in 2008-09 reflecting an annual growth of 35.67%.

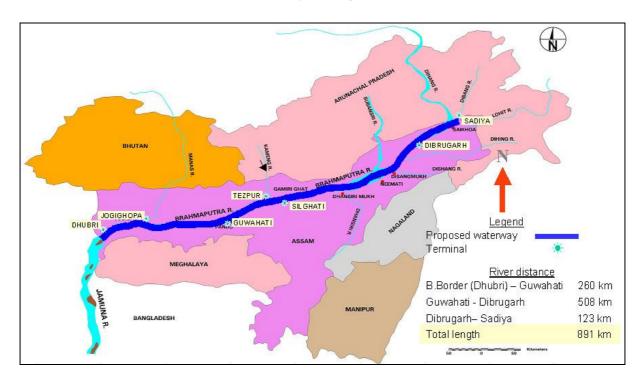


The composition of cargo movement on National Waterway I shows that share of POL/POL Products, food items and ore/minerals in the total cargo movement has declined whereas share of Building material & miscellaneous items has gone up in the year 2009-10 compared with their share in total cargo in the preceding year. Building material has gained in significance over the years in terms of its share in total cargo moved through NW-I. It accounts for a share of more than 75% in total cargo movement along the NW-I. POL/POL products was second largest commodity group which used the NW-I, however, share of POL/POL products in total cargo moved through NW-I has fallen over the years. Table 3 give an idea of composition of different cargos moved along the NW-I over the years.

| Table 3: Composition of Cargo Moved on National Waterway- I (In Tonnes) | | | | | | | |
|---|---------------|----------------|----------------|----------------|----------------|--|--|
| Name of the Commodity | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 | | |
| Building Material | 525779(52.6) | 773740(58.7) | 899519(59.6) | 835585(61.7) | 1388365(75.6) | | |
| Fertilizers | 1719(0.2) | - | 2400(0.2) | - | - | | |
| Food items | 37781(3.8) | 10268(0.8) | 4894(0.3) | 42352 (3.1) | 1434 (0.1) | | |
| Miscellaneous | 20944(2.1) | 1297(0.1) | 193917(12.8) | 42814(3.2) | 145000(7.9) | | |
| Mix | 3368(0.3) | 191936(14.6) | | - | - | | |
| Ore/Minerals | 80989(8.1) | 48606(3.7) | 68284(4.5) | 96358(7.1) | 25283(1.4) | | |
| POL/POL products | 328663(32.9) | 291548(22.1) | 341404(22.6) | 337189(24.9) | 277030(15.0) | | |
| Total NW I | 999243(100.0) | 1317395(100.0) | 1510418(100.0) | 1354298(100.0) | 1837112(100.0) | | |
| Note: Figure within bracket indicates percentage to the total. | | | | | | | |

National Waterways No. II (The Brahmaputra)

10. 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.



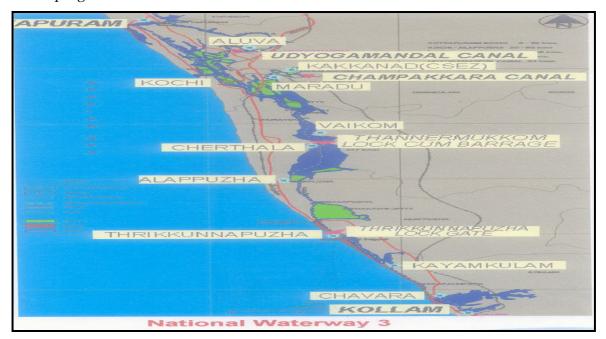
11. The total cargo traffic on NW II has gone down to 18.33 lakh tonnes during 2009-10 from 23.13 lakh tonnes during 2008-09 reflecting a decline of (-) 20.8%. Commodity wise composition of cargo movement indicates that there is no single item with significant share on this waterway. The overwhelming share of cargo moved on this waterway is of a mixed nature.

| Table 4: Composition of Cargo Moved on National Waterway - II (In Tonnes) | | | | | | | | |
|---|---|----------------|---------------|--------------|--------------|--|--|--|
| Commodity | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 | | | |
| Building | | | | | | | | |
| Material | 0 (0.0) | 360(0.03) | 2500(0.2) | 5100(2.2) | 745 (0.4) | | | |
| Food items | 0 (0.0) | 985(0.09) | - | - | 336 (0.2) | | | |
| Miscellaneous | 220(0.03) | - | 1298410(99.3) | 225040(97.3) | 182260(99.4) | | | |
| Mix | 796612(99.03) | 1076874(99.16) | - | - | - | | | |
| Ore/Minerals | 1051(0.13) | - | - | - | 0 (0.0) | | | |
| POL/POL | | | | | | | | |
| Products | 6518(0.81) | 7807(0.72) | 6679(0.5) | 1169(0.5) | 0 (0.0) | | | |
| Total NW II 804401(100.0) 1086026(100.0) 1307589(100.0) 231309(100.0) 183341(100.0) | | | | | | | | |
| Note: Figure w | Note: Figure within bracket indicates percentage to the total | | | | | | | |

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The National Waterway No. III (West Coast Canal)

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.



The total volume of cargo moved on National Waterway III has been fluctuating over the past few years. It has, however, gone down from 76.62 lakh tonnes in 2008-09 to 66.71 lakh tonnes in 2009-10 recording a (-)12.9% decline. The cargo composition of freight traffic shows that Fertilisers, Food items and POL/POL products were the major commodities moved through NW-III accounting for 37.3%, 29.9% and 19.7% respectively of the total cargo movement in 2009-10.

| Table 5: Composition of Cargo Moved on National Waterway - III (In Tonnes) | | | | | | | |
|--|--------------|--------------|--------------|--------------|--------------|--|--|
| Commodity | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 | | |
| Chemicals | 39131(3.3) | 18864(1.8) | 53319(7.9) | - | - | | |
| Fertilisers | 564153(48.1) | 509703(49.8) | 168083(25.0) | 327824(42.8) | 248917(37.3) | | |
| Food items | 432860(36.9) | 336570(32.9) | - | - | 199400(29.9) | | |
| Mix | 17680(1.5) | 23080(2.3) | 288678(42.9) | 308218(40.2) | 34868(5.2) | | |
| Ore/Minerals | - | - | 136505(20.3) | 44953(5.9) | 52452(7.9) | | |
| POL/POL | 119065(10.2) | 134559(13.2) | 26542(3.9) | 85219(11.1) | 131560(19.7) | | |
| products | | | | | | | |
| Total NW III 1172889(100.0) 1022776(100.0) 673127(100.0) 766214(100.0) 667197(100.0) | | | | | | | |
| Note: Figure within bracket indicate percentage to the total | | | | | | | |

12. The total cargo moved through all the three National Waterways (NW) increased by 14.3% to 26.87 lakh tonnes during 2009-10 compared with 23.51 lakh tonnes during 2008-09. In 2009-10, 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 68.4%, 6.8%, and 24.8% respectively of the total cargo moved in national waterways respectively. In terms of tonne kilometers, the share of NW I, NW II and NW III is 98.3%, 0.7% and 1.0% of the total tonne kilometers moved. The high share of NW I in tonne kilometers reflect long average distance traversed by cargo of 566 kms compared with an average distance of about 40 kms for NW II and average distance of 14.5 kms for NW III in the year 2009-10. Table 6 gives cargo movement of National Waterways in Tonnage and Tonne Kilometers.

| Table 6: Cargo Movement on National Waterways | | | | | | | | |
|---|------------------------------|--------------|------------------|-------------|----------------|--|--|--|
| S1. No. | Details of Waterway | | Moved Fonnes) | _ | e Kms akh) | | | |
| | | 2008-09 | 2009-10 | 2008-09 | 2009-10 | | | |
| 1 | National Waterway No. I | 13.54(2.3) | 18.37 (2.6) | 7068(24.0) | 10402(28.0) | | | |
| 2 | National Waterway No. II | 2.31(0.4) | 1.83(0.2) | 142(0.5) | 74(0.2) | | | |
| 3 | National Waterway No. III | 7.66(1.3) | 6.67(1.0) | 109(0.4) | 97(0.3) | | | |
| | Total NWs | 23.51(100.0) | 26.87(100.0) | 7319(100.0) | 10573(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 bracket indicate percentage to the total

The movement of Building material and Fertilizer has shown significant increase on the National Waterways since 2004-05. The share of Building material has increased from 4.5% in 2004-05 to 51.6% in 2009-10. However, the movement in Food items and chemicals has shown considerable decrease during this period. Share of Building materials has gone up from 35.8% in 2008-09 to 51.6% in 2009-10 from 1.8% to 7.5%. Share of fertilizers, Ore/Mineral and POL/POL products has declined in 2009-10 over 2008-09. The details of the commodities moved on the National Waterways may be seen from Table 7.

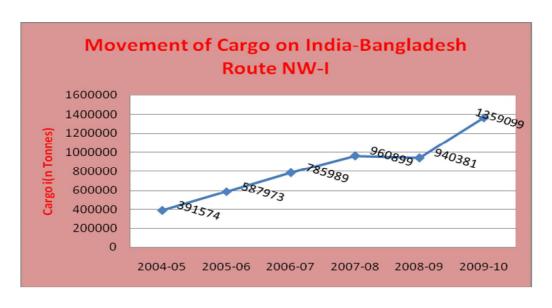
| Tab | Table 7: Composition of Cargo Moved on national waterways (In tonnes) | | | | | | | | |
|-----------------|---|-----------------|----------------|----------------|----------------|--|--|--|--|
| Commodity | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 | | | | |
| Building | | | | | | | | | |
| Material | 525779(17.7) | 774100(22.6) | 902019(25.8) | 840685(35.8) | 1389110 (51.6) | | | | |
| Chemicals | 39131(1.3) | 18864(0.6) | 53319(1.5) | - | - | | | | |
| Fertilisers | 565872(19.0) | 509703(14.9) | 170483(4.9) | 327824(13.9) | 248917 (9.3) | | | | |
| Food items | 470641(15.8) | 347823(10.2) | 4895(0.1) | 42352(1.8) | 201170 (7.5) | | | | |
| Miscellaneous | 21164(0.7) | 1297(Neg.) | 1492327(42.7) | 267854(11.4) | 327260(12.2) | | | | |
| Mix | 817660(27.5) | 1291890(37.7) | 288678(8.3) | 308218(13.1) | 34868 (1.3) | | | | |
| Ore/Minerals | 82040(2.7) | 48606(1.4) | 204789(5.9) | 141311(6.0) | 77735 (2.9) | | | | |
| POL/POL | | | | | | | | | |
| Products | 454246(15.3) | 433914(12.7) | 374625(10.7) | 423577(18.0) | 408590 (15.2) | | | | |
| Total | 2976533(100.0) | 3426197(100.00) | 3491135(100.0) | 2351821(100.0) | 2687650(100.0) | | | | |
| Note : Figure w | Note: Figure within bracket 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

13. Movement of cargo along India Bangladesh route of National Waterways I has shown steep growth of 44.5% in year 2009-10 compare to decline of 0.02% registered in 2008-09. The cargo moved over this route has increased to 1359099 tonnes in 2009-10 against 940381 tonnes in 2008-09. The graph inserted below depicts trend in cargo movement on India-Bangladesh route National Waterway-I during the years 2004-05 to 2009-10.



The table 8 shows the cargo and the main commodities carried on India-Bangladesh route on National Waterway-I during the years 2005-06 to 2009-10

| Table 8: Movement of Cargo (in Tonnes) on India- Bangladesh route of NW I*(Tonnes) | | | | | | | | |
|--|---------|---------|---------|---------|---------|---|--|--|
| Route | 2005-06 | 2006-07 | 2007-08 | 2008-09 | 2009-10 | Commodities | | |
| India to Bangladesh | 586973 | 785989 | 955722 | 940381 | 1359099 | Flyash, Salt in bulk, Rice, Wheat POL, Coal, Slag Gypsum, HSD. | | |
| Bangladesh to India | 1000 | - | 5177 | - | - | Cement, Bone crushed | | |
| Total | 587973 | 785989 | 960899 | 940381 | 1359099 | | | |
| *Data pertains to cargo carried on Indian registered vessels only. | | | | | | | | |

TWO NEW NATIONAL WATERWAYS

- 14. 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) (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 (NW5,623kmGazette notifications for both these waterways were published on 25.11.2008. Detailed Project Reports (DPR) for these new NWs are being prepared.

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

- 15. 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 Buckingam 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.

- 16. 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).
- 17. 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:-

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.

18. 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).

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

(i) East Coast Canal (Geonkhali-Charbatia) 217km.

(ii) Matai River (Charbatia- Dhamra) 40 km.

(iii) River Brahmani (Talcher-Dhamra) 265 km.

(iv) Mahanadi delta river (Mangalgadi-Paradip) 101 km.

Total. 623 km.

- 20. 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)

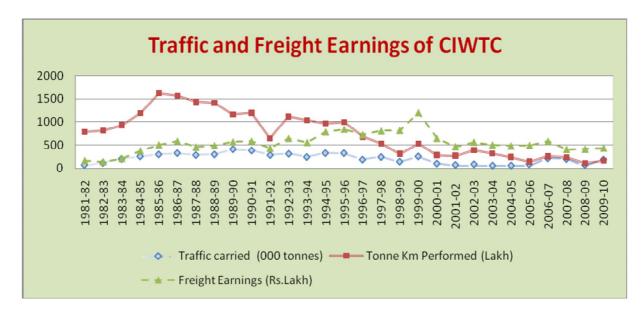
The estimated cost of development of National Waterway at 2002 price is Rs. 1526 crore.

CENTRAL INLAND WATER TRANSPORT CORPORATION (CIWTC LTD)

21. 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.

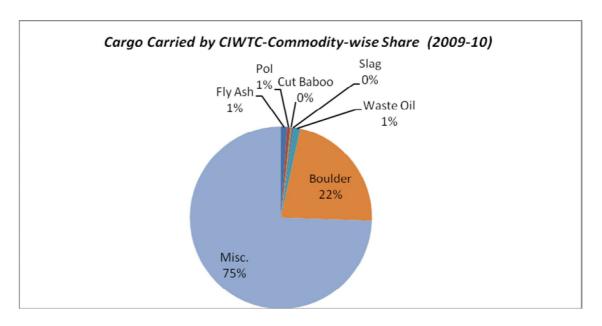
CIWTC Ltd. has three main divisions, viz. River services Division (RSD), Rajabagan Dockyard (RBD) and Deep Sea Ship Repair (DSSR).

- i) River Services Division (RSD) 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).
- ii) The Rajabagn Dockyard (RBD), whose main factory establishment is located at Kolkata, is engaged in ship building, ship repair and general engineering activities.
- iii) The Deep Sea Ship Repair Division (DSSR) located at Kolkata undertakes repair of ocean going vessels for outside agencies.
- 22. The cargo carried by CIWTC increased by 155.4% in the year 2009-10 to 189000 tonnes against 74070 tonnes in 2008-09. Concomitantly, the freight earnings also went up by 58% from Rs. 125.99 lakh in 2008-09 to Rs.198.68 lakh in 2009-10. The non-commodity earnings of CIWTC showed a downward growth of (-) 13.8% as it slipped to Rs. 244.9 7 lakh in 2009-10 from 283.51 lakhs in 2008-09. Following graphs gives a picture of long term trend in traffic and earning of CITWC.



23. The maximum cargo carried during 2009-10 was on the Saugar/Haldia Diamond Harbour-Kolkata route with freight volume of 140766 tonnes and freight earnings of about Rs. 158.3 lakh and 119.6 lakh tonne kms and; these three parameters registered an annual growth of 113%, 93% and 99% respectively in 2009-10 over 2008-09.

Haldia-Ghorma Island route had second largest share of 22% in cargo carried (41841 tonnes) by different routes in 2009-10. 75% of the cargo carried by CIWTC was mixed cargo. Boulder was the largest carried commodity with a share of 22% in all commodities carried by CIWTC. Waste oil, POL and Flyash had a mere share of around 1% each in total cargo. Commodity wise share in cargo carried by CITWC in 2009-10 is given in chart below:



IWT ACTIVITIES - STATE GOVERNMENT

24. The number of vessels deployed and volume of cargo carried on Inland Waterways across the reporting States & UTs is given in Table 8.

| Table 8: Number of Inland Water Vessels and Cargo Carried - State wise | | | | | | | | | |
|--|-------------------|-------|-------|-------|-----------------------------------|----------|----------|----------|--|
| | Number of Vessels | | | | Volume of Cargo Carried (thousand | | | | |
| State/IIT | | | | | | tonnes) | | | |
| State/UT | 2006- | 2007- | 2008- | 2009- | 2006- | 2007- | 2008- | 2009- | |
| | 07 | 08 | 09 | 10 | 07 | 08 | 09 | 10 | |
| Andhra Pradesh | ••• | 111 | 111 | 111 | ••• | ••• | ••• | ••• | |
| Assam | 267 | 240 | 240 | | 741.56 | 846.24 | 865.15 | ••• | |
| Bihar | 19 | 21 | 21 | 21 | ••• | ••• | ••• | ••• | |
| Goa | 273 | 221 | 191 | 193 | 14306.0 | 12824.59 | 11901.32 | 13897.38 | |
| Karnataka | 302 | 49 | 49 | 39 | | 611.00 | 159.00 | 986.75 | |
| Kerala | 9060 | 10069 | 9230 | 9756 | 5678.7 | 8637.13 | 5129.01 | 5092.08 | |
| Maharashtra | 512 | 512 | 662 | 691 | 11553.0 | 13056.00 | 9963.00 | 12510.00 | |
| Orissa | 180 | 163 | 155 | 260 | ••• | ••• | ••• | ••• | |
| West Bengal | 2182 | 2245 | 2321 | 2484 | 2935.0 | 3312.0 | 3644.00 | 17705.00 | |
| TOTAL (reporting states) | 12795 | 13631 | 12980 | 13555 | 35214.56 | 39286.96 | 31661.48 | 50191.21 | |

^{...} Not Available

PERFOMANCE OF COMPANIES ENGAGED IN IWT

25. The data received from 34 IWT companies shows that amongst the private companies the maximum number of cargo vessels were held by the Sesa Goa Ltd., Goa followed by Vivada Inland Waterways Ltd. Kolkata AND Eastern Navigation Private Ltd. The Maximum cargo of 6125.86 thousand tonnes was carried by Sesa Goa Ltd Goa.

26. CIWTC Kolkata had the maximum number of powered vessels (292) which carried a cargo of 89.04 thousand tonnes and 10618.6 lakh tonnes kilometres during 2009-10. Hooghly Nadi Jalapath Paribahan Samabaya Samity, Kolkata (44 vessels) carried 20.3 million passengers followed by West Bengal Surface Transport Corporation Ltd.with 23 powered vessels carrying 6.8 million passengers during 2009-10. The cargo/passengers carried and freight collected pertaining to 34 companies is shown in Table No. 5.2.

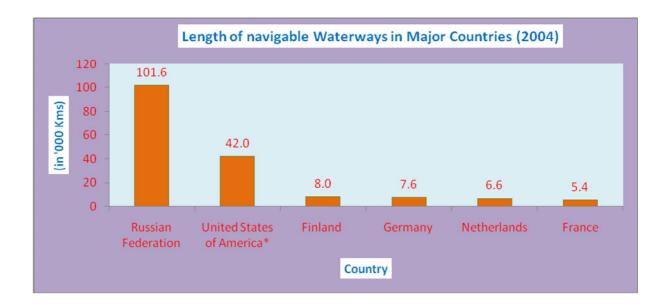
| Table: 9: Top ten Private Companies Cargo moved and Vessels Operated 2009-10 | | | | | | | |
|--|----------------|------------------------------|--|--|--|--|--|
| Name of the Company | No. of Vessels | Cargo moved ('000 tonnes) | | | | | |
| 1. Sesa Goa Ltd. Goa. | 16 | 6125.86 | | | | | |
| 2. S.V.Salgaocar, Goa | 4 | 1581.60 | | | | | |
| 3.D.V.Salgaocar, Goa | 4 | 1500.00 | | | | | |
| 4. Sesa Resources Ltd Goa | 3 | 832.04 | | | | | |
| 5. V.M. Salgaocar Sales International | 2 | 693.60 | | | | | |
| 6.Costa River Transport Pvt. Ltd.,Goa | 3 | 657.97 | | | | | |
| 7. VIVADA Inland Waterways Ltd, Goa | 16 | 570.13 | | | | | |
| 8. Sociedade De Fomento Ind Ltd, Goa | 2 | 547.99 | | | | | |
| 9.M.N. Shipping | 1 | 274.82 | | | | | |
| 10. Sai Waterways Pvt Ltd | 9 | 244.12 | | | | | |

INLAND WATERWAYS TRANSPORT ACCIDENTS

27. The total number of accidents on inland waterways during the year 2009 were 791 out of which 319 were reported in Madhya Pradesh followed by Uttar Pradesh with 127 accidents. The numbers of deaths due to boat mishaps were highest for Madhya Pradesh at 323 followed by Uttar Pradesh at 161 in 2009. A striking feature observed (Table No. 7.1) is that the number of persons killed is more in all the States than the number of persons injured on waterways unlike in the road accidents.

INLAND WATERWAYS IN SELECT COUNTRIES

28. The maximum length of Navigable Inland Waterways belongs to Russian Federation with 101,679 Kms followed by United States of America with 42,000 Kms , Finland with 8,018 Kms, Germany with 7,565 Kms., Netherlands with 6,595 Kms and France 5372 Kms. However, the maximum quantity of Goods carried was in the United States of America with 2662 million tonnes followed by Russian Federation with 104 million tonnes and Germany with 55.2- million tonnes .



Source: Annual Bulletin of Transport Statistics for Europe & North America, 2008 (UN Publication)

^{*} Relates to 2003

SECTION - 1

NAVIGABLE WATERWAYS

AND

INFRASTRUCTURE

(In Kms.)

| SI. No. State/Rivers/Canals/Lakes Total Length of the Rivers/Canals/Lakes in the State 1 2 3 ANDHRA PRADESH (i) Godavari 1530 | avigable Length 4 |
|--|-------------------|
| Rivers/Canals/Lakes in the State 1 2 3 1 ANDHRA PRADESH | 4 |
| 1 ANDHRA PRADESH | |
| | |
| | |
| (i) Godavari 1530 | |
| (") Kdahaa | 171 |
| (ii) Krishna 386 | 35 |
| (iii) Others ** 585 2501 | 585 791 |
| 2. ASSAM | 791 |
| (i) Brahmaputra 2800 | 891 |
| (ii) Borak 900 | 152 |
| (iii) Subansiri | 111 |
| (iv) Dhansiri | 26 |
| (v) Lohit | 132 |
| (vi) Gangadhar | 112 |
| (vii) Sonkosh | 48 |
| (viii) Manas | 48 |
| (ix) Aai | 64 |
| (x) Beki | 56 |
| (xi) Nakhonda | 41 |
| (xii) Pahumara | 40 |
| (xiii) Pagladia | 40 |
| (xiv) Borolia | 24 |
| (xv) Puthimari | 64 |
| (xvi) Dikrang | 41 |
| (xvii) Rangandi | 45 |
| (xviii) Kapil | 102 |
| (xix) Dehing | 160 |
| (xx) Katakhal | 160 |
| (xxi) Sonai | 48 |
| (xxii) Amguri | 16 |
| (xxiii) Mahura | 32 |
| (xxiv) Badri | 25 |
| (xxv) Chiri | 42 |
| (xxvi) Jiri | 64 |
| Total 3700 | 2584 |
| 3. BIHAR | |
| (I) Damodar | |
| (ii) Ganga 510 | 510 |
| (iii) Gandak 300 | 300 |
| (iv) Koshi 233 (v) Ghaghra 100 | 160 |
| ······································ | 100 31 |
| (vi) Sone 226 (vii) Mahananda 140 | |
| | ••• |
| . , | ••• |
| | |
| · · · | |
| | |
| | |
| (xiii) Chandan 100 (xiv) Karamnasha 144 | |
| (xv) Calaminasha (xv) Others 860 | 290 |
| Total 3763 | 1391 |

(In Kms.)

| | | | 2009- | (In Kms |
|---------|-----------------|---------------------------|--|------------------|
| SI. No. | | State/Rivers/Canals/Lakes | Total Length of the Rivers/Canals/Lakes in the State | Navigable Length |
| 1 | | 2 | 3 | 4 |
| | | | | |
| 4 | | GOA | | |
| | (i) | Mandovi | 78 | 65 |
| | (ii) | Zuari | 56 | 45 |
| | (iii) | Mapusa | 26 | 20 |
| | (iv) | Chapora | 34 | 25 |
| | (v) | Tiracol | 29 | 15 |
| | (vi) | Sal | 20 | 15 |
| | (vii) | Others | 17 | 17 |
| | (viii) | Total | 260 | 202 |
| 5 | GUJAR | AT | | |
| | (i) | Narmada | 250 | 50 |
| | (ii) | Tapti | 200 | 25 |
| | (iii) | Ambica | 136 | 30 |
| | (iv) | Auranga | 75 | 10 |
| | (v) | Purna | 141 | 14 |
| 0 | KADNA | Total | 802 | 129 |
| 6 | KARNA | | 00 | 07 |
| | (i) | Sharavathi Tungabhadra | 80 375 | 27 375 |
| | (ii) (iii) | Malaprabha | 230 | 230 |
| | (iii) (iv) | Ghataprabha | 160 | 160 |
| | (v) | Krishna | 325 | 325 |
| | (vi) | Cauvery | 270 | 34 |
| | (vii) | Kabini | 117 | 22 |
| | (viii) | Gurupur | 80 | 20 |
| | (ix) | Gangolli | 48 | 20 |
| | (x) | Bheema | 860 | 125 |
| | (xi) | Udyavara Natravathi | 37 96 | 14 |
| | (xii) (xiii) | Netravathi Kali | 184 | 26 29 |
| | (2111) | Total | 2862 | 1407 |
| 7 | KERAL | | | |
| | (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) | Kuppaxxvim | 82 | 24 |

ms.)

| | | | 2009- | 10 |
|---------|---------------|--|--|--------------------|
| il. No. | | State/Rivers/Canals/Lakes | Total Length of the Rivers/Canals/Lakes in the State | Navigable Length |
| 1 | • | 2 | 3 | 4 |
| | (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 Kallai | 40 22 | 24.8 9.6 |
| | (xix) (xx) | Chaliyar | 22 169 | 9.6 68.4 |
| | (xxi) | Kadalundy | 130 | 43.2 |
| | (xxi) | Tirur | 48 | 9.6 |
| | (xxii) | 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 |
| | | Meenachil | 78 | 41.6 |
| | (xxx) | | | |
| | (xxxi) | Manimala | 90 | 54.4 |
| | (xxxii) | Pamba | 176 | 73.6 |
| | (xxxiii) | Achan coil | 128 | 32 |
| | (xxxiv) | Dallickal | 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 | |
| | (XLI) | Total | 3092 | 845.2 |
| 8 | MAHAR | ASHTRA | 0002 | 040.2 |
| | (i) | Dande River | 2 | 1 |
| | (ii) | Pangere River | 2 | 1 |
| | (iii) | Girye River | 3 | 1 |
| | (iv) | Kajali River | 35 | 5 |
| | | Kalbadevi River | 10 | 2 |
| | (v) | | | |
| | (vi) | Are River | 6 | 1 |
| | (vii) | Jog River | 10 | 5 |
| | (viii) | Kelshi River | 10 | 3 |
| | (ix) | Savitri River(Bankot to Mahad) | 45 | 40 |
| | (x) | Kal River | 6 | 4 |
| | (xi) | Vaitarna River | 24 | 9 |
| | (xii) | Ulhas River | 32.5 | 28 |
| | (xiii) | Mahim River(Bay) | 1.5 | 1 |
| | (xiv) | Amba River | 23 | 20 |
| | (xv) | Patalganga River/Creek (Aware to Kharpada) | 11 | 6.5 |
| | (xvi) | Kundalika River | 16 | 16 |

(In Kms.)

| | | | 2009- | 10 | |
|---------|---------------------------|---|--|--------------------|--|
| SI. No. | State/Rivers/Canals/Lakes | | Total Length of the Rivers/Canals/Lakes in the State | Navigable Length | |
| 1 | • | 2 | 3 | 4 | |
| | (xvii) | Mandad River(Rajpuri to Mandad) | 14 | 10 | |
| | (xviii) | Mhasla River(Turmad to Mhasla) | 9 | 5 | |
| | (xix) | Vashisti River(Dabhol to Govalkot) | 45 | 38 | |
| | (xx) | Jagbudi River(Karambavne to Khed) | 20 | 20 | |
| | (xxi) | Shastri River/Jaigad Creek(Jaigad to Kurudunda) | 45 | 40 | |
| | (xxii) | Rajapur River(Musakazi to Rajapur) | 30 | 30 | |
| | (xxiii) | Vagothan River/Vijaydurg Creek(Vijaydurg to Kharepatan) | 38 | 22 | |
| | (xxiv) | Gad Riv er(Kalaval Creek) | 13 | 7 | |
| | (xxv) | Terekhol River/Creek(Terekhol to Banda) | 28 | 28 | |
| | (xxvi) | Karli River(Malva) | 23 | 13 | |
| | (xxvii) | Others | 129 | 105 | |
| | , | Total | 634 | 466 | |
| 9 | ORISSA | | | | |
| Ū | (i) | Mahanadi | 493 | 199 | |
| | (i) (ii) | Brahmani | 541 | 277 | |
| | (iii) | Baitarani | 344 | 32 | |
| | (ii) (iv) | Subarnarekha | | 50 | |
| | (IV) (V) | Budha Balanga | | 35 | |
| | (v) (vi) | Dhamara | ••• | 20 | |
| | (vi) (vii) | Salandi | | 17 | |
| | (viii) | Panchputra | | 21 | |
| | (ix) | Parnei | ••• | 45 | |
| | (x) | Hatel | | 30 | |
| | | | | 32 | |
| | (xi) (xii) | Bansagadal Hansua | ···· | 37 | |
| | (xiii) | Tirkota | | 18 | |
| | | Jamboo | | 6 | |
| | (xiv) | Gobari | | 16 | |
| | (xv) (xvi) | Ramchandi | | 16 | |
| | (xvi) | Kharansi | ···· | 14 | |
| | (xvii) | | ···· | 14 | |
| | | Batigharia | ···· | 110 | |
| | (xix) (xx) | Birupa Genguti | | 45 | |
| | (xx) (xxi) | Luna | | 37 | |
| | (xxi) | Devi | ••• | 20 | |
| | (xxii) | Pradhi | | 15 | |
| | (xxiii) (xxiv) | Kadha | ···· | 30 | |
| | (XXIV) | Kusavadra | | 25 | |
| | (xxv) | | | 9 | |
| | | Daya Baiya | | 7 | |
| | (xxvii) | Rajua Makara | | <i>1</i> 11 | |
| | (xxviii) | Others ** | | 462 | |
| | (xxix) | Total \$ | 1378 | 462 1650 | |
| 10 | TAMIL I | | 13/0 | 1000 | |
| 10 | | | EO | | |
| | (i) | North Buckingam Canal | 58 | ••• | |
| | (ii) (iii) | Central Buckingam Canal South Buckingam Canal | 7 105 | ••• | |
| | | | 7116 | | |

(In Kms.)

| | | | 2009- | 10 | | |
|---------|---------------------------|---------------------------|--|------------------|--|--|
| SI. No. | State/Rivers/Canals/Lakes | | Total Length of the Rivers/Canals/Lakes in the State | Navigable Length | | |
| 1 | • | 2 | 3 | 4 | | |
| 11 | UTTAF | RPRADESH | | | | |
| | (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 | | |
| | (v) | Dwarka | 129 | 129 | | |
| | (vi) | Bakreswar | 102 | 102 | | |
| | (vii) | Damodar | 437 | 437 | | |
| | (viii) | Dwarekeswar | 103 | 103 | | |
| | (ix) | Silabati | 135 | 135 | | |
| | (x) | Kumari | 347 | 347 | | |
| | (xi) | Ichamati | 232 | 232 | | |
| | (xii) | Others@ | 2064 | 2064 | | |
| | | Total | 4741 | 4593 | | |
| 13 | NAGA | LAND | | | | |
| | (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 | | |
| 1.1 | MIZOS | | 3 31 | 3/3 | | |
| 14 | MIZOR | | 42- | | | |
| | (i) | R. TlawNg (Dhaleswari) | 185 60 | | | |
| | (ii) | R. Kolodyne (Chhimtuipoi) | 138 138 | | | |
| | (iii) | Khawthlang Tuipui | 128 | 40 | | |
| | (iv) | R. Tuichawrg | 108 | 55 | | |
| | | Total | 559 | 293 | | |

^{**} Including Canals.

Source: IWT Dierctorate of states & IWAI.

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

^{... :} Not avaialable

[#] 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.

| Table No. 1.2 | | Infrastructure Facilities Available on National Waterways (As on 31-3-2009) | | | | | | | | | | | | |
|--|---|---|---|-----------------------------------|---|---|---|--|--|--|--|--|--|--|
| | Availa | ability and Capacity of Teri | minals | | | | | | | | | | | |
| Navigational Channel | Depth (Meters) about 330 days in a year | Place | Size of Vessels that can be accomodated (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 | 2.5 | (a) Haldia | 600 | One(Floating) | One EOT crane | One godown of size | | | | | | | | |
| (560 Km) | | | | | of capacity 1 Ton. | 12x30m and open | | | | | | | | |
| | | | | | | storage (1630 sq.m.). | | | | | | | | |
| | | (b) G.R. Jetty (BISN), Kolkata | 600 | One(Floating) | - | Open storage | | | | | | | | |
| | | (c) Botanical garden, Kolkata | 600 | One(Floating) | - | - | | | | | | | | |
| | | (d) Putimari (pakur) | 600 | One(fixed) | - | - | Owned by Farakka Barrage Project. | | | | | | | |
| | | (e) Farakka | 600 | One(fixed) and | - | One covered godown | Both the berth and godown are owned by Farakka Barrage Project | | | | | | | |
| | | | | one (floating) | | | | | | | | | | |
| | | (f)Shantipur | 600 | One(Floating) | | | | | | | | | | |
| | | (g) Katwa | 600 | One(Floating) | | | | | | | | | | |
| 2. Farakka - Patna | 2.0 | (h) Rajmahal(Manglaghat) | 600 | One(Floating) | - | - | Fully operational condition for cargo operation | | | | | | | |
| (460 km) | | (i) Samudarghat(Sahibganj) | 600 | One(Floating) | - | - | - do - | | | | | | | |
| | | (j) Manihari | 600 | One(Floating) | | | - do - | | | | | | | |
| | | (k) Bhagalpur | 600 | One(floating) | - | Open storage | - do - | | | | | | | |
| | | (I) Semaria | 600 | One(floating) | | | - do - | | | | | | | |
| | | (m) Patnazz | 600 | One (floating) and one (fixed) | Pontoon with crane facility and shore crane | Open storage and one godown of 45 x 15 m | Low level permanent berth capable of handling containers and general cargo. Besides storage facility, bunkering facility, weigh bridge etc. and one container crane also available. Project for high level jetty also approved. | | | | | | | |
| 3. Patna-Varanasi (363 km) | 1.5 | (n) Dorigang | 600 | One (Floating) | - | - | | | | | | | | |
| | | (o) Buxer | 601 | One (Floating) | | | | | | | | | | |
| | | (p) Ghazipur/Kaithy | 600 | One (floating) | - | - | | | | | | | | |
| 4. Varanasi-Allahabad | 0.8 | | | | - | | | | | | | | | |
| (237 km) | | (q) Chunar | 600 | One(floating) | - | - | | | | | | | | |
| | | (r) Allahabad | 600 | One (floating) | Pontoon with crane | Open storage | | | | | | | | |
| 1) Floating terminals | with pontoon/crane | can be provided at any location | along waterway o | on demand. | | | | | | | | | | |
| Night navigation a River notices are i | | led between Tribeni and Varanas /monthly. | si | | | | | | | | | | | |
| | | | 6 | | | | | | | | | | | |

| Table No 1.2 Contd | Asset | | | ities Available | on National Wa | aterways (As on 31 | -3-20091 |
|---------------------------|---|------------------------------------|---|-----------------------------|---|---|--|
| Navigational Channel | Depth (Meters) about 330 days in a year | ability and Capacity of Tern Place | Size of Vessels that can be accomodated (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 |
| | | (b) Jogighopa (c) Pandu | 600 | One(floating) One(floating) | Two floating and two shore cranes | Two godowns each of of size 75x20m and | Terminal being developed for cool loading. Construction of one low level permanent berth for handling container and general cargo under progress. |
| 2. Pandu-Neamati (376 km) | 2.0 | (d) Tezpur | 600 | One(floating) | - | - | |
| | | (e) Silghat | 600 | One(floating) | Pipeline for POL | - | |
| | | (f) Jamuguri | 600 | One(floating) | - | - | |
| | | | | | - | - | |
| 3. Neamati-Dibrugarh | 2.0 | (g) Neamati | 600 | One(floating) | - | - | |
| (137 km) | | | | | | | |
| 4. Dibrugarh-Sadiya | 1.0 | (h) Dibrugarh | 600 | One(floating) | - | - | |
| (123 km) | | | | | | | |
| | | | | | = | - | |

Note:

¹⁾ Floating terminals with pontoon/crane can be provided at any location along waterway on demand.

²⁾ Night navigation aids are available between Tribeni and Varanasi

³⁾ River notices are issued on fortnightly/monthly.

| Table No 1.2 Contd | | Infra | structure Facil | ities Available | on National Wa | aterways (As on 31 | -3-2009) |
|--------------------------------|---|-------------------------------------|---|-----------------------|---|---|---|
| | Avai | lability and Capacity of Teri | minals | | | | |
| Navigational Channel | Depth (Meters) about 330 days in a year | Place | Size of Vessels that can be accomodated (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 |
| 3. Champakara Canal (14 km) | 2.0 | (c) Ernakulam GC (Maradu) | 350 | One fixed | One 18 T crane & 3 T Fork lift | Covered storage(20x20m) Open storage(2000 sqm) | |
| | | (d) Kakkanad (CSEZ) | | | - | - | Only Land for terminal acquired |
| 4. Kochi-Alapuzha (63 km) | 2.0 | (e) Vaikkom | 350 | One fixed | One 18 T crane & 3 T Fork lift | Covered storage(20x20m) Open storage(2000 | |
| | | (f) Chertala | 350 | One fixed | One 18 T crane & 3 T Fork lift | Covered | |
| | | (g) Alapuzha | | | | | Land yet to be handed over by State Govt. |
| 5. Alapuzha-Kollam (71 km) | 1.5 | (h)Trikunnapuzha | 350 | One fixed | One 18 T crane & 3 T Fork lift | Covered storage(20x20m) Open storage(2000 sqm) | |
| | | (I)Kayamkulam | 350 | One fixed | One 18 T crane & 3 T Fork lift | Covered storage(20x20m) Open storage(2000 | |
| | | (j) Chavara | | | | • | Only land acquired |
| 6. CPT Area | 2.2 | (k) Kollam (l) willingdon island | 12 TEU | Container Material | | 5000 sqm open storgae | A contauner terminal is under construction These terminals are constructed for containers movement to ICTT, agency has been selected operation of Ro-Ro barge service |
| | 2. £ | (m) Bolgatty island | 12 TEU | Container | 40 T Crane | | operation of the burge service |

Material

through agency storgae

| | Table No 1.3 | Infrastructure | Facilities Available o | n State Waterways (As | on 31-3-2 | (010) | | |
|------------|---------------------------------|--|------------------------------|--|------------------|---|--|--|
| | | Availability and Capacity of Terminals | | | | | | Terminals |
| SI. No. | Navigational Channel | Depth (Meters) | Place | Size of vessels that can be accomodated (DWT)/dimension | No. of berths | cargo handling equip. and their capacity | Type and extent of storage facility available | Remarks |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 1 | ANDHRA PRADESH | NIL | NIL | NIL | NIL | NIL | NIL | NIL |
| 2 | ASSAM* | | | | | | | |
| 3 | BIHAR | 2 metres | (I) (a) Sahebganj- | 134'x31'x2 Nos | 2 Nos. | Nil | Nil | - |
| | | | Manihari | 80'x15'x7"x1No 55x13'3"x4'8"x1 Nos | 2 Nos. | Nil | Nil | - |
| | | | (II) Kahalgaon- Tintanga | 60'x16'x6'x2Nos. | 2 Nos. | Nil | Nil | - |
| | | | (III) Sultanganj - Agwani | 70'x18'x6'x1 No. | 2 Nos. | Nil | Nil | - |
| | | | (IV) (a) Munghyr- Raighat | 56'3"x14'2"x5'9"x1 No. 58'3"x16'4"x5'8"x1 No. 47'2"x12'6"x5'8"x1 No. 59'5"x15'6"x5'6"x1 No. | 2 Nos. | Nil | Nil | - |
| | | | (V) Buxar-Ujirghat | NA 1 No. | 2 Nos. | Nil | Nil | - |
| 4 | GOA | | | | | | | |
| | Panaji Port (River Mandoi) | 3 metres | Panaji | 75 Mtrs Length | 1 | - - | - | Ports jetty being used by vessels calling in the Ports |
| 5 | GUJARAT | - | - | - | - | - | - | - |
| | Mangleshwar-Kabirwad Narmada | 3.5 to 4 Meters | Mangleshwar | Boat | - | NA | NA | NA |
| | Tapi-Magdalla Bridge | 2.5to3.5Meters | Surat | Boat | - | Small Equip. | NA | NA |
| 7 | KARNATAKA | Nil | Nil | Nil | Nil | Nil | Nil | |
| | KERALA* MAHARASHTRA* | - | - | - | - | - | - | - |

| | Table No 1.3 Contd | Infrastruc | ture Facilities Availal | ole on State Waterway | | | | |
|------------|---|-------------------------------|-------------------------|---|------------------|---|--|--|
| | | | | | | Availability | and Capacity of | Terminals |
| SI. No. | Navigational Channel | Depth (Meters) | Place | Size of vessels that can be accomodated (DWT)/dimension | No. of berths | cargo handling equip. and their capacity | Type and extent of storage facility available | Remarks |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 10 | ORISSA Balugaon Sector Balugaon-K.Prasad | Varies bet- ween 2 to | Lake Chalika | 30 ft | 2 | - | NA | Passenger waiting hall is available at Balugaon. Repair of jetties and constructiom are needed. Black wall at Balugaon and Krishnaprasad |
| | Balugaon-Kalijai | 10 metres 2 to 10 Metres | Lake Chalika | 40 ft | 2 | - | NA | waiting hall is not available at Krishnaprasad at present. Block wall at kalijai is available for berthing & landing. Waiting hall is not available at kalijai. |
| | Balugaon-Nuapada | 2 to 4 Metres | Lake Chalika | 30 ft | 2 | - | -do- | No Jetty and waiting hall is available at Nuapada. |
| | Balugaon-Satapada | 2 to 4 Metres | Lake Chalika | 30 ft | 2 | - | -do- | Berthing & landing facilities are available at Satapada. No waiting hall is availing for the passengers at present. |
| | Astrang Sector Nuagarh-Sribantpur | 2 to 10 Metres | River Devi | 26 ft | 3 | - | -do- | No jetty & wating hall is available for the sector. |
| | Chandbali Sector Chandbali-Rajnagar | Varies between 7 to 18 metres | River Baitarani/ | 52 ft | 13 | - | -do- | Jetty & waiting hall are available at Chandbali. The Jetty at Rajnagar washed |
| | Chandbali-Talucha | Varies between 7 to 20 metres | Baitarani/Kharastrota/ | 50 ft | 10 | - | -do- | Jetty at Nalitapatia in the Chandball. Talchua, route has been severely damaged during super cyclone 1999 & Floor 2001. Waiting hall at Nalitapatia is not available |
| | Chandbali-Aradi | Varies between 7 to 18 meters | Brahmani | 35' | 3 | | -do- | Both Jetty and waiting hall is available at Aradi. Both the structures require repair & renovation. |

| | Ī | Table No 1.3 Contd | Infrastruct | | | | | | | | |
|---|------|----------------------|----------------|--|---|------------------|---|---|--|--|--|
| | | | | Availability and Capacity of Terminals | | | | | | | |
| N | | Navigational Channel | Depth (Meters) | Place | Size of vessels that can be accomodated (DWT)/dimension | No. of berths | cargo handling equip. and their capacity | Type and extent of storage facility available | Remarks | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | | |
| 1 | 1 T | TAMILNADU | | - | - | - | - | - | - | | |
| | | | | | | | | | | | |
| 1 | 4 / | ANDAMAN & NICOBAR | | | | | | | | | |
| | | | | | | | | | | | |
| 1 | 15 N | NAGALAND** | | | | | | | | | |
| | 1 | . Tiru River | 1.5 to 8 | Lpmgmatra - Pursutsu Phokungri | - | - | - | - | Under survey. | | |
| 1 | 16 N | MIZORAM # | | | | | | | | | |
| | 1 | . R. Tlawng | 0.5 - 3.00 | (a) Sairang (b) Assam Border | Country Boat Country Boat | - | - | - - | Being hill rivers there are many rapids. Small molotorised boat can navigate in monsoon and small country boat in dry season | | |
| | 2 | . R. Kolodyne | 0.5 - 3.00 | (a) Kawlchaw | Country Boat | - | - | - | -do- | | |
| | • | . D. 141 | 0.5.000 | (b) Ngengpulchhuah | Country Boat | - | - | - | | | |
| | 3 | R. Khawthlang | 0.5 - 3.00 | (a) Marpara (b) Bangladesh Border | Country Boat Country Boat | - | - | - | -do- | | |
| | 4 | . R. Twichawng | 0.5 - 3.00 |)a_ Chawngte | Country Boat | - | - | - | -do- | | |
| | | ū | | (b) Diplibagh | Country Boat | - | - | - | | | |

Data not received.

Source : State Govts.

^{**} pertains to 2007-08 # pertains to 2008-09

SECTION – 2

CARGO MOVED ON

VARIOUS WATERWAYS

Table No. 2.1

Cargo Movement on National Waterways, Goa & Maharashtra Waterways

| SI.No. | Details of Waterway | Distance (Kms) | Cargo Mo Tonr | ved (lakh nes) | TonneKn | ns (in lakh) |
|--------|------------------------------|-------------------|------------------|-------------------|---------|--------------|
| | · | (Kills) | 2008-09 | 2009-10 | 2008-09 | 2009-10 |
| 1 | 2 | 3 | 5 | 4 | 7 | 6 |
| 1 | National Waterway No. I | 1620 | 13.54 | 18.37 | 7068 | 10402 |
| | (Allahabad-Haldia stretch of | | | | | |
| | Ganga – Bhagirathi – Hooghly | | | | | |
| | river system) | | | | | |
| 2 | National Waterway No. II | 891 | 2.31 | 1.83 | 142 | 74 |
| | (Sadiya-Dhubri stretch of | | | | | |
| | Brahmaputra River system) | | | | | |
| 3 | National Waterway No. III | 205 | 7.66 | 6.67 | 109 | 97 |
| | (Kollam-Kottapuram stretch | | | | | |
| | of West Coast Canal along | | | | | |
| | with Champakara Canal | | | | | |
| | and Udyogmandal Canal) | | | | | |
| | Sub Total NWs | 2716 | 23.51 | 26.87 | 7319 | 10573 |
| 4.00 | Goa Waterways | 202 | 457.10 | 544.32 | 19677 | 23405 |
| 5 | Maharashtra Waterways | 453 | 99.63 | 125.1 | 2487 | 3107 |
| | Grand Total | 3371 | 580.24 | 696.29 | 29483 | 37085 |

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

the data received from the Mormugao Port Trust.(MPT)

Maharashtra Maritime Board for Maharashtra Waterways

Table No 2.1

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

(In tonnes)

| SI. No. | River/Stretch | Approxi mate Distance (Kms) | 2007- 08(^) | 2008- 09(^) | 2009- 10(^) | Cargo generally moved |
|------------|---|--------------------------------------|----------------|----------------|----------------|--|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| A . | CIWTC | | | | | |
| 1 | Haldia-Budge-Budge | 74 | | | 3300 | POL, Waste Oil |
| 2 | Kolkata-Bangladesh * | 790 | 1500 | 5100 | 545 | Flyash,Slag, |
| 3 | (I)Saugar-Diamond Harbour/Haldia /Kolkatta/ Kolkatta Internal | 144/80 | 192304 | 66773 | 140766 | Pulses,Logs,Salt,Iron Ore,Steel, Fly Ash,Aluminium block |
| 4 | Kolkata-Karimganj-Badarpur | 1218 | 2807 | 2197 | 2043 | GC, Cement, Fly ash, EdibleOlls, Cement Clinkers. |
| | | | | | | Cement,POL |
| 5 | Bangladesh-Assam-Bangladesh | 690 | 3475 | | О | |
| 6 | Jogighopa-Badopur | 1089 | | | 550 | |
| 7 | Haldia-Gorma Island | 30 | | | 41841 | |
| | Sub Total (A) | | 200086 | 74070 | 189045 | |
| В. | VIVADA IWL | | | | | |
| 1 | Haldia-Kolkata | 100 | 218815 | | | POL. |
| 2 | Haldia-Budge-Budge | 78 | 86705 | 78823 | 209236 | FO, LDO, HSD |
| 3 | Haldia-Kantapukur | 104 | | 17612 | 10955 | FO |
| 4 | Haldia-NSD | | | 103995 | | LO,HSD |
| 5 | Haldia-River Moori | | | 112277 | | FO,HSD, LDO |
| 6 | Budge-Budge-Kolkata | 22 | 16824 | | | POL. |
| 7 | Budge-Budge-NSD | | | 8132 | | HSD/LDO |
| 8 | Budge-Budge-Surinam | 48 | | | 49608 | FO, HSD |
| 9 | Budge-Budge-KPD | | | 659 | | FO, HSD |
| 10 | Budge-Budge-Haldia | 78 | 17085 | 12122 | 3931 | LDO |
| 11 | Haldia-Namkhana | | | 3569 | | LDO |
| | Sub Total (B) | | 291548 | 337189 | 273730 | |

.. : Not available.

* : The route is a link between NW-I & NW-II through Banagladesh.

Cargo handled in this route is taken in NW-I.

^ : Data for the year 2007-08 , 2008-09 and 2009-10 is taken from monthly returns.

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

(In tonnes)

| | | Approxi | | | | (In tonnes) | | | | | |
|---------|--------------------------------|---------------------------|----------------|----------------|----------------|---------------------------|--|--|--|--|--|
| SI. No. | River/Stretch | mate Distance (Kms) | 2007- 08(^) | 2008- 09(^) | 2009- 10(^) | Cargo generally moved | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | | | | | |
| C. | OTHER PRIVATE OPERATORS | | | | | | | | | | |
| 1 | TIRUPATI VESSEL(P)LTD. | | | | | | | | | | |
| 1 | Klokatt-Mongla (Bangla desh) | | | | 7034 | Flyash | | | | | |
| 2 | Kolkatta-Khulna (Bangla desh) | | | | 45288 | Flyash | | | | | |
| 3 | Kolkatta-Narayanjung (B'Desh) | | | | 361146 | Flyash | | | | | |
| 2 | RELIANCE EXPORT CORPORATION | | | | | | | | | | |
| 1 | Kolkata-Narayanganj(B'Desh) | | | | 9233 | IronOre | | | | | |
| 2 | Haldia-Narayanganj(B'Desh) | | | | 10534 | Flyash | | | | | |
| 3 | Maitrayee Shipping & Logistics | | | | | | | | | | |
| 1 | Kolkatta-Khulna (B'Desh) | 424 | | | 8711 | Flyash | | | | | |
| 2 | Kolkatta-Narayanjung (B'Desh) | 758 | | | 41629 | Flyash | | | | | |
| 3 | Kaldia-Khulna(B'Desh) | 446 | | | 6440 | Flyash | | | | | |
| 4 | Haldia-Narayanjung (B'Desh) | 758 | | | 15945 | Flyash | | | | | |
| 4 | P K Shipping | | | | | | | | | | |
| 1 | Kolkata-Khulna (B. Desh) | 424 | | | 1308 | Flyash | | | | | |
| 2 | Kolkata-Narayanganj(B. Desh) | 758 | | | 138017 | Flyash, Slg, MS wired rod | | | | | |
| 3 | Kolkatta-Karimgung | 1318 | | | 980 | Flyash | | | | | |
| 5 | SOHOM COMMERCIAL | | | | | | | | | | |
| 1 | Kolkata- Khulna(B' Desh) | 424 | | | 881 | Flyash | | | | | |
| 2 | Kolkata-Narayanganj (B' Desh) | 758 | | | 47106 | Flyash | | | | | |
| 6 | RENAISSANCE IMPEX Pvt Ltd | | | | | | | | | | |
| 1 | Kolkata-Narayanganj (B'Desh) | 758 | | | 41541 | Slag,Flyash,MS wire Rod | | | | | |
| 2 | Haldia-Khulna(B. Desh) | 446 | | | 4518 | Flyash | | | | | |
| 3 | Haldia-Narayanganj | 780 | | | 12999 | Flyash, Slag | | | | | |
| 7 | R.S. SHIPPING | | | | | | | | | | |
| 1 | Kolkata-Narayanganj | 758 | | | 782 | HP Seprator, MS Wire Rod | | | | | |
| 2 | Kolkatta-Pandu | 1518 | | | 926 | Machinery | | | | | |
| 8 | GLOBAL SHIPPING | | | | | | | | | | |
| 1 | Kolkata-Khulna | 424 | | | 1959 | Flyash | | | | | |
| 2 | Kolkata-Narayanganj(B' Desh) | 758 | | | 18198 | Flyash | | | | | |
| 3 | Haldia-Mongla(B' Desh) | 413 | | | 2323 | Flyash | | | | | |
| 4 | Kolkata-Mongla(B' Desh) | 413 | | | 9814 | Flyash | | | | | |
| 5 | Haldia-Narayanganj(B' Desh) | 780 | | | 1268 | Flyash | | | | | |

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

(In tonnes)

| SI. No. | River/Stretch | Approxi mate Distance (Kms) | 2007- 08(^) | 2008- 09(^) | 2009- 10(^) | Cargo generally moved |
|---------|--------------------------------|--------------------------------------|----------------|----------------|----------------|--|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 9 | COASTAL CONNEXIONS | | | | | |
| 1 | Kolkata-Narayanganj(B' Desh) | 758 | | | 64342 | Flyash |
| 2 | Haldia-Narayanganj | 780 | | | 5966 | Flyash |
| 3 | Haldia-Khulna | 446 | | | 7972 | Flyash |
| 10 | KANISHKA SHIPPING LINES | | | | | |
| 1 | Kolkata-Narayanganj(B' Desh) | 758 | | | 19817 | Flyash |
| 2 | Haldia-Narayanganj | 780 | | | 767 | Flyash |
| | (B' Desh) | | | | | |
| 3 | Kolkata-Khulna(B' Desh) | 424 | | | 3944 | Flyash |
| 11 | Eastern Navigation Pvt Ltd., K | olkatta | | | | |
| 1 | Kolkatta-Jamnia | 1065 | | | 1216 | Boiler Drum, Stator(ODC) |
| 2 | Kolkatta-Barh | 751 | | | 286 | Boiler Drum, Stator(ODC) |
| 3 | Kolkata- Ballia | 923 | | | 1116 | Stator(ODC) |
| 4 | Kolkatta-Fatur | 854 | | | 690 | Flyash |
| 12 | A.K.Navigation | | | | | |
| 1 | Kolkata- Narayanganj | | | | 4025 | Flyash |
| 2 | Kolkatta-Khulana | | | | 1703 | Flyash |
| 13 | Desha International | | | | | |
| 1 | Haldia- Narayanganj | | | | 176611 | Flyash |
| 2 | Kolkata-Narayanganj | | | | 208097 | Flyash, Coal Durt, Slag |
| 3 | Haldia-Kulna | | | | 10750 | |
| 4 | Kolkatta-Kulana | | | | 7055 | |
| 5 | Kolkatta-Mongla | | | | 780 | |
| 6 | Haldia-Mongla | | | | 685 | |
| 14 | Reliance Enterprise | | | | | |
| 1 | Kolkata-Narayanganj | | | | 43049 | Flyash |
| 2 | Haldia-Narayanganj | | | | 10005 | Flyash |
| 3 | Haldia-Kulna | | | | 1848 | Flyash |
| 4 | Kolkatta-Kulna | | | | 3885 | Flyash |
| 5 | Kolkatta-Mongla | | | | 580 | . ,, == |
| 15* | Private Operators | | | | 000 | |
| | Kolkata-Narayanganj | | 811553 | 810908 | | Flyash,Non Alloy Steel,Wire Rod,Slag,ODC packages,ironOre,Steel Sheet,rice, Clay lamps |
| | Kolkata-Khulna | | 115034 | 88967 | | Fly Ash,Gypsum |
| | Kolkata-Mongla | | 28237 | 34237 | | Flyash,Slag |
| | Narayanganj-Pandu | | 1100 | | | Cement |
| | Kolkata-Karimganj | | 2214 | | | Flyash |
| | Zakiganj-karimganj | | 602 | | | Flyash |
| | Karimgani-Kolkata | | 3386 | | | Clinker |
| | Kolkata-pandu | | 300 | 1441 | | Edibleoil |
| | Sub Total (C) | _ | 962426 | 935553 | 1363769 | |

* : Names of Private operators not available

Table No 2.1 Contd....

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

(In tonnes)

| SI. No. | River/Stretch | Approxi mate Distance (Kms) | 2007- 08(^) | 2008- 09(^) | 2009- 10(^) | Cargo generally moved |
|---------|---|--------------------------------------|-------------------------------|-----------------|------------------|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| D | IWAI | | | | | |
| 1 | M.V. RAJGOPALACHARI | | | | | Cement, Stonechip, Bitumen, Jute, Bales, Coal |
| 1 | Rajmahal-Kolkata | | 925 | 876 | | SilicaSand |
| 2 | Rajmahal-Haldia | | | | | Iron Ore |
| 3 | Haldia-Patna | | 1535 | 325 | | Edible-Oil |
| 4 | Haldia-Guwhati | | | | | Edible Oil |
| 5 | Haldia-Karimganj | | | 516 | | Bitumin |
| 2 | M.V.LALBAHADURSHATRI | | | | | |
| 1 | Rajmahal-Kolkata | | 250 | | | SilicaSand, China Glay |
| 2 | Haldia-Patna | | 638 | | | Edible-Oil |
| 3 | Kolkatta-Karimgunj | | | 229 | | SoneSand |
| 4 | Rajmahal-Haldia | | | | | Iron Dust |
| 5 | Haldia-Karimganj | | 237 | | | Edible Oil |
| 3 | M.V.Homi Bhabha | | | | | |
| 1 | Sahibgunj-Patna | | | 745 | | Iron-dust |
| 2 | Haldia-Patna | | 1684 | 423 | | Edible-Oil |
| 3 | Rajmahal-Kolkata | | 1337 | 560 | | Chinaclay,Silica Sand |
| 4 | Haldia-Karimganj | | | | | Edible Oil |
| 4 | MV Vishweshsariya | | | | | |
| 1 | Haldia-Varansi | | 590 | | | CDSB Oil |
| 5 | MV Rabindra Nath Tagore | | | | | |
| 1 | Haldia-Karimganj | | | | | Edible Oil |
| 2 | Sahibgunj-Patna | | | 285 | | Stone chips |
| 6 | D.B.Sucheta | | | | | |
| 1 | Rajmahal-patna | | 907 | | | Stone chips |
| 2 | Sahibgunj-Patna | | | 2717 | | |
| 7 | Private Operator | | | | | |
| 1 | Haldia-Semaria | | 375 | | | |
| 2 | Haldia-Patna | | | 473 | | ODC |
| 3 | Kolkata-Ballia | | | 337 | | |
| 8 | Cargo handled at Patna Termina | al | | | | |
| 1 | Haldia-Patna | | | | 300 | Edible Oil and others |
| 2 | Kolkatta-Karimganj | | | | 300 | flyash |
| 3 | Haldia_Pandu | | | | 1134 | Edibleoil |
| 4 | Patna-Kolkatta | | | | 283 | Silicasand |
| 5 | Samdaghat-Patna | | | | 8551 | Stonechips |
| | Sub Total (D) Total (NW-I) (A+B+C+D) | - | 8478 1317395 Not availa | 7486 1510419 | 10568 1837112 | |

| Table No 2.1 Contd | Details of Cargo Mov (National Waterway | | ional Wate BRAHMAPU | | | (In tonnes) |
|--------------------|--|--------------------------------------|------------------------|----------------|----------------|---|
| SI. No. | River/Stretch | Approxi mate Distance (Kms) | 2007- 08(^) | 2008- 09(^) | 2009- 10(^) | Cargo generally moved |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| A . | CIWTC | 700 | | | | |
| 1 | Kolkata-Banladesh # | 790 | | 5100 | 545 | Fly Ash, slag |
| 2 | Bangladesh-Assam-Bangladesh i | 440 | 3475 | | | Cement,POL |
| | Sub Total | | 3475 | 5100 | 545 | |
| В. | Other PVt.Operators | | | | | |
| 1 | Silghat-Kolkata | 1711 | 1268 | | | HSD |
| 2 | Narayanganj-Pandu | 665 | 1000 | | | Cement |
| 3 | Silighat-Baghabari | 590 | 3436 | 1169 | | HSD |
| 4 | Kolkata-Jogighopa | 1392 | | 882 | 166 | Boiler with accessories,, Seprator(ODC) |
| 5 | Kolkata-Pandu | 1535 | | | 237 | Shed/Valve/Rubber(ODC) |
| 6 | Kolkata-Tejpur | 1693 | | | 689 | Main Shed (ODC), Main Volve Turbine Runner(ODC) |
| | Sub Total | | 5704 | 2051 | 1092 | |
| С | IWTD Assam | | 1298410 | 224158 | * | Goods |
| D | Unorganised Sector | | | | 181168 | Goods |
| E | IWAI Vessel | | | | | |
| 1 | Haldia-Pandu | | | | | |
| 2 | Jagighopa-Badapur | 1120 | | | 200 | Bamboo |
| 3 | Kolkata-Pandu | 1535 | | | 336 | Edibleoil |
| | Sub Total(D+E) | | 1298410 | 224158 | 181704 | |

Source : Inland Waterways Authority of India / CIWTC

... : Not available.

Total (NW-II)(A+B+C+D+E)

: Also shown in movement on NW I.

*: Data of IWT Directortae, Govt of Assam not included

1307589 231309 183341

Table No 2.1 Contd....

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

(In tonnes)

| SI. No. | River/Stretch | Approxi mate Distance (Kms) | 2007- 08(^) | 2008- 09(^) | 2009- 10(^) | Cargo generally moved |
|---------|---------------------------------|--------------------------------------|----------------|----------------|----------------|--|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| A. | CUANDAKADA CANAL | | | | | |
| 1 | CHAMPAKARA CANAL KSINC | | | | | |
| ' | Cochin Port-FACT-CD | 21.5 | 210071 | 207015 | 31195 | Raw Sulphur, Rock Phosphate & Phosphoric Acid etc |
| 2 | LOTS Shipping & Trading | 21.0 | 210071 | 207010 | 01100 | raw edipital, recor i neopriate a i neopriene rela etc |
| _ | Cochin Port-FACT-LD | 21.5 | 45092 | | | Raw Sulphur, Rock Phosphate & Phosphoricacid |
| | Cochin Port-Cochin Shipyard | 4 | 2447 | | | Steel |
| | Cochin Port-FACT-CD | 21.5 | | 748 | 121086 | Raw Sulphur, Rock Phosphate & Phosphoric Acid |
| | | | | | | & Stone aggregates |
| 3 | Kerala Backwater Navigation Co | 21.5 | | | 37676 | Rock Phosphate, Sulphur |
| | Sub Total | - | 210819 | 254554 | 189957 | |
| B. | UDYOGMANDAL CANAL | | | | | |
| 1 | LOTS Shipping & Trading* | | | | | |
| · | Cochin Port FACT-UD | 20 | 71983 | 162059 | 163860 | Zibframe, Sulphur, Furnance oil |
| | Cochin-Port-Vallarapadam | 20 | | | 19791 | Stone aggregate |
| | Cochin Port-Binani Zinc Ltd. | 20 | 52783 | | | furnance oil, Zinc, Sulphur |
| | BPCL/IOC FACT PD | 20 | | | 14684 | Stone aggregate, Furnance oil |
| | Alwa MULAVUKADUD | 10 | | | 6751 | Aggregate |
| 2 | KSINC* | | | | | |
| 2 | Cochin Port-FACT UD | 20 | | | 10169 | Rock Phosphate , Sulphur |
| | | | | | | |
| 3 | Kerla Back wtare Navigation | | | | | |
| | Fact Willingdon Island Fact UD | 20 | | | 22558 | Sulphur. |
| | Sub Total | | 124766 | 181850 | 218022 | |
| C. | THE WEST COASTAL CANAL | | | | | |
| 1 | KSINC Ltd*. | | | | | POL, Coal |
| | Fine Arts Jetty- Vypeen | 4 | 287930 | 247630 | 176600 | Potable water |
| | ErnaKulum terminal-Cochin port | 5 | 20412 | 43830 | 34376 | POL |
| | Ernakulum Vypeen Island | 4 | 20412 | -3000 | 22800 | Potable water |
| | Cochin port Ships | 5 | | | 6768 | POL |
| 2 | | | | | | |
| | Travancore Cements Ltd. | | | | | |
| | Vaikom- Chitramangalam | 20 | 29200 | 38350 | 18650 | Lime shell with clay& othe rimpurities |
| 3 | Lots Shipping & Trading Compa | anv | | | | |
| J | Fact engg works Cochin shipyard | | | | 24 | Tank |
| | Sub Total | | 337542 | 329810 | 259218 | |
| | Total (NW-III) | | 673127 | 766214 | 667197 | |
| | GRAND TOTAL (NW-I+NW-II+N) | W-III) | | 2351821 | | |

Source : Inland Waterways Authority of India.

: 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)

| | iransport Corporation (Ciw | (1G) | |
|---------|------------------------------|------------------------------|-----------------------------|
| 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 |

Source : CIWTC

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

Cargo Carried And Freight Earned by CIWTC-Commodity-wise

| | | 200 | 7-08 | 2008- | 09 | 2009 | 9-10 |
|------------|--------------------------|-------------------|---------------------------|-------------------|---------------------------|-------------------|---------------------------|
| SI. No. | Commodity | Tonnes Carried | Freight Earned (Rs. | Tonnes Carried | Freight Earned (Rs. | Tonnes Carried | Freight Earned (Rs. |
| | | | Lakh) | | Lakh) | | Lakh) |
| 1 | 2 | 7 | 8 | 7 | 8 | 7 | 8 |
| 1 | Fly Ash | 1500 | 1.65 | 3747 | 24.02 | 2043 | 17.00 |
| 2 | Pol | 1975 | 4.89 | - | - | 1100 | 2.35 |
| 3 | Cut Bamboo | - | - | - | - | 550 | 3.02 |
| 4 | Iron Ore | 1781 | 320 | - | - | - | - |
| 5 | Slag | - | - | - | - | 545 | 2.86 |
| 6 | Waste Oil | - | - | - | - | 2200 | 5.24 |
| 7 | Aluminium Block | - | - | 800.00 | 1.22 | - | - |
| 8 | Boulder | - | - | - | - | 41841 | 9.89 |
| 9 | Cement/W.Cement | 1500 | 2.91 | - | - | - | - |
| 10 | Cement Clinkers | 2307 | 4.91 | - | - | - | - |
| 11 | Peas | - | - | 30100.00 | 36.18 | - | - |
| | Pet Cake/Personal Effect | | | | | | |
| 12 | | - | - | - | - | - | - |
| 13 | E.Oil | 500 | 4.63 | 550 | 5.10 | - | - |
| 14 | Misc. | 190523 | 231.08 | 38873 | 59.47 | 140766 | 158.28 |
| | SUB TOTAL | 200086 | 253.27* | 74070 | 125.99* | 189045 | 198.64* |

^{*} this relates to commodity-wise earnings

The Non Commodity Earnings are as under:

Activity

| Vessel hire, Godown | - | 152.07 | - | 283.51 | - | 235.99 |
|----------------------------|--------|--------|-------|--------|--------|--------|
| Rent, Storage ,Towage etc. | - | - | - | - | - | - |
| SUB TOTAL | - | 152.07 | - | 283.51 | - | 244.39 |
| GRAND TOTAL | 200086 | 405.34 | 74070 | 409.50 | 189045 | 434.63 |

| SI. | Route | Distance | Commodity | | Tonnes Carr | ied | Freight | Earned(Rs.i | n Lakh) | Tonne/Kr | ns(in Lakh) F | Performed |
|-----|---------------------|--------------|-----------------|---------|-------------|---------|---------|-------------|---------|----------|---------------|-----------|
| No. | | (in Kms) | | 2007-08 | 2008-09 | 2009-10 | 2007-08 | 2008-09 | 2009-10 | 2007-08 | 2008-09 | 2009-10 |
| 1 | 2 | 3 | 4 | 6 | 7 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 1 | Kolkata - | 446 - | Fly Ash | 1500 | 2100 | - | 1.65 | 10.17 | - | 11.70 | 9.37 | - |
| | Bangladesh | 780 | Salt | - | - | - | - | - | - | - | - | - |
| | - | | Slag | - | 3000 | 545 | - | 13.8 | 2.86 | - | 13.38 | 4.25 |
| | | | Accessories | - | - | - | - | - | - | - | - | - |
| | | | TOTAL | 1500 | 5100 | 545 | 1.65 | 23.97 | 2.86 | 11.70 | 22.75 | 4.25 |
| 2 | Bangladesh - | 446 - | Jute | - | - | - | - | - | - | - | - | - |
| | Kolkata | 780 | Machinery | - | - | - | - | - | - | - | - | - |
| | | | Towage Charges | - | - | - | - | - | - | - | - | - |
| | | | TOTAL | - | - | - | - | - | - | - | - | - |
| | Kolkata-Bangladesh | | | | | | | | | | | |
| | Kolkata | | TOTAL | 1500 | 5100 | 545 | 1.65 | 23.97 | 2.86 | 11.70 | 22.75 | 4.25 |
| 3 | Haldia-Budge-Budge | | Waste Oil | 2200 | _ | _ | 2.91 | _ | 5.24 | 10.95 | _ | _ |
| Ŭ | Tididia Daage Daage | | Pol | 1100 | _ | _ | 4.89 | _ | 2.35 | 12.84 | _ | 1.64 |
| | | | | 1100 | | | 1.00 | | 2.00 | .2.0 | | 0.82 |
| | Haldia-Budge-2 | | TOTAL | 3300 | - | - | 7.80 | - | 7.59 | 23.79 | - | 2.46 |
| 4 | Karimganj | 1218- | Edible Oil | 500 | 550 | - | 4.63 | 5.1 | - | 6.09 | 6.7 | - |
| | 0 , | 1248 | Fly Ash | _ | 1647 | 2043 | _ | 13.85 | 17 | _ | 20.55 | 25.33 |
| | | | TOTAL | 500 | 2197 | 2043 | 4.63 | 18.95 | 17 | 6.09 | 27.25 | 25.33 |
| 5 | Karimganj - | 1218- | Cement clinkers | 2307 | _ | _ | 4.91 | _ | _ | 28.80 | - | _ |
| | Kolkata | 1248 | Personal Effect | _ | _ | _ | _ | _ | _ | _ | - | _ |
| | | | TOTAL | 2307 | _ | _ | 4.91 | _ | _ | 28.80 | - | - |
| | Kolkata-Karimganj-K | olkata | TOTAL | 2807 | 2197 | 2043 | 9.54 | 18.95 | 17 | 34.89 | 27.25 | 25.33 |
| 6 | Haldia-Ghormalsland | 417- 1060 | Boulders | - | - | 41841 | - | - | 9.89 | - | - | 7.03 |
| | | | TOTAL | _ | _ | 41841 | | _ | 9.89 | 4.74 | | 7.03 |

| Tab | ole No 3.3 Contd | C | ommodity-wise, Ro | ute-wise Car | go Carried, F | reight Earne | d and Tonne | Kms. Perfor | med by CIW1 | C - 2007-08 | to 2009-10 | |
|-----|---------------------|----------|-------------------|--------------|---------------|--------------|-------------|--------------|-------------|-------------|---------------|-----------|
| SI. | Route | Distance | Commodity | | Tonnes Carı | ried | Freigh | t Earned(Rs. | in Lakh) | Tonne/Kı | ms(in Lakh) l | Performed |
| No. | | (in Kms) | | 2007-08 | 2008-09 | 2009-10 | 2007-08 | 2008-09 | 2009-10 | 2007-08 | 2008-09 | 2009-10 |
| 1 | 2 | 3 | 4 | 6 | 7 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 7 | Lighterage | 44-144 | Peas | | 30100 | - | | 36.18 | - | | 28.48 | - |
| | Operation at Saugar | | Iron Ore | 1781 | - | - | 3.20 | - | - | 1.42 | - | - |
| | /Haldia Diamond | | Salt (in bags) | - | - | - | - | - | - | - | - | - |
| | Harbour-Kolkata | | Misc. | 190523 | 35873 | 140766 | 231.08 | 45.67 | 158.28 | 166.60 | 31.57 | 119.7 |
| | | | TOTAL | 192304 | 65973 | 140766 | 234.28 | 81.85 | 158.28 | 168.02 | 60.05 | 119.7 |
| 8 | Jogihhopa-Baobapur | | Cut Bamboo | - | 800 | 550 | - | 1.22 | 3.02 | - | 0.02 | 5.99 |
| | Internal | | | | | | | | | | | _ |
| | | | TOTAL | - | 800 | 550 | - | 1.22 | 3.02 | - | 0.02 | 5.99 |
| 9 | Misc. | | | | | | | | | | | |
| | Tug Hire and | | | | | | | | | | | |
| | Godown Rent | | | - | - | - | 152.07 | 283.51 | 235.99 | - | - | |
| | | | Grand Total | 200086 | 74070 | 189045 | 405.34 | 409.5 | 434.63 | 238.40 | 110.07 | 164.76 |

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

Income And Expenditure Of C.I.W.T.C.

(For The Year Ending 31st March)

| | | 1 | | (Rs. lakhs) |
|--------|---------------------------------------|---------|---------|-------------|
| SI.No. | Item | 2008 | 2009 | 2010 |
| 1 | 2 | 3 | 4 | |
| Α. | INCOME | 1844.78 | 2111.49 | 2135.68 |
| (i) | Earnings (Operational) | 371.81 | 220.77 | 251.82 |
| (ii) | Earnings (Others) | 1472.97 | 1890.72 | 1883.86 |
| В | EXPENDITURE | 1872.19 | 2031.31 | 1992.32 |
| (i) | Materials & Stores Consumed | 77.91 | 70.52 | 75.94 |
| (ii) | Decrease/Increase in Work in Progress | - | 60.13 | - |
| | Employees Remuneration & Benefits | 777.60 | 875.92 | 931.22 |
| (iv) | Repairs & Maintenance | 144.16 | 92.42 | 92.18 |
| (v) | Power & Fuel | 84.16 | 74.44 | 72.53 |
| (vi) | Other Expenses | 390.09 | 414.43 | 573.54 |
| (vii) | Interest | - | - | - |
| (viii) | Depreciation | 369.53 | 367.52 | 356.46 |
| (ix) | Provisions | 136.84 | 180.24 | - |
| (x) | Transfer to other Heads of Accounts | -108.10 | -104.31 | -109.65 |
| С | Profit/Loss (A-B) | -27.41 | 80.18 | 143.36 |

Source : CIWTC

Source-wise Earning of CIWTC

| | Source-wise Earning of G | olw 10 | | (Rs. in lakh |
|--------|-------------------------------------|----------|---------|--------------|
| SI.No. | Name of Service | | | |
| | | 2008-09 | 2008-09 | 2009-10 |
| 1 | 2 | 3 | 4 | 4 |
| | A.Earnings (Operational) | | | |
| (i) | Transportation & Allied Activities: | | | |
| | Freight | 250.63 | 122.54 | 188.52 |
| | Dredging | _ | - | - |
| | Ferries & Charter | 121.18 | 98.23 | 63.3 |
| | Sales pending finalisation | | | - |
| | TOTAL (ii) | - 274 04 | | |
| | TOTAL A (i & ii) | 371.81 | 220.77 | 251.82 |
| | B.Earnings (Others) | 371.81 | 220.77 | 251.82 |
| | Investment/one time grant | | | |
| | Short Term Deposit | - | - | - |
| | Interest on: | 526.35 | 879.43 | 724.41 |
| | | | | |
| | Mobilisation Amount | - | - | - |
| | Sunderban | - | - | - |
| | Conservancy Amount | - | - | - |
| | Port Maintenance | - | - | - |
| | Sale of Scrap | - | - | - |
| | Rent | 146.53 | 154.55 | 161.44 |
| | Surplus on sale of assets | - | - | - |
| | Retired from Operation | - | - | - |
| | Miscellaneous Receipts | 800.09* | 856.74* | 998.01 |
| | Profit on exchange | _ | _ | - |
| | TOTAL B | 1472.97 | 1890.72 | 1883.86 |
| | TOTAL (A+B) | | | |
| | | 1844.78 | 2111.49 | 2135.68 |

Financial Position of CIWTC

(Rs. in Lakh)

| | | | (Rs. In Lakn) | _ |
|-----|--|------------|---------------|-------------|
| SL | | Year | | |
| No. | Item | 2007-08 | 2008-09 | 2009-10 |
| 1 | 2 | 3 | 4 | 4 |
| A. | LIABILITIES | | | · |
| | | | | |
| | (a) Paid up capital | 13048.48 | | 13048.48 |
| | (b) Reserves & Surplus(Capital Reserve) | 10909.93 | 10909.93 | 10909.93 |
| | (c) Borrowings | | | |
| | i) From Govt. of India | | | |
| | ii) From others | _ | _ | _ |
| | (d) Trade dues and other current liabilities (inclu- | _ | _ | _ |
| | ding provisions) and interest accrued thereon | 19520.77 | 19246.85 | 19520.77 |
| | TOTAL (A) | | | |
| | TOTAL (A) | 43479.18 | 43205.26 | 43479.18 |
| В. | ASSETS | | | |
| | (e) Gross Asset | 11119.71 | 11119.83 | 11119.83 |
| | (f) Less Depreciation | 6425.35 | 6792.73 | 7149.19 |
| | (g)Less Provision | _ | _ | _ |
| | (h) Net Fixed Assets (e-f-g) | 4694.36 | 4327.10 | 3970.64 |
| | (i) Capital work in progress | 535.89 | 475.85 | 475.85 |
| | (j) Investment | | | |
| | (k) Current Assets, | 11970.62 | 12632.93 | 13015.79 |
| | Loans and Advances | | | |
| | (I) Miscellaneous expences | 14298.68 | 25769.38 | 26016.90 |
| | and losses not written off | | | |
| | TOTAL (B) | 31499.55 | 43205.26 | 43479.18 |
| C. | WORKING CAPITAL | | | |
| | (m) Working Capital (k-d) | -4429.48 | -6613.92 | -6504.98 |
| | (n) Additional provision | | | |
| | for Gratuity | _ | - | - |
| | (o) Total Working Capital | 4404.96 | -7058.76 | -6504.98 |
| | Capital employed (h+o) | 9099.32 | -2731.66 | -2534.34 |
| | Net worth (a-l) | (-)1250.20 | (-)12720.9 | (-)12968.42 |

Source: CIWTC

SECTION – 4

IWT ACTIVITIES -

STATE - WISE

| Table | No 4.1 | Number o | f IWT Vessels | With Valid Cert | ificate of Su | rveyBy | Type (As o | n 31st M | arch) | | | | |
|-------|-------------------|----------|---------------|---------------------------|------------------------|-------------------------|-----------------|---------------------|--------------|-----------|--------|--------------------------|----------------|
| SI. | State/ | | | Self Propelled | | | | | | Self Prop | | | |
| No. | UT/Year | Cargo | Passe nger | Cargo cum Passenger | Tugs and Pushers | Total (Col.3 to6) | Dumb Barges | Dumb Tank ers | Dumb Flat | Boats | Others | Total (Col.8 to12) | Grand Total |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 1 | Andhra Pradesh | | | | | | | | | | | | |
| ' | 2007 | | | | | | | | | | | | |
| | | | ••• | | ••• | | ••• | | ••• | 47 | | | 444 |
| | 2008 | ••• | | 43 | ••• | 43 | ••• | | | 17 | 51 | 68 | 111 |
| | 2009 | | | 43 | | 43 | | ••• | | 17 | 51 | 68 | 111 |
| | 2010 | ••• | ••• | 43 | ••• | 43 | ••• | | | 17 | 51 | 68 | 111 |
| 2 | Assam | | 400 | | _ | | | | | | | | |
| | 2007 | ••• | 128 | 46 | 7 | 181 | 20 | ••• | 42 | 24 | ••• | 86 | 267 |
| | 2008 | ••• | 116 | 44 | 7 | 167 | 18 | | 31 | 24 | | 73 | 240 |
| | 2009 | ••• | 116 | 44 | 7 | 167 | 18 | | 31 | 24 | ••• | 73 | 240 |
| | 2010 | | ••• | | ••• | | ••• | | | | ••• | | ••• |
| 3 | Bihar | | | | | | | | | | | | |
| | 2007 | | 13 | 2 | | 15 | 2 | | | 2 | | 4 | 19 |
| | 2008 | | 13 | 2 | | 15 | 4 | | | 2 | | 6 | 21 |
| | 2009 | | 13 | 2 | | 15 | 4 | | | 2 | | 6 | 21 |
| | 2010 | | 13 | 2 | | 15 | 4 | | | 2 | | 6 | 21 |
| 4 | Goa | | | | | | | | | | | | |
| | 2007 | 273 | | | | 273 | | | | | | | 273 |
| | 2008 | 221 | | ••• | | 221 | | | | | | | 221 |
| | 2009 | 191 | | | | 191 | | | | | | | 191 |
| | 2010 | 193 | | ••• | | 193 | | | | | | | 193 |
| 5 | Karnataka | | | | | | | | | | | | |
| | 2007 | | 35 | | | 35 | | | | 193 | 74 | 267 | 302 |
| | 2008 | | | 33 | | 33 | | | | 16 | | 16 | 49 |
| | 2009 | | | 33 | | 33 | | | | 16 | | 16 | 49 |
| | 2010 | | | 21 | | 21 | | | | 18 | | 18 | 39 |
| 6 | Kerala | | | | | | | | | | | | |
| | 2007 | 54 | 182 | 410 | 7 | 653 | ••• | | | 7094 | 1313 | 8407 | 9060 |
| | 2008 | 75 | 656 | 35 | 15 | 781 | 1 | | 13 | 3631 | 1068 | 9288 | 10069 |
| | 2009 | 66 | 598 | 33 | 15 | 712 | 1 | | 26 | 7466 | 1025 | 8518 | 9230 |
| | 2010 | 99 | 589 | 30 | 14 | 732 | 1 | | 25 | 7766 | 1232 | 9024 | 9756 |
| 7 | Maharashtra | | | | | | | | | | | | |
| • | 2007 | 277 | 235 | | | 512 | | | | | | | 512 |
| | 2007 | | 235 | ••• | 277 | 512 | ••• | ••• | | ••• | ••• | | 512 |
| | | | | | 411 | | ••• | | | | ••• | | |
| | 2009 | | 251 | ••• | | 662 | ••• | | | | ••• | ••• | 662 |
| _ | 2010 | | 258 | ••• | 433 | 691 | ••• | | | | ••• | ••• | 691 |
| 8 | Orissa | | 400 | | | 400 | | | | | | | |
| | 2007 | ••• | 180 | ••• | ••• | 180 | ••• | | | | ••• | | 180 |
| | 2008 | ••• | 163 | ••• | ••• | 163 | ••• | ••• | ••• | ••• | ••• | ••• | 163 |
| | 2009 | | 155 | | | 155 | | | | | | | 155 |
| | 2010 | | 260 | | | 260 | | | | | | | 260 |
| 9 | West Bengal | | | | | | | | | | | | |
| | 2007 | 23 | 264 | 5 | 40(A) | 332 | 557 | | | 1293 | | 1850 | 2182 |
| | 2008 | 23 | 252 | 5 | 51(A) | 331 | 574 | | | 1340 | | 1914 | 2245 |
| | 2009 | 23 | 256 | 7 | 54(A) | 340 | 579 | | | 1402 | | 1981 | 2321 |
| | 2010 | 23 | 260 | 5 009 and 2010 res | 63 | 413 | 611 vailable | | | 1460 | | 2071 | 2484 |

Table No 4.2 Number of Passengers and Cargo Carried By Inland Water Vessels (Year Ending 31st March)

| | | | Water Vessels (Year E | inding 31st March) | | |
|--------------|---------------|------|---|--|---|---------------------------------------|
| SI. No. | State/UT/Y | ear | 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 Prades | h | | | | |
| | | 2007 | 0 | 0 | 0 | 0 |
| | | 2008 | | | | |
| | | 2009 | | | | |
| | | 2010 | | | | |
| 2 | Assam | | | | | |
| | | 2007 | 53 | 198 | 741.56 | 2439.23 |
| | | 2008 | 33 | 190 | 846.24 | 25944.10 |
| | | 2009 | 33 | 190 | 865.15 | 26553.15 |
| • | Bihar | 2010 | | | | |
| 3 | Binar | 0007 | | | | |
| | | 2007 | | | ••• | |
| | | 2008 | 2 | 13 | ••• | |
| | | 2009 | 2 | 13 | | |
| 4 | Goa(a) | 2010 | 2 | 13 | | |
| | | 2007 | 273 | - | 14306.04 | |
| | | 2008 | 221 | - | 12824.59 | |
| | | 2009 | 191 | - | 11901.32 | |
| | | 2010 | 193 | | 13897.38 | |
| 5 | Karnataka | | | | | |
| | | 2007 | - | 302 | | 10800.00 |
| | | 2008 | 49 | 49 | 611 | 1101.31 |
| | | 2009 | 49 | 49 | 159 | 1135.93 |
| c | Kerala | 2010 | 39 | 39 | 987 | 1227.86 |
| 6 | Reidia | 0007 | 57 | 570 | 5070.70 | 04400.05 |
| | | 2007 | 57 | 572 | 5678.73 | 24192.25 |
| | | 2008 | 91 | 669 | 8637.14 | 13110.23 |
| | | 2009 | 66 | 576 | 5129.01 | 23469.44 |
| 7 | Maharashtra | 2010 | 66 | 615 | 5092.08 | 24508.40 |
| | | 2007 | | | 11553.00 | 14551.00 |
| | | 2008 | | | 13056.00 | 15186.00 |
| | | 2009 | | | 9963.00 | 16005.00 |
| | | 2010 | | | 12510.00 | 16832.00 |
| 8 | Orissa | | | | | |
| | | 2007 | | 10 | | 115 |
| | | 2008 | | 10 | | 109 |
| | | 2009 | | 10 | | 103 |
| • | West Barrel | 2010 | | 14 | | 122 |
| 9 | West Bengal | 2007 | E 4 | 204 | 2025/5 | 54770.00 |
| | | 2007 | 54 | 264 | 2935(b) | 54770.00 |
| | | 2008 | 50 | 252 | 3312(b) | 52577.00 |
| | | 2009 | 50 | 256 | 3644(b) | 58044.00 |
| <i>(</i>) = | | 2010 | rmuggo Port for Iron Oro move | 260 | 17705(b) | 62624.00 |

⁽a) Excludes traffic reported by Marmugao Port for Iron Ore movement which is 27.40 million tonnes in 2007-08, 33.80 million tonnes in 2008-09 and 40.53 million tonnes in 2009-10.

(b) No. of vehicles carried LCT 37285, 43437 and 39770 for the year 2007-08, 2008-09 and 2009-10 respectively.

SECTION - 5

IWT ACTIVITIES -PRIVATE COMPANIES/UNDERTAKINGS

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

| | | | Self P | ropelled | | Non-Self |
|---------|-------------------------------|---------------------|--------------------|---------------------|----------------------|------------------------|
| | Company/ | Туре | of vessel | | ng capacity | Propelled |
| SI. No. | Undertaking and Year | Cargo (No.) | Passenger (No.) | Cargo(in Tonnes) | Passenger(in No.) | (Dumb Barges) (No.) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1 | S.V.Salgaocar, Goa | | | | • | |
| | 2007 | 3 | | 1224 | | |
| | 2008 | 4 | | 1214 | | |
| | 2009 | 4 | | 1236 | | |
| | 2010 | 4 | | 1581 | | |
| 2 | D.V.Salgaocar, Goa | • | | | | |
| | 2007 | 3 | | 1255 | | |
| | 2008 | 4 | | 1229 | | ••• |
| | 2009 | 4 | | 1178 | | |
| | 2010 | 3 | | 1500 | | |
| 3 | V.M.Salgaocar Sales In | | | | | |
| | 2007 | 2 | | 540 | | |
| | 2008 | 2 | | 823 | | |
| | 2009 | 2 | | 650 | | |
| | 2010 | 2 | ••• | 693 | ••• | ••• |
| 4 | Sesa Resource Ltd Goa | | ••• | 000 | • | ••• |
| • | 2007 | 4 | | 7150 | | |
| | 2008 | 3 | ••• | 5300 | • | ••• |
| | 2009 | 3 | ••• | 5300 | ••• | ••• |
| | 2010 | 3 | ••• | 5300 | ••• | ••• |
| 5 | Sesa Goa Ltd. Goa | 3 | ••• | 5500 | ••• | ••• |
| 3 | 2007 | 17(0) | | 20117/b) | | |
| | 2007 | 17(a) 16 | ••• | 30117(b) | ••• | ••• |
| | | | ••• | 32506 | ••• | ••• |
| | 2009 2010 | 16 17 | ••• | 32506 32506 | ••• | ••• |
| 6 | Sociedade De Fomento | | ••• | 32300 | ••• | ••• |
| O | 2007 | 2 | | 2434 | | |
| | 2007 | 2 | ••• | | ••• | ••• |
| | | | ••• | 2434 | ••• | ••• |
| | 2009 | 2 | ••• | 2434 | ••• | ••• |
| 7 | 2010 | 2 | ••• | 2434 | ••• | ••• |
| , | CIWTC, Kolkata. | 00 | | 10170 | | 20 |
| | 2007 | 39 | ••• | 12179 | ••• | 62 |
| | 2008 | 12(b) | ••• | 5648 | ••• | 26 |
| | 2009 | 8(b) | ••• | 2936 | ••• | 24 |
| 7 | 2010 Indo-Swiss Trading Co | 10(b) | ••• | 4982 | ••• | 22 |
| , | _ | . Noikata. | • | 110 | 070 | |
| | 2007 | - | 2 © | 118 | 270 | ••• |
| | 2008 | | 2 © | 118 | 270 | ••• |
| | 2009 | | 2 © | 118 | 270 | ••• |
| • | 2010 | um 4el 16elleri | 2 © | 118 | 270 | ••• |
| 9 | Vivada Inland Waterwa | - | | | | |
| | 2007 | 11 | 2 | | ••• | ••• |
| | 2008 | 11 | 4 | | ••• | ••• |
| | 2009 | 9 | 7 | | ••• | ••• |
| | 2010 | 9 | 7 | | | |

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

| | | | Non-Self | | | | |
|---------|-------------------------|-----------------|--------------------|---------------------|----------------------|------------------------|--|
| e | Company/ | | of vessel | Carryir | ng capacity | Propelled | |
| SI. No. | Undertaking and Year | Cargo (No.) | Passenger (No.) | Cargo(in Tonnes) | Passenger(in No.) | (Dumb Barges) (No.) | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | |
| 4.5 | M4 P | | | | | | |
| 10 | West Bengal Surface Tr | | | | | | |
| | 2007 | 3 | 20 | ••• | | ••• | |
| | 2008 | 3 | 27 | | | | |
| | 2009 | 3 | 27 | | | ••• | |
| | 2010 | 3 | 20 | | ••• | | |
| 11 | Hooghly Nadi Jalapath | Paribahan Sam | nabaya | | | | |
| | Samity, Kolkata. | | | | | | |
| | 2007 | - | 41 | | | ••• | |
| | 2008 | | 41 | | | | |
| | 2009 | | 45 | | | | |
| | 2010 | | 44 | | | | |
| 12 | West Bengal Tourism D | evelopment Co | orporation | | | | |
| | limited, Kolkata. | | | | | | |
| | 2007 | - | 3 | | | | |
| | 2008 | | 3 | | | | |
| | 2009 | | 3 | | ••• | | |
| | 2010 | | 4 | | ••• | | |
| 13 | Eastern Navigation (P) | Ltd., Kolkata. | | | | | |
| | 2007 | 3 | 2 | | ••• | | |
| | 2008 | 5 | 2 | | | | |
| | 2009 | 8 | 1 | | | | |
| | 2010 | 9 | 3 | | | | |
| 14 | Pradeep Boating Comp | | | | | | |
| - | 2007 | 2 | | | | | |
| | 2008 | 2 | | | | | |
| | 2009 | 2 | •••• | ••• | | ••• | |
| | 2009 | 2 | | | | | |
| 15 | Government of West Be | | •••• | ••• | ••• | ••• | |
| . • | Department, Kolkata. | J Juli 13111 | | | | | |
| | 2007 | | 1 | | | | |
| | | ••• | 1 | ••• | ••• | ••• | |
| | 2008 | ••• | 1 | ••• | ••• | ••• | |
| | 2009 | ••• | | ••• | ••• | ••• | |
| 16 | 2010 | orn Itd Budg | | ••• | ••• | ••• | |
| 16 | Hindustan Petroleum C | orp. Lia., Buag | , o Duuye, | | | | |
| | West Bengal. | A | | | | | |
| | 2007 | 1 | | ••• | ••• | ••• | |
| | 2008 | 1 | | ••• | | ••• | |
| | 2009 | 1 | | ••• | | ••• | |
| | 2010 | 1 | | | ••• | ••• | |
| 17 | K. S. Singhee | | | | | | |
| | 2007 | 2 | | ••• | | ••• | |
| | 2008 | 2 | | | | | |
| | 2009 | ••• | | | | | |
| | 2010 | 1 | | | ••• | | |
| 18 | Costa River Transport F | Pvt Ltd., Goa. | | | | | |
| | 2007 | 3 | | 5122 | ••• | | |
| | 2008 | 3 | | 5122 | | | |
| | 2009 | 3 | | 5122 | | | |
| | 2009 | 3 | ••• | 5122 | ••• | ••• | |
| | 2010 | <u> </u> | 29 | J 122 | ••• | ••• | |

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

| | | | Self Propelled | | | | | |
|----------|------------------------------|-----------------|--------------------|---------------------|----------------------|------------------------|--|--|
| SI. No. | Company/ | | f vessel | Carryi | ng capacity | Propelled | | |
| 31. 140. | Undertaking and Year | Cargo (No.) | Passenger (No.) | Cargo(in Tonnes) | Passenger(in No.) | (Dumb Barges) (No.) | | |
| | 2 | 3 | 4 | 5 | 6 | 7 | | |
| 19 | Ghatal Station Navigati | on (P) Ltd., Kc | | 1 | | • | | |
| | 2007 | | 3 | | | ••• | | |
| | 2008 | | 3 | | | | | |
| | 2009 | | 3 | | | | | |
| | 2010 | | | | | | | |
| 20 | Diamond Harbour Muni | | | | | | | |
| | 2007 | | 6 | | | | | |
| | 2008 | | 7 | | | | | |
| | 2009 | *** | 7 | | | | | |
| | 2010 | | • | | | | | |
| 21 | Karya Autota Pvt. Ltd. I | | | | ••• | ••• | | |
| | 2007 | 4 | 1 | | | | | |
| | 2008 | 3 | 1 | | | | | |
| | 2009 | | | | | | | |
| | 2009 | | | | | | | |
| 22 | 2010 Chandan Nagar Munici | nality Kolkata | | ••• | ••• | ••• | | |
| 22 | 2007 | | 3 | | | | | |
| | | | 3 | | ••• | ••• | | |
| | 2008 | | 5 | | ••• | ••• | | |
| | 2009 | ••• | 5 | | ••• | ••• | | |
| 23 | 2010 | ••• | 5 | ••• | ••• | ••• | | |
| 23 | Jain Navigation | 1 | 2 | | | | | |
| | 2007 | 2 | 1 | | ••• | ••• | | |
| | 2008 | | 1 1 | ••• | ••• | ••• | | |
| | 2009 | 2 | | ••• | ••• | ••• | | |
| 24 | 2010 | | | ••• | ••• | ••• | | |
| 24 | Shree Mangesh Enterp | | | 99470 | | | | |
| | 2007 | 1 | ••• | 88470 | • • • | ••• | | |
| | 2008 | 1 | ••• | 790 700 | | | | |
| | 2009 | 1 | | 790 | | | | |
| 0= | 2010 | | ••• | ••• | ••• | ••• | | |
| 25 | Sai Waterways Pv t. Ltd | | | 2222 | | | | |
| | 2007 | 2 | ••• | 3829 | ••• | ••• | | |
| | 2008 | 2 | | 3829 | ••• | ••• | | |
| | 2009 | 2 | ••• | 3829 | ••• | ••• | | |
| | 2010 | 2 | | 3829 | ••• | ••• | | |
| 26 | Rashmi Ore Carriers P | | | 1011 | | | | |
| | 2007 | 1 | ••• | 1314 | ••• | ••• | | |
| | 2008 | 1 | | 1314 | ••• | ••• | | |
| | 2009 | 1 | ••• | 1314 | ••• | ••• | | |
| | 2010 | 1 | | 1314 | ••• | ••• | | |
| 27 | Goa Ore Carriers | | | | | | | |
| | 2007 | | | | ••• | ••• | | |
| | 2008 | 3 | | 3200 | | ••• | | |
| | 2009 | 3 | | 3200 | ••• | ••• | | |
| | 2010 | ••• | ••• | ••• | ••• | ••• | | |
| 28 | M. N. Shipping | | | | | | | |
| | 2007 | | | | | | | |
| | 2008 | 1 | ••• | 1177 | ••• | ••• | | |
| | 2009 | 1 | | 1177 | | | | |
| | 2010 | 1 | 30 | 1177 | ••• | | | |

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

| | | Janies/ Vilue | Self Propelled | | | | | | |
|----------|--------------------------------|-----------------|--------------------|---------------------|----------------------|------------------------|--|--|--|
| SI. No. | Company/ | Туре о | f vessel | Carryii | ng capacity | Propelled | | | |
| JI. 140. | Undertaking and Year | Cargo (No.) | Passenger (No.) | Cargo(in Tonnes) | Passenger(in No.) | (Dumb Barges) (No.) | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | | | |
| 20 | Kathari Oyersaa Briya | to Limited | | | | | | | |
| 29 | Kothari Overseas Priva 2007 | te Limited 1 | | 1277 | | | | | |
| | 2007 | 1 | | 1893 | | | | | |
| | 2009 | 1 | | 1893 | | | | | |
| | 2010 | 1 | | 1893 | | | | | |
| 30 | Mayur Shipping Private | Limied | | | | | | | |
| | 2007 | 1 | - | 1179 | | | | | |
| | 2008 | 1 | | 1179 | | | | | |
| | 2009 | 1 | - | 1179 | | | | | |
| | 2010 | 1 | | 1179 | | | | | |
| 31 | Cabral & Co. Pvt. Limite | ed | | | | | | | |
| | 2007 | 1 | - | 1073 | | | | | |
| | 2008 | | | ••• | | | | | |
| | 2009 | | | | | | | | |
| | 2010 | | | | | | | | |
| 32 | Vaibhavi Shipping Pvt.I | Ltd. | | | | | | | |
| | 2007 | 9 | | 19120 | | | | | |
| | 2008 | 9 | | 19050 | | | | | |
| | 2009 | 9 | | 19050 | | ••• | | | |
| | 2010 | | | | | ••• | | | |
| 33 | Vaishnavi Shipping Co. | Pvt.Ltd. | | | | | | | |
| | 2007 | | | ••• | | | | | |
| | 2008 | 1 | | 1232 | | | | | |
| | 2009 | 1 | | 1232 | | ••• | | | |
| | 2010 | 1 | | 1232 | | | | | |
| 34 | Vasco Ore Carriers | | | | | ••• | | | |
| | 2007 | | | | | | | | |
| | 2008 | 1 | | 49327 | | | | | |
| | 2009 | 1 | | 53160 | | | | | |
| | 2010 | 1 | | 85500 | | | | | |
| 35 | Sanghi Brothers (Indor | | | | | | | | |
| | 2007 | | | | | | | | |
| | 2008 | | | | | | | | |
| | 2009 | | | | | | | | |
| | 2010 | 5 | | 6476 | 9 | | | | |

^{...} Not available.

⁽a) Includes one one Passenger Launch

⁽b) Includes 3 oil Tankers & 5 Twin Screw Tugs for the year 2008, 2 oil tanker , 4 Twin Screw Tugs for year 2009 and 5 Pusher Tug and 3 Oil Tanker 2010.

[©] Passengers vessels can carry cargo also.

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

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

| | | viiuiiiy vviiipaiiig5 († 6 | | | | Cargo | Carried | Passenger (| Carried |
|--------|------------------------|----------------------------|---------------------|--------------------|-------------------|-------------------------|--------------------------|-----------------------|-----------|
| 01.41 | Company/Undertaking | Time of Marrie | No. of Powered | Distance | Freight Collected | | | . asserige | - a. 110u |
| SI.No. | and Year | Type of Vessels | Vessels Employed | Travelled (Kms) | (Rs.in Lakh) | 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 | | | | | | | | |
| | 2007 | Cargo | 3 | 35 | 783.36 | 1E+06 | 42.84 | | |
| | 2008 | Cargo | 4 | 35 | 794.22 | 1E+06 | 42.50 | | |
| | 2009 | Cargo | 4 | 35 | 840.48 | 1E+06 | 43.26 | | |
| | 2010 | Cargo | 4 | 35 | 1059.67 | 2E+06 | 55.36 | | |
| 2 | D. V. Salgaocar, Goa | | | | | | | | |
| | 2007 | Cargo | 3 | 35 | 803.32 | 1E+06 | 43.93 | ••• | |
| | 2008 | Cargo | 4 | 35 | 803.63 | 1E+06 | 43 | ••• | |
| | 2009 | Cargo | 4 | 35 | 801.31 | 1E+06 | 41.24 | ••• | |
| | 2010 | Cargo | 4 | 35 | 1005.00 | 2E+06 | 52.50 | ••• | |
| 3 | V.M.Salgaocar Sales In | ternational | | | | | | | |
| | 2007 | Cargo | 2 | 35 | 537.60 | 840000 | 29.4 | ••• | |
| | 2008 | Cargo | 2 | 35 | 538.37 | 823200 | 28.81 | | |
| | 2009 | Cargo | 2 | 35 | 442.27 | 650400 | 22.76 | | |
| | 2010 | Cargo | 2 | 35 | 464.71 | 693600 | 24.27 | | |
| 4 | Sesa Resources Ltd G | oa | | | | | | | |
| | 2007 | Cargo | 4 | 273 | - | 803583 | 219.37 | | |
| | 2008 | Cargo | 3 | 273 | - | 739198 | 201.8 | ••• | |
| | 2009 | Cargo | 3 | 273 | - | 797337 | 217.67 | | |
| | 2010 | Cargo | 3 | 273 | - | 832042 | 227.15 | | |
| 5 | Sesa Goa Ltd. Goa. | | | | | | | | |
| | 2007 | Cargo | 15 | 90 | | 4E+06 | 359.77 | | |
| | 2008 | Cargo | 16 | 100 | 88.48 | 485048 | 48.5 | | |
| | 2009 | Cargo | 16 | 100 | 123.40 | 6E+06 | 620.00 | | |
| | 2010 | Cargo | 16 | 100 | 420.50 | 6E+06 | 612.58 | ••• | |
| 6 | Sociedade De Fomento | Ind. Ltd., Goa | | | | | | | |
| | 2007 | Cargo | 2 | 110 | (a) | 444393 | 48.88 | | |
| | 2008 | Cargo | 2 | 110 | (a) | 539652 | 59.36 | | |
| | 2009 | Cargo | 2 | 110 | (a) | 642995 | 70.73 | | |
| | 2010 | Cargo | 2 | 110 | (a) | 547998 | 60.28 | | |
| 7 | C.I.W.T.C., Kolkata. | | | | | | | | |
| | 2007 | Cargo/Tug/Spcs/Dbs | 42 | 8360 | 578.46 | 220322 | 1841.89 | ••• | |
| | 2008 | Cargo/Tug/Spcs/Dbs | 266 | 7896 | 405.34 | 200374 | 1582.15 | | |
| | 2009 | Cargo/Tug/Spcs/Dbs | 94 | 7448 | 409.50 | 74070 | 551.67 | ••• | |
| | 2010 | Cargo/Tug/Spcs/Dbs | 292 | 5617 | 434.63 | 189045 | 1061.86 | | |
| 8 | Indo-Swiss Trading Co | .Pvt. Ltd., Kolkata | | | | | | | |
| | 2007 | Pass. | 2 | 1 | 91.70 | | | 2292000 | |
| | 2008 | Pass. | 2 | 1 | 95.66 | | | 239200 | |
| | 2009 | Pass. | 2 | 1 | 95.15 | | | 2378000 | |
| | 2010 | Pass. | 2 | 1 | 95.94 | | | 2298000 | |
| 9 | VIVADA Inland Waterw | = | | | | | | | |
| | 2007 | Cargo/Tug/Pass/LCT | 13 | ••• | 1776.00 | 690000 | ••• | 14000 | |
| | 2008 | Cargo/Tug/Pass/LCT | 15 | ••• | 2025.00 | 544000 | | 15850 | |
| | 2009 | Cargo/Tug/Pass/LCT | 16 | | 2534.23 | 362600 | | 32020 | |
| | | Cargo/Tug/Pass/LCT | 16 | | 2757.70 | 570130© | | 30620 | |

Table No 5.2 Contd..... Cargo/Passenger Carried And Freight Collected By Responding Companies (Year Ending 31st March)

| | | | No. of | | Fue i sule t | Cargo | Carried | Passenger | Carried |
|--------|---------------------------------|-----------------------|--|--------------------------------|---|-------------------------|--------------------------|-----------------------|---------|
| SI.No. | Company/Undertaking and Year | Type of Vessels | No. of Powered Vessels Employed | Distance Travelled (Kms) | Freight Collected (Rs.in Lakh) | Cargo (in Tonnes) | TKms (in millions) | Passenger (in No.) | PKms |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 10 | W. Bengal Surface Trai | nsport Corporation Lt | d., Kolkata | | | | | | |
| | 2007 | Pass./LCT | 23 | | 601.47 | 9720 | | 17000000 | |
| | 2008 | Pass./LCT | 30 | | 615.1 | 9810(D) | | 6300000 | |
| | 2009 | Pass./LCT | 30 | | 676.41 | 11770(b) | | 6930000 | |
| | 2010 | Pass./LCT | 23 | | 525.33 | 13709(b) | | 6810000 | |
| 11 | Hooghly Nadi Jalapath | Paribahan Samabaya | Samity, Ko | lkata | | | | | |
| | 2007 | Pass. | 41 | | 927.48 | | | 24058000 | |
| | 2008 | Pass. | 41 | | 981.30 | | | 23867000 | |
| | 2009 | Pass. | 45 | | 982.42 | | | 23900000 | |
| | 2010 | Pass. | 44 | | 958.40 | | | 20300000 | |
| 12 | West Bengal Tourism [| Development Corpn. I | td., Kolkata | 1 | | | | | |
| | 2007 | Pass. | 3 | | 96.08 | | | 9100 | |
| | 2008 | Pass. | 3 | | 110.77 | | | 11250 | |
| | 2009 | Pass. | 3 | | 115.16 | | | 10530 | |
| | 2010 | Pass. | 4 | | 115.68 | | | 12040 | |
| 13 | Eastern Navigation (P) | | ata | | | | | | |
| | 2007 | Cargo/Tug/Pass. | 5 | | 61.9 | 10200 | | 5800 | |
| | 2008 | Cargo/Tug/Pass. | 7 | | 71.5 | | | 5850 | |
| | 2009 | Cargo/Tug/Pass. | 9 | | 108.30 | | | | |
| | 2010 | Cargo/Tug/Pass. | 12 | | 123.92 | | | | |
| 14 | Pradeep Boating Comp | | | ••• | | ••• | ••• | ••• | ••• |
| | 2007 | Tugs | 2 | | 5.00 | 10000 | | | |
| | 2008 | Tugs | 2 | | 94.25 | 23112 | ••• | | ••• |
| | 2009 | Tugs | 2 | | 103.55 | 25425 | | | ••• |
| | 2010 | Tugs | 2 | ••• | 18.00 | 9000 | ••• | ••• | ••• |
| 15 | Government of W. Ben | - | | | 10.00 | 3000 | | | ••• |
| 13 | 2007 | Pass. | 1 | | | | | | |
| | 2008 | Pass. | 1 | | | | | | |
| | 2009 | Pass. | 1 | | ••• | ••• | ••• | ••• | ••• |
| | 2010 | Pass. | • | ••• | | | ••• | ••• | ••• |
| 16 | Hindustan Petroleum C | | dae W Ben | nal | | | ••• | ••• | ••• |
| 10 | 2007 | | - | _ | 22 55 | 24060 | | | |
| | 2007 | Tug | 1 1 | ••• | 33.55 32 | 24960 19200 | ••• | ••• | |
| | | Tug | | ••• | | | ••• | ••• | |
| | 2009 | Tug | 1 | ••• | 33.50 | 20700 | ••• | | |
| 47 | 2010 | Tug | 1 | ••• | 33.75 | 17280 | ••• | | ••• |
| 17 | K. S. Singhee | | 0 | 7.0 | | | | | |
| | 2007 | T(Oth | 2 | 7.2 | | ••• | ••• | | ••• |
| | 2008 | Tug/Others | 2 | ••• | 7.5 | ••• | ••• | | ••• |
| | 2009 | Tug/Others | | | | • • • • | ••• | ••• | • • • • |
| 40 | 2010 | Tug | 1 | | 7.00 | | • • • • | | |
| 18 | Costa River Transport | | • | 400 | | | 000.00 | | |
| | 2007 | Cargo | 3 | 130 | 1411.75 | 2207582 | 286.98 | | • • • • |
| | 2008 | Cargo | 3 | 130 | 1411.75 | 2207582 | 286.98 | | |
| | 2009 | Cargo | 3 | 130 | 1541.38 | 2E+06 | 304.29 | | |
| | 2010 | Cargo | 3 | | 451.03 | 657970 | | ••• | |
| 19 | Ghatal steam Navigatio | | _ | | . - | | | | |
| | 2007 | Pass. | 3 | | 22.45 | | | 1994000 | |
| | 2008 | Pass. | 3 | | 22.33 | | | 2545500 | |
| | 2009 | Pass. | 3 | | 2.32 | | • • • • | 131500 | |
| | 2010 | Pass. | 3 | ••• | 3016.00 | ••• | ••• | 1439000 | |
| 20 | Diamond Harbour Mun | | | | | | | | |
| | 2007 | Pass. | 6 | | 4.23 | | | 244100 | |
| | 2008 | Pass. | 7 | | 1.55 | | | 881170 | |
| | 2009 | Pass. | 6 | | 9.45 | | | 230010 | |
| | 2010 | Pass. | 7 | | 4.23 | | | 545500 | |

Table No 5.2 Contd.... Cargo/Passenger Carried And Freight Collected -By Responding Companies (Year Ending 31st March)

| 1 21 | Company/Undertaking and Year | Type of Vessels | Powered Vessels | Distance Travelled | Collected | Caraa | TKms | | |
|-------------|---------------------------------|----------------------------|--------------------|-----------------------|-----------------|-------------------------|------------------|-----------------------|---------|
| 21 | | | Employed | (Kms) | (Rs.in Lakh) | Cargo (in Tonnes) | (in millions) | Passenger (in No.) | PKms |
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 22 | Karya Autota Pvt. Ltd., K | | - | | | | | | |
| 22 | 2007 | Cargo/Pass. | 5 | | 33.30 | | | | |
| 22 | 2008 | Cargo/Pass. | 4 | • • • • | 7.00 | | | ••• | |
| 22 | 2009 2010 | Cargo/Pass. Cargo/Pass. | | | | | | ••• | ••• |
| | Chandan Nagar Municipa | • | | | | ••• | | ••• | |
| | 2007 | Pass. | 3 | | 4.07 | | | 1215500 | |
| | 2008 | Pass. | 3 | | 4.71 | | | 1148000 | |
| | 2009 | Pass. | 5 | | 8.51 | | | 81000 | |
| | 2010 | Pass. | 5 | | 10.18 | | | 1021000 | |
| 23 | Jain Navigation | | | | | | | | |
| | 2007 | Tugs/Pass | 3 | | 7.05 | 4100 | | | |
| | 2008 | Tugs/Pass | 3 | | 25 | 4100 | | | |
| | 2009 | Tugs/Pass | 1 | | 19.00 | | | | |
| | 2010 | Tugs/Pass | 2 | | 67.00 | | | | |
| 24 | Shree Mangesh Enterpris | | | | | | | | - |
| | 2007 | Cargo | 1 | 60 | 77.38 | 126000 | 7.56 | | |
| | 2008 | Cargo | 1 | 60 | 73.25 | 113856 | 6.83 | | |
| | 2009 | Cargo | 1 | 60 | 80.69 | 122236 | 7.33 | ••• | • • • • |
| 25 | 2010 Sai Watanyaya Byt I td | Cargo | | ••• | | | ••• | | |
| 25 | Sai Waterways Pvt. Ltd. | Corac | 2 | 60.75 | 4.4 | 215400 | 115 | | - |
| | 2007 2008 | Cargo | 2 2 | 60-75 60-75 | 11 11 | 215400 | 14.5 14.5 | | |
| | | Cargo | | | | 215400 | | | |
| | 2009 2010 | Cargo | 2 2 | 60-75 | 1.08 | 215400 | 14.53 | ••• | |
| 26 | Rashmi Ore Carriers Pvt. | Cargo | 2 | 60-75 | 1.17 | 244120 | 16.48 | ••• | • • • • |
| 20 | 2007 | Cargo | 1 | 45 | 115.51 | 165263 | 7.43 | | ••• |
| | 2008 | Cargo | 1 | 45 45 | 115.08 | 234896 | 10.50 | ••• | |
| | 2009 | Cargo | 1 | 45 45 | 158.72 | 208000 | 9.36 | | |
| | 2010 | Cargo | 1 | 45 45 | 174.18 | 214050 | 9.63 | | |
| 27 | Goa Ore Carriers | Oargo | ' | 45 | 174.10 | 214030 | 9.03 | ••• | |
| | 2007 | | | | | | | | |
| | 2008 | Cargo | 3 | 45 | 714 | 1020000 | 45.9 | | |
| | 2009 | Cargo | 3 | 45 | 714 | 1020000 | 45.9 | ••• | |
| | 2010 | Cargo | · · | .0 | | .02000 | .0.0 | ••• | ••• |
| 28 | M.N. SHIPPING | 232 | | | | | | | |
| | 2007 | | | | | | | | |
| | 2008 | Cargo | 1 | 60-70 | 155.52 | 248034 | 16.12 | | |
| | 2009 | Cargo | 1 | 60-70 | 155.52 | 248.34 | 16.12 | | |
| | 2010 | Cargo | 1 | 60 | 189.13 | 274827 | 16.49 | | |
| 29 | Kothari Overseas Private | | | | | | | | |
| | 2007 | Cargo | 1 | 60 | 111.82 | 192222 | 11.53 | - | |
| | 2008 | Cargo | 1 | | 110 | 170000 | | | |
| | 2009 | Cargo | 1 | | 77.00 | 117300 | | | |
| | 2010 | Cargo | 1 | | 96.00 | 151300 | | | |
| 30 | Mayur Shipping Pvt. Limi | ited | | | | | | | |
| | 2007 | Cargo | 1 | 45 | 136.88 | 145227 | 6.53 | | - |
| | 2008 | Cargo | | | | | | | |
| | 2009 | Cargo | 1 | 45 | 127.36 | 190919 | 8.59 | | |
| | 2010 | Cargo | 1 | 45 | 153.53 | 190919 | 8.59 | | |
| 31 | Cabral & Co. Ltd. | | | | | | | | |
| | 2007 | Cargo | 1 | 50 | 134.26 | 208000 | 10.4 | | |
| | 2008 | - | | | | • • • • | | | |
| | 2009 | Cargo | | | | | | | |
| 00 | 2010 | | | | | | | | |
| 32 | Vaibhavi Shipping Pvt. L | | • | | | 0075000 | | ••• | |
| | 2007 | Cargo | 9 | | 4050 | 2875600 | | | |
| | 2008 | Cargo | 9 | 80 | 1050 | 3500000 | 280 | | |
| | 2009 | Cargo | 9 | 80 | 1050 | 3500000 | 292.00 | | |
| 33 | 2010 | Cargo | | • • • | | ••• | • • • | ••• | |
| 33 | Vaishnavi Shipping Co. F | vi. Liu. | | | | | | | |
| | 2007 2008 | Cargo | 1 | 60-70 | 149.63 | 1/21657 | 92.4 | | |
| | | Cargo | 1 | 60-70 | 149.63 | 1421657 229846 | 92.4 14.94 | | |
| | 2009 2010 | Cargo Cargo | 1 | 60-70 | 133.74 | 196159 | 14.94 | ••• | |
| 34 | Vasco Ore Carriers | Cargo | ' | 50-70 | 100.74 | 130138 | 11.77 | ••• | |
| J- | 2007 | | | | | | | | |
| | 2007 | •••• | ••• | | ••• | | ••• | | |
| | 2009 | ••• | | | | | ••• | | |
| | 2010 | | ••• | | | | | | |
| 35 | Sanghi Brothers (Indore) | | ••• | ••• | ••• | ••• | ••• | | |
| 50 | 2007 | | | | | | | | |
| | 2008 | | | | | | | | |
| | | | | | | | | | |
| | 2009 | | | | | | | | |

⁽a): transportation for self

(B): data relates to no of vechicles (C): 24023 no vechicles on LCT 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

Inland Water Transport - Plan Outlay and Expenditure - Central Sector (Central and Centrally Sponsored Schemes)

(Rs.in Lakh)

| Plan | Centr | al Schemes | Centrally S | ponsoredSchemes | Total | | |
|--------------------|-------------|---------------|-------------|-----------------|-------------|---------------|--|
| 1 | Outlay 2 | Expenditure 3 | Outlay 4 | Expenditure 5 | Outlay 6 | Expenditure 7 | |
| First Plan | | - | | - 1 | | | |
| (1951-56) | - | 33.00 | - | - | - | 33.00 | |
| Second Plan | | | | | | | |
| (1956-61) | 143.32 | 72.34 | - | - | 143.32 | 72.34 | |
| Third Plan | | | | | | | |
| (1961-66) | 438.10 | 126.62 | 322.00 | 125.71 | 760.10 | 252.33 | |
| Annual Plan | | | | | | | |
| 1966-67 | 164.52 | 54.09 | 32.62 | 27.62 | 197.14 | 81.71 | |
| 1967-68 | 192.40 | 299.07 | 33.65 | 27.98 | 226.05 | 327.05 | |
| 1968-69 | 98.86 | N.A. | 31.00 | N.A. | 129.86 | 130.00 | |
| Fourth Plan | | | | | | | |
| (1969-74) | 500.00 | 369.89 | 400.00 | 303.91 | 900.00 | 673.80 | |
| Fifth Plan | | | | | | | |
| (1974-79) | 1392.18 | 685.82 | 1100.00 | 508.86 | 2492.18 | 1194.68 | |
| Annual Plan | | | | | | | |
| 1979-80 | 714.30 | 190.00 | 242.70 | 24.00 | 957.00 | 214.00 | |
| Sixth Plan | | | | | | | |
| (1980-85) | 4117.00 | 3821.00 | 383.00 | 84.00 | 4500.00 | 3905.00 | |
| Seventh Plan | | | | | | | |
| (1985-90) | 14167.00 | 12892.00 | 1333.00 | 293.00 | 15500.00 | 13185.00 | |
| Annual Plan | | | | | | | |
| 1990-91 | 5385.00 | 1385.00 | 315.00 | 58.00 | 5700.00 | 1443.00 | |
| 1991-92(RE) | 4748.00 | 882.00 | 252.00 | 150.00 | 5000.00 | 1032.00 | |
| Eighth Plan | | | | | | | |
| (1992-97) | 23285.00 | 6241.00 | 715.00 | 153.00 | 24000.00 | 6394.00 | |
| Ninth Plan | | | | | | | |
| (1997-2002) | 38322.00 | 21670.00 | 938.00 | 856.00 | 29260.00 | 22526.00 | |
| Tenth Plan | | | | | | | |
| (2002-2007) | 88300.00 | - | 2000.00 | - | 90300.00 | - | |
| 2002-03 | 8690.00 | 7831.00 | 300.00 | Nil | 8990.00 | 7831.00 | |
| 2003-04 | 8868.00 | 8147.00 | 1000.00 | 985.00 | 9868.00 | 9132.00 | |
| 2004-05 | 12557.00 | 5796.00* | 2000.00 | 1598.00 | 14557.00 | 7394.00* | |
| 2005-06 | 13500.00 | 6551.00 | 1500.00 | 1500.00 | 15000.00 | 8051.00 | |
| 2006-07(P) | 13300.00 | 8839.00 | 1700.00 | 1200.00 | 15000.00 | 10039.00 | |

(P): Provisional

Source: Planning Commision, Government of India and Ministry of Shipping, RT&H, Government of India.

^{*} Amount released by the Ministry of Shipping RT&H upto Dec. 2004

Table No. 6.2

State Plan Outlay & Expenditure under the Head of Development titled "Inland Water Transport"

(Fig. in Rs. Lakh)

| | | | (rig. iii Ks. Lakii) | |
|---------|-------------------|--------------------------|----------------------|-------------------|
| SI. No. | Name of the State | Plan Outlay (2002-07) | 2005-06 (Expd) | 2006-07 (Expd) |
| 1 | 2 | 3 | 4 | 4 |
| 1 | Andhra Pradesh | 100 | - | - |
| 2 | Arunachal Pradesh | | | 41.89 |
| 2 | Assam | 1600 | 262.00 | 209.57 |
| 3 | Bihar | | | |
| 4 | Goa | 800 | 124.95 | 112.88 |
| 5 | Himachal Pradesh | 15 | 10.88 | 0.86 |
| 6 | Jammu & Kashmir | 1160 | 197.86 | - |
| 7 | Karnataka | 4797 | 47.57 | - |
| 8 | Kerala | 7000 | 487.62 | 258.46 |
| 9 | Maharashtra | 1000 | 183.37 | 257.12 |
| 10 | Mizoram | 47 | 5.00 | 32.45 |
| 11 | Orissa | 120 | 31.51 | 2.39 |
| 12 | Tamil Nadu | | | |
| 13 | Uttar Pradesh | 10 | | |
| 14 | West Bengal | 2569 | 964.63 | 483.00 |
| 15 | Lakshadweep | | 2458.09 | |
| | All States/Uts | 19218 | 4773.48 | 1398.62 |

Source : Planning Commission, Government of India.

SECTION - 7

INLAND WATERWAYS'

TRANSPORT ACCIDENTS

Table No. 7.1 No. of Accidents, Persons Injured And Killed by Drowning (Boat Capsize) in States with IWT operations During 2009.

| | 1 | poizo, ili otti | | | Drowning (Boat Capsize) | | | | |
|---------|-------------------|-----------------|--------|------------|-------------------------|-----------------------|--------|-------|--|
| SI. No. | State/UT | No. of | No. of | Persons Ir | | No. of Persons Killed | | | |
| | | Accidents | Male | Female | Total | Male | Female | Total | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
| | STATES | | | | | | | | |
| 1 | Andhra Pradesh | 11 | 7 | 2 | 9 | 15 | 1 | 16 | |
| 2 | Arunachal Pradesh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 3 | Assam | 23 | 0 | 0 | 0 | 21 | 4 | 25 | |
| 4 | Bihar | 49 | 6 | 1 | 7 | 63 | 57 | 120 | |
| 5 | Chhattisgarh | 36 | 0 | 0 | 0 | 30 | 6 | 36 | |
| 6 | Goa | 2 | 0 | 0 | 0 | 2 | 1 | 3 | |
| 7 | Gujarat | 15 | 0 | 0 | 0 | 17 | 0 | 17 | |
| 8 | Haryana | 33 | 0 | 0 | 0 | 27 | 6 | 33 | |
| 9 | Himachal Pradesh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 10 | Jammu & Kashmir | 1 | 0 | 0 | 0 | 1 | 0 | 1 | |
| 11 | Jharkhand | 2 | 0 | 0 | 0 | 1 | 1 | 2 | |
| 12 | Karnataka | 36 | 0 | 0 | 0 | 44 | 7 | 51 | |
| 13 | Kerala | 9 | 0 | 0 | 0 | 33 | 26 | 59 | |
| 14 | Madhya Pradesh | 319 | 4 | 1 | 5 | 230 | 93 | 323 | |
| 15 | Maharashtra | 4 | 0 | 0 | 0 | 5 | 0 | 5 | |
| 16 | Manipur | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 17 | Meghalaya | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 18 | Mizoram | 14 | 0 | 0 | 0 | 16 | 0 | 16 | |
| 19 | Nagaland | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 20 | Orissa | 55 | 0 | 0 | 0 | 52 | 7 | 59 | |
| 21 | Punjab | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 22 | Rajasthan | 1 | 0 | 0 | 0 | 4 | 2 | 6 | |
| 23 | Sikkim | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 24 | Tamil Nadu | 23 | 0 | 0 | 0 | 26 | 2 | 28 | |
| 25 | Tripura | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 26 | Uttar Pradesh | 140 | 10 | 2 | 12 | 105 | 56 | 161 | |
| 27 | Uttarakhand | 1 | 0 | 0 | 0 | 1 | 0 | 1 | |
| 28 | West Bengal | 6 | 0 | 0 | 0 | 4 | 2 | 6 | |
| | Total(States) | 780 | 27 | 6 | 33 | 697 | 271 | 968 | |
| | UNION TERRITORIES | | | | | | | | |
| 29 | A&N Island | 2 | 0 | 0 | 0 | 6 | 0 | 6 | |
| 30 | Chandigarh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 31 | D&N haveli | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 32 | Daman & Diu | 7 | 0 | 0 | 0 | 6 | 1 | 7 | |
| 33 | Delhi | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 34 | Lakshadweep | 2 | 0 | 0 | 0 | 1 | 2 | 3 | |
| 35 | Pondicherry | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| T | otal (UTs) | 11 | 0 | 0 | 0 | 13 | 3 | 16 | |
| | Total States/UTs | 791 | 27 | 6 | 33 | 710 | 274 | 984 | |

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

Source: Accidental Deaths & Suicides in India - 2009

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

SECTION - 8

INLAND WATERWAYS IN SELECTED COUNTRIES

Table No. 8.1

Length of Navigable Inland Waterways in

Europe and USA in 2003 & 2004

(In Kms.)

| SI. | Country | Car | nals | Rivers and Lakes | | | To | otal |
|-----|--------------------------|------|------|------------------|------|---|--------|--------|
| No. | | 2003 | 2004 | 2003 | 2004 | - | 2003 | 2004 |
| 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 | _ | _ | 720 | 804 | | 720 | 804 |
| 6 | Czech. Republic | 39 | 39 | 625 | 625 | | 664 | 664 |
| 7 | Estonia | _ | _ | 320 | 320 | | 320 | 320 |
| 8 | Finland | 125 | 125 | 7759 | 7893 | | 7884 | 8018 |
| 9 | France | 3715 | 3693 | 1669 | 1679 | | 5384 | 5372 |
| 10 | Germany | 1620 | 2379 | 5089 | 5186 | | 6636 | 7565 |
| 11 | Hungary | 121 | 166 | 1319 | 1273 | | 1440 | 1439 |
| 12 | Kazakhstan | _ | _ | 4032 | | | 4032 | |
| 13 | Kyrgyzstan | _ | _ | 460 | | | 460 | |
| 14 | Lithuania | 1 | 1 | 289 | 289 | | 290 | 290 |
| 15 | Poland | 331 | 331 | 3312 | 3307 | | 3643 | 3638 |
| 16 | Moldova | _ | _ | 42 | 42 | | 42 | 42 |
| 17 | Netherlands | | 3509 | | 3086 | | | 6595 |
| 18 | Romania | 132 | 132 | 1647 | 1647 | | 1779 | 1779 |
| 19 | Russian Federation | | | | | | 101679 | 101679 |
| 20 | Serbia and Montenegro | | 342 | | 1077 | | | 1419 |
| 21 | Slovakia | 39 | 39 | 134 | 134 | | 173 | 173 |
| 22 | United Kingdom | 155 | 155 | 910 | 910 | | 1065 | 1065 |
| 23 | United States of America | | | | | | 42000 | |
| | | | | | | | | |

Source: Annual Bulletin of Transport Statistics for Europe & North America, 2008 (UN Publication).

Table No. 8.2

Length of Navigable Waterways By Permissible Carrying Capacity of Vessels - 2004

| | | Total Carrying Capacity of Vessels - 2004 Carrying Capacity of Vessels (in tonnes) | | | | | | | | | | | |
|--------|----------------|---|-------------|---------|-----------------------|-------------------------|-----------------------|---------------|--------|--|--|--|--|
| SI.No. | Country | Total | unto | 250-399 | rying Capa 400-649 | city of Vess 650-999 | els (in tonr 1000- | nes) 1500- | 3000 & | | | | |
| SI.NO. | Country | Length (Kms.) | upto 249 | 250-399 | 400-649 | 650-999 | 1499 | 2999 | Above | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | | | |
| 1 | Albania | | | | | | | | | | | | |
| | Canals | | | | | | | | | | | | |
| | Rivers & Lakes | 351 | | | | | | | 351 | | | | |
| 2 | Austria | 301 | | | | | | | 331 | | | | |
| 2 | Canals | | | | | | | | | | | | |
| | Rivers & Lakes | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | |
| 3 | Belgium | 075 | | 450 | 045 | | 047 | 40 | 000 | | | | |
| | Canals | 875 | | 150 | 245 | | 217 | 48 | 200 | | | | |
| | Rivers & Lakes | 641 | _ | 182 | 34 | - | 210 | 162 | 53 | | | | |
| 4 | Bulgaria | | | | | | | | | | | | |
| | Canals | 470 | | | | | | | 470 | | | | |
| _ | Rivers & Lakes | 470 | | | | | | | 470 | | | | |
| 5 | Croatia | | | | | | | | | | | | |
| | Canals | | | | | | | | | | | | |
| | Rivers & Lakes | 804 | - | 17 | 215 | 286 | 149 | | 138 | | | | |
| 6 | Czec Republic | | | | | | | | | | | | |
| | Canals | 39 | | | | | | | 39 | | | | |
| | Rivers & Lakes | 625 | | | | | | | 625 | | | | |
| 7 | Estonia | | | | | | | | | | | | |
| | Canals | | | | | | | | | | | | |
| | Rivers & Lakes | 320 | | | | | | | 320 | | | | |
| 8 | Finland | | | | | | | | | | | | |
| | Canals | 125 | 9 | | | 16 | | 100 | | | | | |
| | Rivers & Lakes | 7893 | 4183 | | | 2909 | | 801 | | | | | |
| 9 | France | | | | | | | | | | | | |
| | Canals | 3693 | 51 | 2796 | - | 225 | 31 | 13 | 577 | | | | |
| | Rivers & Lakes | 1679 | 13 | 421 | 165 | - | - | 219 | 861 | | | | |
| 10 | Germany | | | | | | | | | | | | |
| | Canals | 2379 | 112 | 239 | | 35 | 1403 | 391 | 109 | | | | |
| | Rivers & Lakes | 5186 | 386 | 734 | 90 | 227 | 830 | 1870 | 1049 | | | | |
| 11 | Hungary | | | | | | | | | | | | |
| | Canals | 166 | - | - | 45 | - | 121 | - | - | | | | |
| | Rivers & Lakes | 1273 | - | 78 | 357 | 330 | 126 | - | 382 | | | | |
| | | | | | | | | | | | | | |

Table No. 8.2 (Concld...) Length of Navigable Waterways By Permissible Carrying Capacity of Vessels-2004

| | | Total | Carrying Capacity of Vessels (in tonnes) | | | | | | | |
|--------|-----------------------|------------------|--|---------|---------|---------|---------------|---------------|-----------------|--|
| SI.No. | Country | Length (Kms.) | 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 | 4032 | | | | | | | 4032 | |
| 13 | Kyrgyzstan* | | | | | | | | | |
| | Canals | | | | | | | | | |
| | Rivers & Lakes | 460 | | | | | | | 460 | |
| 14 | Lithuania | | | | | | | | | |
| | Canals | 1 | | | | 1 | | | | |
| | Rivers & Lakes | 289 | | | | 289 | | | | |
| 15 | Moldova | | | | | | | | | |
| | Canals | | | | | | | | | |
| | Rivers & Lakes | 42 | 42 | | | | | | | |
| 16 | Netherlands | | | | | | | | | |
| | Canals | 3509 | 1238 | 352 | 737 | 150 | 344 | 487 | 201 | |
| | Rivers & Lakes | 3086 | 662 | 53 | 306 | 155 | 154 | 758 | 996 | |
| 17 | Poland | | | | | | | | | |
| | Canals | 331 | | | | | | | 331 | |
| | Rivers & Lakes | 3307 | | | | | | | 3307 | |
| 18 | Romania | | | | | | | | | |
| | Canals | 132 | | | 40 | | 33 | 27 | 32 | |
| | Rivers & Lakes | 1647 | | | 53 | 274 | 819 | 233 | 268 | |
| 19 | Serbia and Montenegro | | | | | | | | | |
| | Canals | 342 | 21 | 321 | - | - | - | - | - | |
| | Rivers & Lakes | 1077 | 38 | - | 46 | 405 | - | 588 | - | |
| 20 | Slovakia | | | | | | | | | |
| | Canals | 39 | - | - | - | - | - | - | 39 | |
| | Rivers & Lakes | 134 | - | - | - | - | - | 134 | - | |
| 21 | Ukraine | | | | | | | | | |
| | Canals | | | | | | | | | |
| | Rivers & Lakes | | | | | | | | | |
| 22 | United Kingdom | | | | | | | | | |
| | Canals | 155 | | | | | | | 155 | |
| | Rivers & Lakes | 910 | | | | | | | 910 | |
| | *; Relates to 2003 | | | | | | | | | |

Source: Annual Bulletin of Transport Statistics for Europe & North America-2008.

Table No. 8.3 Inland Waterways vessels in Service at the end of 2004

| | Self Propelled Vessels D.& P. Vessels Tugs and P | | | | | | | | | |
|---------|--|------|-----------------------------------|-------------------|----------|-------------------------------------|------|-------------------|--|--|
| SI. No. | Country | Nos. | Carrying Capacity (Th.Tonne | 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 | 1279 | 1298.00 | | 244 | 453 | | | | |
| 4 | Bulgaria | 10 | 12.5 | 10.90 | 161 | 245.5 | 35 | 33.8 | | |
| 5 | Croatia | 5 | 3.00 | 3.00 | 121 | 76.00 | 59 | 16.00 | | |
| 6 | Czec.Republic | 75 | 66.39 | 31.76 | 227 | 126.33 | 152 | 50.80 | | |
| 7 | Estonia | 1 | | | 3 | | 2 | | | |
| 8 | Finland | 135 | 13.00 | 26.00 | 32 | 5.00 | 31 | 10.00 | | |
| 9 | France | 970 | 511.00 | 230.00 | 533 | 597.00 | | | | |
| 10 | Germany | | | | | | | | | |
| 11 | Hungary | 135 | 42.00 | 62.00 | 113 | | 37 | 27.00 | | |
| 12 | Kazakhstan(a) | 2 | 3.40 | | 81 | 63.10 | 51 | 12.30 | | |
| 13 | Kyrgyzstan(a) | 8 | 0.60 | | 10 | | 4 | | | |
| 14 | Lithuania | 30 | 9.90 | 5.50 | 27 | 18.60 | 19 | 4.00 | | |
| 15 | Poland | 93 | 45.50 | 22.60 | 494 | 237.40 | 257 | 68.00 | | |
| 16 | Republic of Moldova | | | | 15 | 3.60 | 10 | 1.10 | | |
| 17 | Romania | | | | 1661 | 2184.60 | 915 | 465.11 | | |
| 18 | Serbia and Montenegro | 72 | 68.00 | 25.00 | 468 | 510.00 | 141 | 77.00 | | |
| 19 | Slovakia | 27 | 20.50 | 13.30 | 204 | 301.10 | 46 | 46.20 | | |
| 20 | Ukraine | | | | ••• | | | | | |
| 21 | United Kingdom | 151 | 50.00 | | 339 | 117.00 | 143 | | | |
| 22 | United States of America(a) | 4834 | 1954.80 | 6036.70 | 26984.00 | 40027.90 | 3393 | 5363.20 | | |

D.& P. Vessels : Dumb & Pushed Vessels

(a): Relates to 2003

Source: Annual Bulletin of Transport Statistics for Euorpe and North America, 2008

Table No. 8.4

Goods Transport by Type of Transport on National Territory - 2004

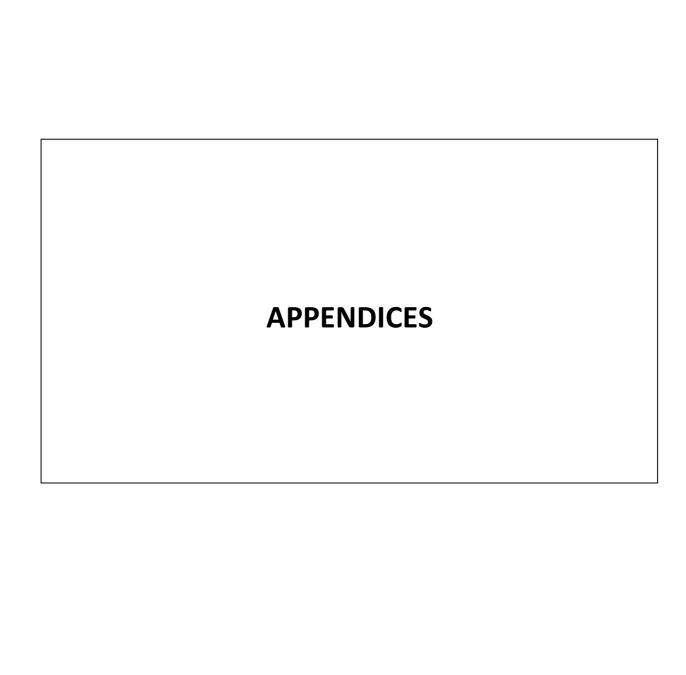
| SI. | Country | Good | s carried (| '000 Tonne | s) | Tonne Km | ns. of Goo | ds carried(| Million)* |
|-----|-----------------------------|----------|-------------|------------|---------|----------|------------|-------------|-----------|
| No. | | National | | | Transit | National | | rnational | Transit |
| | | | Loaded | Unloaded | _ | | | Unloaded | |
| 1_ | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 1 | Albania | | | | | | | | |
| 2 | Austria | 191 | 1635 | 6072 | 1173 | 33 | 1017 | 6176 | 1548 |
| 3 | Belgium | 35747 | 40712 | 66631 | 4146 | 3057 | 1528 | 3717 | 557 |
| 4 | Bulgaria | 904 | 470 | 3033 | | 40 | 56 | 602 | |
| 5 | Croatia | 493 | 114 | 925 | | 49 | 9 | 121 | |
| 6 | Czech-Republic | 621 | 253 | 299 | - | 26 | 141 | 195 | - |
| 7 | Estonia | | | | | | | | |
| 8 | Finland | 492 | | | | 118 | | | |
| 9 | France | 27500 | 16088 | 14394 | 9343 | 4163 | 1625 | 1526 | 1106 |
| 10 | Germany | 55209 | 51367 | 105109 | 24175 | 11297 | 13413 | 23625 | 15333 |
| 11 | Hungary | 39 | 2313 | 1859 | 3146 | 5 | 385 | 322 | 1192 |
| 12 | Kazakhstan | | | | | | | | |
| 13 | Kyrgyzstan | | | | | | | | |
| 14 | Lithuania | | | | | | | | |
| 15 | Poland | 5010 | 1832 | 386 | 1519 | 243 | 465 | 121 | 237 |
| 16 | Republic of Maldova | 120 | - | - | - | | - | - | - |
| 17 | Romania | 12183 | 1500 | 793 | 124 | 2176 | 1318 | 714 | 82 |
| 18 | Russian Federation | 104000@ | | | | 71294# | | | |
| 19 | Serbia and Montenegro | 2412 | 464 | 3429 | 3289 | 218 | 446 | 3369 | 5441 |
| 20 | Slovakia | 106 | 2287 | 213 | 119 | 5 | 50 | 16 | 20 |
| 21 | Ukraine | | | | | | | | |
| 22 | United Kingdom | 2599 | - | - | - | 152 | - | - | - |
| 23 | United States of America | 2662045 | | | | 415819 | | | |

Source: Annual Bulletin of Transport Statistics for Europe and North America 2008

^{*:} Kilometers within the territory of the reporting country.

^{@:}Total Goods Carried during 2003

^{#:} Total Tonne Kms of goods carried during 2003



DEFINITIONS OF TERMS USED

Navigable Inland Waterways

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.

Inland Water Transport (IWT) Craft

Craft having a minimum carrying capacity of 20 tonnes designed for the carriage of goods by inland waterways.

Dumb Barge

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.

Dumb Tanker

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.

Self-Propelled Barge

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.

Self Propelled Tanker

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.

Navigation

Self Propelled Craft for River-Sea 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.

Tug

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

- 1. 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.
- 2. 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).

Appendix - II

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 Amonnia Gas
- **FO** Furnace Oil
- LDO Light Diesel Oil

GC/G Cargo General Cargo

Neg/N Negligible

- FBP Farakka Barage Project
- **IOC** Indian Oil Corporation
- **HSD** High Speed Diesel
- LCT Loaded Carriage Tug

FACT Fertilisers and Chemicals Travancore Ltd.

********X