



ANNUAL **REPORT** 2018-19



INLAND WATERWAYS AUTHORITY OF INDIA



Annual Report 2018 - 2019

INLAND WATERWAYS AUTHORITY OF INDIA
MINISTRY OF SHIPPING

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1. IWT SECTOR – GENERAL INFORMATION

- (i) Transport sector comprising of railways, roadways, ocean and coastal shipping, inland waterways, pipelines and airways is critical infrastructure for economic development of any country. Navigable waterways are a fuel-efficient, environment friendly and cost-effective mode of transport. Water transport is also a safe, cheap and lower carbon footprint mode of transport. A developed transport system enables optimum cost of transportation in a multimodal network utilizing strengths of all modes on case to case basis. In these corridors, inland waterways can be developed with navigational channel of specified dimensions for making them commercially viable to promote cost effective, environment friendly and fuel efficient mode of transport, especially for bulk goods, hazardous cargo and over dimensional cargo. In some of the developed countries (e.g. USA, China and many countries of Europe), the modal share of the Inland Water Transport (IWT) sector is much higher than the IWT sector in India, thus benefitting their economies significantly through a self-sustainable supplementary mode of transportation.
- (ii) India has a number of rivers, canals, creeks and backwaters which have the potential to be developed and used as cost effective and efficient inland waterways. Till early 20th century, the IWT had been used as an important mode of transportation in various parts of the country. However, due to various factors, including rapid development of road and railways, little industrial development in the country, less attention paid to preservation and development of inland waterways etc, many waterways lost their competitive edge to the rail and road modes.
- (iii) A major boost to IWT Sector has been provided by the Government of India through enactment of National Waterways Act, 2016 (No.17 of 2016) dated 26th March, 2016 which came into force w.e.f 12th April, 2016. With the enactment of the National Waterways Act, 2016, the total number of national waterways is now 111 including 05 waterways declared through earlier Acts. 111 National Waterways cover a total length of 20375 kms. spread across 24 States in the country. National Waterways of India are well in line to become the lifeline of the country. Inland Water Transport (IWT) has a potential to supplement the overburdened Railways and congested Roadways. In addition to cargo movement, National Waterways can provide a convenient function in related activities such as carriage of vehicles (in Roll-on-Roll-off mode of cross-ferry) and Tourism including stay and entertainment.
- (iv) Some of the major constraints which IWT sector in India is currently facing includes – Inadequate discharges in the rivers during lean season resulting in inadequate fairway with depth and width required for round the year operation of IWT vessels of reasonable size; drifting of navigable channel after every flood season due to bank erosion, lack of terminal infrastructure for loading and unloading of cargo and their first and last mile connectivity with road/rail infrastructure; navigational aids for safe and unhindered navigation during day and night and shortage of IWT vessels. To achieve substantial IWT traffic, thrust is therefore on creation of infrastructure (mainly through public funding) and at the same time, augmentation of IWT fleet primarily through private sector.

2. ROLE OF IWAI

Inland Waterways Authority of India (IWAI) was constituted on 27th October, 1986 vide Inland Waterways Authority of India Act, 1985 for regulation and development of Inland Waterways for the purposes of shipping and navigation. As per section 22 of the IWAI Act, 1985, the Annual Report of the

Authority is prepared giving a full account of its activities during the previous financial year and submit a copy to the Government.

Besides, IWAI is developing and maintaining the Indian side of the designated waterway routes under the Indo-Bangladesh Protocol for Transit and Trade through inland vessels of country to the other country and is also assisting Government of Myanmar as a Project Development Consultant (PDC) for Kaladan Multimodal Transit Transport Project.

The role of IWAI in the overall augmentation of IWT sector is pivotal. It has potential to be developed as an eco-friendly, cheap and viable mode of transportation to boost the economy of India as trade, commerce, employment generation, tourism, etc. as well as satisfy the aspiration of the teeming millions of society.

3. DEVELOPMENT OF NATIONAL WATERWAYS

There are three basic infrastructural requirements for making a waterway viable for shipping and navigation. These are (i) navigation channel with adequate depth and width for movement of reasonable size of inland vessels; (ii) navigation aids for day and night navigation; and (iii) terminals to provide berthing of vessels, loading and unloading of cargo/passengers and road/rail connectivity.

4. NATIONAL WATERWAY (NW) - 1

The Ganga - Bhagirathi - Hooghly river system between Haldia (Sagar) and Allahabad (1620 km) was declared as National Waterway-1 (NW-1) in 1986. Since then IWAI is carrying out various developmental river conservancy works like bandalling, dredging on the waterway for improvement of its navigability and also development & maintenance of other infrastructure such as navigation aids and terminal facilities as laid down in the IWAI Act, 1985 (82 of 1985). Further, several developmental activities are being undertaken under Jal Marg Vikas Project (JMVP) for capacity augmentation the waterway to enable commercial navigation. At present, the waterway is being used by private cargo vessels, tourist vessels, ODC carriers and also movement of IWAI vessels etc. Besides, various power companies have initiated action for setting up Thermal Power projects along / around river Ganga i.e. NW-1 and extensive movement of Over Dimensional Cargo (ODC) & imported coal for NTPC projects and evacuation of fly ash is planned to operate during the upcoming years. During 2018-19, the important works carried out for development and maintenance of fairway, navigational aids and terminal facilities on NW-1 are as below:

4.1 Fairway Development:

A fairway with targeted depth and width is to be developed / maintained in NW-1 for the purpose of smooth and safe navigation. This was achieved by undertaking River Conservancy measures like bandalling, dredging in Tribeni - Allahabad (Prayagraj) stretch (1424 km) of NW-1. The 24 hours Navigation Aids being provided from Sagar to Ballia 1140 km stretch and the day channel marks provided in entire stretch of NW-1.

In fact, the stretch between Haldia & Tribeni (196 km) is tidal and Least Available Depth (LAD) of more than 3.0 m is maintained naturally. IWAI undertaking River Conservancy works for fairway development in Tribeni – Varanasi stretch to maintain target Least Available Depth (LAD). Further the bandalling work in Varanasi – Allahabad (Prayagraj) stretch was also carried out to provide 1 m LAD for movement of boats of Kumbh Mela 2019 celebrated in Prayagraj. Besides, Assured Depth Contracts to ensure target LAD in the respective reaches of NW-1 are also carried out under Jal Marg Vikas Projects assisted by World Bank.



Bandal erected along National Waterway-1



Dredging in progress on National Waterway - 1



Dredging in progress through pipeline on National Waterway - 1

During 2018-19, Bandalling works of 4,800 m in Tribeni - Rajmahal (399 km) stretch and 26,400 m in Rajmahal- Allahabad (Prayagraj) 1025 km. stretch were executed for developing and maintaining the navigation channel (fairway). Besides, 3.38 lakh m³ dredging in Tribeni – Rajmahal stretch and 5.51 lakh m³ dredging in Rajmahal – Chunar/ Allahabad stretch was carried out by deploying IWAI's dredgers apart from dredging carried out under Assured Depth Contracts.

The Least Available Depth (LAD), which was maintained for various stretches of NW-1 during 2018-19 as given below:

(a)	Haldia – Farakka stretch	(560 km)	–	2.6 m to 3.0 m
(b)	Farakka – Barh stretch	(400 km)	–	2.1 m to 3.0 m
(c)	Barh – Ghazipur stretch	(290 km)	–	1.6 m to 2.0 m
(d)	Ghazipur – Chunar/Allahabad	(370* km)	–	1.0 m to 1.5 m

* In Chunar-Allahabad stretch (198 Km), the day channel marking has been undertaken.



Coal movement to NTPC Farakka through NW-1



Loading of bagged fly ash at Bhagalpur on NW-1



IWAI Cargo vessel SDV Rajagopalchari



ODC movement on National Waterway-1

4.2 Development of Tourism:

The movement of Inland tourist vessels RV Bengal Ganga and ABN Rajmahal is carrying out since many years on NW-1 & an increasing trend in the State of West Bengal, Jharkhand, Bihar and Uttar Pradesh. The movements of these tourist vessels with foreign tourists were continued during 2018-19 and completed their commercial trips successfully as per schedule. Seven (07) no. to & fro voyages between Kolkata to Bateshwarsthan/ Munger/ Patna / Varanasi has been performed by these tourist vessels.



Tourist Vessel RV Bengal Ganga on NW-1



Tourist Vessel Ganga Voyager on NW-1



Tourist Vessel MV Sukapha on NW-1



Tourist Vessel ABN Rajmahal on NW-1



Tourist Vessel M.V. Rajmahal on NW-1

IWAI also contributed in ferrying devotees from IWAI, Gaighat Jetty to Patna Sahib on NW - 1 by using IWAI vessels in celebration of Shukrana Prakash Parv of Shri Guru Govind Singh Ji in Patna (Bihar) during January, 2019, for which “Prashasti Patr” has been awarded to then the Director, IWAI by the State Government of Bihar.



Pilgrims movement by IWAI's Vessel at Shukrana Prakash Parv of Shri Guru Govind Singh Ji

4.3 Terminal Facilities:

The low level and high level jetties at Gaighat, Patna (Bihar) are operational since 2008 and 2012 respectively which are capable of mechanical handling of cargo. Bunkering facility and storage facility are also available at this terminal.



Vessels berthed at High Level Jetty, Gaighat, Patna on NW-1



Vessels berthed at Low Level Jetty, Gaighat, Patna on NW-1

A Permanent terminal at GR jetty-2, Kolkata is operational since November, 2013 for handling of General Cargo.



Permanent Terminal at G R Jetty-2 Kolkata

Besides, fixed jetties of Farakka Barrage Project (FBP) at Farakka and Pakur also exist on NW-1 and being used by transporters / shippers / cruise vessels.

Further, floating terminals at 20 locations along National Waterway-1 are operational between Haldia and Allahabad which are being used for berthing of vessels, logistic support and embarking / disembarking facility to the users / tourists.



Floating terminal at Farakka on NW-1

The locations of these 20 floating terminals are as under:

- (i) Haldia, Budge-Budge, BISN, Botanical Garden (Kolkata), Shantipur, Swaroopganj, Katwa, Hazardwari, Downstream (D/s) Farakka and Upstream (U/s) Farakka in **West Bengal**;

- (ii) Rajmahal (Manglahat) and Sahibganj (Samdaghat) in **Jharkhand** and Bateshwarsthan, Bhagalpur, Munger, Semaria and Buxar in **Bihar**; and
- (iii) Ghazipur / Rajghat, Ramnagar (Varanasi) and Allahabad terminals in **Uttar Pradesh**.

These floating terminals can be relocated at various sites on National Waterway-1, as per the requirement.

In addition, one Multi-Modal Terminal (MMT) at Varanasi (U.P.) has already been inaugurated by Hon'ble Prime Minister Sh. Narendra Modi on 12.11.2018 and an another Multi-Modal Terminal (MMT) at Sahibganj (Jharkhand) is in progress under Jal Marg Vikas Project (JMVP) with the World Bank assistance. The details of Jal Marg Vikas projects are included in a separate section of this rep



4.4 Navigation Aids:

Day channel marking is being provided across entire stretch from Haldia to Allahabad to facilitate round the year navigation. Night navigation aids between Haldia – Ballia (1140 km) stretch have also been provided through a system comprising of light - fitted country boats / bamboo structures, MS poles and trestle beacon towers to facilitate round the clock navigation.



Day Right Hand Mark



Light on Country Boat



Light on Steel Pole



Light on Beacon Tower

IWAI is conducting thalweg surveys regularly on fortnightly basis and issuing River Notices for information of operators / users.



IWAI Vessels conducting Hydrographic Survey

Besides, IWAI is providing Pilotage to operators on need basis.

Moreover, for providing State of Art, 24 hours navigation aids on the waterway, the Differential Global Positioning System (DGPS) stations have been commissioned at Swaroopganj, Bhagalpur and Patna and made operational for use of transporters / shippers. Further, installation of another DGPS station at Varanasi has been established and will be operational soon.

An important project of providing world class River Information System (RIS) on NW-1 is under implementation in a phased manner. The Phase-I of this project between Haldia-Farakka stretch consisting of 7 Base stations, including 2 Control stations and 30 Vessel stations has been commissioned.



River Information System Station at Farakka

Further, the RIS stations between Farakka-Patna stretch consisting of 6 Base stations and 1 Control station has also been commissioned in Phase – II. The implementation of Phase-III of RIS stations between Patna-Varanasi consisting of 4 Base stations and 1 Control station has been established and will be operational shortly.

4.5 Cargo Movements :

The Transportation of 10,29,521 MT cargo consisting of Stone chips, Building materials, ODC's carrier, fly-ash etc. has been carried during the year 2018-19 between the stretch Rajmahal to Varanasi using National Waterway-1 In addition, more than 48 TEU's Containerized cargo moved between Kolkata to Varanasi.

Special Participation

Kumbh festival is the largest cultural and religious event in the world. For this Mega Event, IWAI has made arrangements for safe, seamless and comfortable movement of visitors to through operationalizing the waterway. These facilities viz. (i) vessels for movement of Govt. officials/ visitors (ii) Four Floating terminals at Kila Ghat, Kali Maa Ghat, Old Naini Bridge & New Naini Bridge/ Gaughat for visitors boarding/ de-boarding which aided the Mela Authorities. IWAI has also made efforts towards safe movement of pilgrims in the holy rivers Ganga (NW-1) & Yamuna (NW-110) during the Kumbh Mela from 15.01.2019 to 04.03.2019 in the sacred city of Prayagraj. Further, Five temporary jetties are made at Chatnag, Sirsa, Sitamarhi, Vindychal & Chunar for visitors boarding/ de-boarding

The endeavour of IWAI is to provide professional assistance to the Mela Authorities so that all visitors have a memorable visit to the Mela with seamless, safe and comfortable movement between the various Mela venues spread over the expanse of Prayagraj (Allahabad) – Varanasi. This effort is dovetailed with the overall aim of Nation Building and National Pride in our activities.



IWAI had similarly rendered professional assistance to the Governments of West Bengal and Bihar during the Ganga Sagar Mela at Sagar (W.B.) and Prakash Parv at Patna (Bihar) respectively.

5. NATIONAL WATERWAY (NW) - 2

River Brahmaputra from Sadiya to Bangladesh Border near Dhubri (891km) is the most important inland waterway in North Eastern Region (NER) forming NW-2, *which was declared as National Waterway in 1988*. Many rivers join this mighty river to form a fish bone structure. About 1687 km stretches of tributaries of Brahmaputra and Barak Rivers have been identified in NER having potential for development as feeder routes. NW-2 provides alternate connectivity to NER through 1700 km Indo-Bangladesh Protocol routes. During 2018-19, the important works carried out for development and maintenance of fairway, navigational aids and terminal facilities on NW-2 are as below:

5.1 Fairway Development:

A navigable fairway of minimum 45 m width and 2.5 m Least Available Depth (LAD) is maintained in Dhubri-Pandu (255 km) and Pandu-Neamati (374 km) stretch. In Neamati-Dibrugarh stretch, 2.0 m LAD was maintained for 350 days. In Dibrugarh-Sadiya (Oriumghat) stretch, LAD of 1.5 m was maintained round the year navigation. To maintain this LAD, 21,000 m of bandals were erected at 54 locations and the same was maintained. In addition to above, 1,44,333 m³ of dredging were carried out at 8 locations using two departmental CSDs namely CSD Mandovi and CSD Brahmani.

One HSD namely - "HSD Dhansiri" was deployed for undertaking dredging in order to augment the depth in the fairway. There are certain volatile zones (about nine) between Bangladesh Border and Neamati where there is a frequent change in the depth and river bed/channel.

There are multiple channels at Buraburi which lead to difficulties in maintaining a navigational channel connecting Dhubri terminal. To mitigate this problem, a project at a cost of Rs. 21.69 cr. for channelization of river at Buraburi (u/s of Dhubri) has been completed through Water Resource Department, Govt. of Assam for streaming the navigational channel through Dhubri terminal.



Typical picture of Bandal



Dredging at Pandu by CSD Mandovi

5.2 Permanent Terminals (Existing):

Pandu (Guwahati) is the most important location on NW-2 for development of a multimodal river port. A master plan was therefore prepared for phased development of terminal at Pandu and development was carried out accordingly. A low level jetty at a cost of Rs. 39.88 cr. was made operational in 2009. A high level jetty at a cost of Rs. 43.85 cr. was also made operational during 2014-15 for round the year operation with mechanical handling facility including containers.



Low Level Jetty at Pandu

A broad gauge railway siding connecting Pandu port to Kamakhya railway station (Guwahati) has been constructed through NF Railway at a cost of Rs. 16.84 crore and has been opened for commercial operation by NF Railway in 2013. IWAI has signed the Agreement with NF Railway for using the BG Siding for movement of Cargo by third party.

Construction of permanent terminal at Dhubri has been completed during 2017 at a cost of Rs.47 cr and operationalized.



Ro-Ro Terminal at Dhubri

This has provided direct IWT connectivity to Meghalaya through Hatsingimari from Dhubri (29 km by river route) avoiding a circuitous road route 220 km long through Jogighopa bridge. CPWD commenced works at Hatsingimari, however, almost entire land selected for construction of terminal has been eroded by the river making it difficult to construct any permanent structure in present conditions. Brahmaputra Board is executing a project for protecting the bank in about 5 km length at this location. This, however, will take some time to implement and stabilization of bank thereafter.

5.3 Floating Terminals:

Due to large variation (both horizontal and vertical) of water level in River Brahmaputra, construction of permanent terminals becomes very capital intensive. Hence, floating terminals have been provided at eleven identified locations viz. Hatsingimari, Dhubri, Jogighopa, Tezpur, Silghat, Biswanathghat, Neamati, Sengajan, Bogibeel, Dibrugarh/Oakland and Oriumghat.

At Jogighopa, out of 16.47 hectare of land, about 8.93 hectare of land was eroded. The continuing erosion has posed a threat to the nearby habitants. IWAI in co-ordination with Water Resources Department, Government of Assam has protected the remaining terminal land by executing the bank protection work in phase manner. This project had saved about 18.63 acres of land which would otherwise have been lost permanently. To strengthen further the implemented works, refurbishing is done through Govt. of Assam (WRD). on deposit work basis. Due to heavy floods in 2017 the river configuration got drastically changed with major re-orientation of sand islands and river channels in the concerned reach. Accordingly, WRD, Govt of Assam has started re-alignment of some of the porcupine screens. Work for the same is in progress.

5.4 Ro-Ro Vessels:

IWAI acquired a Ro-Ro vessel MV Gopinath Bordoloi, with capacity of 100 passengers and 8 Nos of loaded trucks, at a cost of Rs. 10.04 Cr for deployment on Dhubri-Hatsingimari route. The vessel was delivered on 07.03.2017 and operationalized from July 2017. This service transported more than 28677 passengers, 447 four axle vehicles and 2075 m/cycle including 64.18 MT goods during 2018-19.



Vessel MV Gopinath Bordoloi on Sail

Ro-Ro service with IWAI vessel MV Bhupen Hazarika having carrying capacity of 8 trucks and 100 passengers was inaugurated by Hon'ble Chief Minister of Assam on 11 October, 2018. This new Ro-Ro vessels plies between Neamati and Kamalabari (Majuli Island) and provides the much-needed succor to connectivity limitations for Majuli Island.

Also, another Ro-Ro service between Guwahati and North-Guwahati was commenced w.e.f 01.03.2019 by deploying another of IWAI vessel namely, MV Sankardev with carrying capacity of 12 trucks and 200 passengers. Therefore, three Ro-Ro Vessels viz., MV Gopinath Bordoloi, MV Bhupen Hazarika and MV Shankardev were deployed on Dhubri-Hatsingimari, Neamati-Hatsingimari and Guwahati-North Guwahati stretches.

5.5 Navigation Aids:

Channel marking for day navigation has been provided and maintained in the entire waterway. Night navigation aids have also been provided between Dhubri and Silghat (440 km) stretch and are being maintained. Fortnightly/ monthly thalweg surveys have been carried out in the entire waterway and regular river notices have been issued to provide fairway related information to the IWT operators. To supplement this, DGPS stations have been commissioned at Dhubri, Jogighopa, Silghat and Dibrugarh to facilitate DGPS connectivity in the entire NW-2. The DGPS station of Silghat has been shifted to Vishwanathghat due to severe erosion at Silghat.



Day Channel Marking



Aid to Night Navigation on Beacon

5.6 River Tourism:

The presence of wild life sanctuaries at Kaziranga and Orang and other places of tourism interest viz. Sualkuchi, Sibasagar and Kamalabari on the banks of Brahmaputra (NW-2) has helped in bringing up the river tourism in this mighty river on the international platform. Three tourist vessels viz, MV Chairaidew and MV Chairaidew-I of Assam Bengal Navigation Pvt Ltd, MV Mahabaahu of Adventure Resorts & Cruises Pvt Ltd and MV Manasputra of Brahmaputra Cruises are regularly making voyages between Dhubri/Pandu and Neamati with increasing number of foreign tourists every year. This gets reflected in the number of successful voyages in the mighty river Brahmaputra, wherein the operators have successfully completed 39 trips during 2018-19.



Cruise Vessel MV Charaidew on its voyage to Neamati

5.7 Acquisition of Cargo / Ro-Ro Vessels:

During the period IWAI has acquired / ordered the following vessels for deployment in NER:

- Order was placed on 21.11.2016 at a cost of Rs. 32.48 cr for acquisition of two units of Tug-Barge flotilla of 2000 ton capacity. First vessel was delivered in January, 2018 and the second vessel was delivered in March, 2018.
- Order was placed on 21.11.2016 at a cost of Rs. 21.74 cr for acquisition of two SPV of 2000-ton capacity. First vessel was delivered in March, 2018 and the second vessel delivered in April, 2018.
- Order was placed on 13.7.2017 at a cost of Rs. 11 cr for acquisition of one Ro-Ro Vessel of 8 truck carrying capacity. The vessel was delivered in August 2018.
- Order was placed on 5.12.2017 at a cost of Rs. 11.73 cr for acquisition of one Ro-Ro Vessel of 12 truck carrying capacity. The vessel was delivered in February 2019.

6. NATIONAL WATERWAY (NW) – 3

The NW-3 which comprised of the West Coast Canal between Kottappuram and Kollam (168 km), Udyogmandal canal (23 km) and Champakkara canal (14 km) [total 205 km] was extended by another 165 km towards North from Kottapuram till Kozhikode during April 2016 with declaration of National Waterways Act, 2016. Preparation of two stage DPR for the development of the extended stretch is under progress. The important works carried out during the year for development and maintenance of fairway, terminals and navigation aids on the original stretches of NW-3 are briefly described below:

6.1 Fairway development :

To develop the navigation channel with the specified dimensions, estimated volume of 39.64 lakhs Cu.m dredging has been completed till date in all stretches except a 1.00 km long shoal in Kayamkulam Kayal and 1.10 km in Edappallikotta – Kollam stretch. As on 31.3.2019, work in the Edappallikotta – Kollam stretch is in progress through contract. At Kayamkulam Kayal, the work of removing Chinese fishing nets from the NW.3 channel is yet to be completed by the State Government. Dredging will be taken up after removal of fishing nets.



Dredging, widening of narrow canals & bank protection works in Edappallikotta – Kollam stretch of NW-3

Protection of canal banks against erosion is another important activity for safe navigation in NW-3. IWAI has provided bank protection so far to 15.97 km of canal banks in Champakkara and Udyogmandal canals. In the narrow sections of canal between Alappuzha and Kollam wherever widening was undertaken, bank protection has been provided in a length of 12.44 km till 31.3.2019. Such work is in progress at Chavara and Kovilthottam near Kollam.

The progress of capital dredging and widening of narrow sections in NW-3 has been experiencing delay over the years due to various local issues related to disposal of dredged material, demand for extra bank protection and dredged spoil, frequent stoppage of works and litigations by the local people and objection by the fishermen. With new regulations regarding protection of wet lands etc., identifying disposal sites for material dredged from National Waterway has become extremely difficult. To resolve such problems and take the works forward, IWAI is making regular interactions with the State Government, but still, the long-drawn process for allotting dumping sites is causing considerable under utilization of IWAI's dredging capacity in NW-3.



Over Dimensional Cargo moved in Champakkara Canal of NW-3



Over Dimensional Cargo moved in Champakkara Canal of NW-3

The Irrigation Department of Govt. of Kerala was entrusted with reconstruction of new navigational lock at Thrikkunnappuzha (with dimensions of 61m long, 14.75 m wide and 6m (above HFL) vertical clearances), at a cost of Rs.38 crore with a scheduled completion period of 26 months and released 1/3rd of sanctioned cost to Govt. of Kerala. The construction of lock-gate is in progress by Irrigation Department, Govt. of Kerala on deposit basis.



Piling work by Govt. of Kerala – Construction of lock gate at Thrikkunnappuzha in NW-3



Inspection of the lock gate construction by IWAI and Govt. of Kerala Officials

The Irrigation Department, Govt of Kerala was entrusted with the replacement of lock shutters of 40 feet wide navigational lock at Thanneermukkom at a cost of Rs.2.85 crore on deposit basis. The shutters were replaced with stainless steel to avoid corrosion and maintenance free seamless operations.



View of Lock Gate Shutters on South side



View of Lock Gate Shutters on North side

6.2 IWT Terminals :

Cargo terminals have been constructed at 9 places (viz., Kottappuram, Aluva, Maradu, Vaikom, Thanneermukkom, Thrikkunnappuzha, Kayamkulam, Kollam and Alappuzha. Additional works are also carried out by CPWD at Alappuzha terminal for safety of the premises and to obtain NOC from Firefighting Department (still awaiting clearance) and allotment of building number. The above terminals are not attracting expected cargo mainly due to reluctance on the part of consignors and consignees to accept a modal shift to IWT mode.

6.3 Ro-Ro Terminals & Cargo movement :

Two Roll-on/Roll-off terminals within the Cochin Port area, one at Bolghatty and the other at Willington Island have been constructed by IWAI through Cochin Port Trust to provide connectivity with ICTT, Vallarpadam. By utilizing this facility, trucks / trailers bound for Vallarpadam need not pass through the congested roads of Kochi city. These terminals were in operation from February 2011 to June 2017. Total 2.58 lakh TEU's have been transported between these terminals by a Ro-Ro vessel operated under a contract with a private operator, till the operation was terminated in June 2017 due to the dispute between Operator and CoPT. In terms of tones, total cargo moved in NW.3 in an organized way by barges during 2018-19 was 4.283 lakh tones, which mainly consists of Sulphur, Phosphoric Acid, Liquefied Ammonia Gas, Rock Phosphorous etc.

6.4 Navigational Aids :

A total of 312 solar powered lighted buoys and 17 numbers beacon lights were maintained by IWAI all along NW. 3 to facilitate safe navigation round the clock.

6.5 New National Waterways in Kerala :

Following are the three new NWs in addition to extension of NW-3 declared in Kerala during April 2016 :

- Alappuzha-Changanassery Waterway (NW-8) - 28 km
- Alappuzha-Kottayam- Athirampuzha Waterway-(NW-9) - 38 km and
- Kottayam-Vaikom Waterway (NW-59) - 28 km

All the above new waterways in Kerala are directly connected to the existing NW. 3. Preparation of two stage DPR for the development of all the new waterways under progress. The copies of the draft feasibility reports are shared with Govt. of Kerala for their inputs and comments.

6.6 Alappuzha – Kottayam – Athirampuzha Canal (NW-9) :

The Alappuzha– Kottayam– Athirampuzha canal (NW-9) having 38 Km stretch was declared as NW-9 in April 2016. The NW-9 is passes through the Kodur River via., Kottayam Port (ICD) connecting the Kottayam Town with Kochi through NW-3. The container movement from Kottayam Port to Kochi Port was conducted on trial basis in March 2019 and regular movement of container is expected in future.



Navigational Aids fitted with solar lights provided in NW-9 in phase-1

Annual scheme for phase-1 development of NW-9 during the years 2017-18 & 2018-19 was approved at a cost of Rs.1.60 crore. Removal of water hyacinth to open up the waterway was attended and also 24 hours Navigational Aids / Buoys (25 nos.) was procured and installed during the year 2018-19 and maintained by IWAI.



Container transportation (on a trial run) in NW-9 and NW-3 from Kottayam Port to Kochi Port during March 2019

7. NATIONAL WATERWAY (NW) – 4

National Waterway – 4 was declared in 2008 for the length of 1,078 km comprising of the Kakinada – Puducherry stretch of Canals and the Kaluvelly Tank, Bhadrachalam – Rajahmundry stretch of River Godavari and Wazirabad – Vijayawada stretch of River Krishna. Further, the stretch has been extended by NW Act-2016 with additional reaches in the River Krishna from Wazirabad to Galagali (628 Km) and the River Godavari from Bhadrachalam to Nasik (1184Km). Total length of NW-4 after extension is 2890 km. A Project has been sanctioned for Rs. 96.0 cr for developing the stretch between Vijayawada to Muktyala (82 Km) of Krishna River in Phase-I. The important works during the year in the Phase-I stretch are as follows:

- i) Dredging work is in progress at critical shoal locations.
- ii) Land acquisition for permanent terminals at Muktyala, Harschandrapuram & Ibrahimpatnam are in Progress.
- iii) Construction of four floating terminals are in progress.

Proposal for formation of SPV with Govt of Andhra Pradesh for development of NW-4 in Andhra Pradesh and development of Phase-I & II of NW-4 at a cost of Rs. 7015 cr submitted to MoS. The above

proposals have been returned by the Ministry with a request to conduct a Comprehensive hydrographic and navigation study in Vijayawada – Kakinada & Rajahmundry – Polavaram stretches in Phase – II of NW – 4. Accordingly, a Comprehensive hydrographic and navigation study in Vijayawada – Kakinada & Rajahmundry – Polavaram stretches in Phase – II of NW – 4 is completed and the report is under finalisation.

Cargo movement between Ibrahimpatnam to Lingayapalam on Krishna river commenced and 4.50 Lakhs tons of cargo (Construction Material) has moved during 2018-19.



National Waterway-4



Ro-Ro movement in Krishna River

8. NATIONAL WATERWAY (NW) – 5

- 8.1 For developing 332 km stretch in 2 phases between Talcher & Paradip/Dhamra on NW-5, a Memorandum of Understanding (MoU) with Govt. of Odisha, Paradip Port & Dhamra Port Co. Ltd. Was signed by IWAI on 30.6.2014. The Phase-I development of 211 km stretch between Pankapal & paradip/Dhamra is already under progress. The 131 km stretch between Talcher & Pankapal and East Coast Canal (Dhamra - Charabtia -Geonkhali) will be taken up in the 2nd Phase. Another MoU has been signed with paradip port on 28.9.2016 for development of Phase -1 on NW-5, which includes all the Project Management Consultant (PMC) services.
- 8.2 Consultancy service for preparation of Detailed Project Report (DPR) followed by Front End Engineering Design (FEED) for construction of 4 Weirs/Barrages with 3 navigational locks, 2 Check Dams & 1 Rubber Dam with navigational lock etc. between Paradip / Dhamra and Pankapal stretch (Phase – I, 212 km) on NW- 5, Odisha was awarded to M/s Tractebel Engineering Pvt. Ltd. The Draft design of W1, W2, W3, W4, W5, C1&C2 has been prepared and submitted to CWC for examination and vetting under intimation to WRD, Odisha on dt 03-09-2019, 27-09-2019, 05-11-2019, 22-11-2019 & 06-12-2019.
- 8.3 Consultancy service for Preparation of Detailed Engineering Report (DER) including Detailed Engineering Design & Drawing (DED&D) for the existing bridges between Paradip/Dhamra stretch, which needs modification/re-construction on NW- 5, Odisha was awarded to M/s SM Consultants,

Bhubaneswar in February 2018. Draft GADs and design details shared with the concerned owner organisations, Final reports being prepared based on the observations received and submitted to respective authorities. The block cost estimate and implementation plan in connection with DER for all bridges with methodology of demolition of existing bridges are under finalisation.



- 8.4 An amount of Rs. 20.16 crore released to Central Electricity Supply Utility of Odisha (CESU) for shifting the HT/LT electric lines between Dhamra and Alapua & Mangalgadi to Hansua mouth. An amount of Rs 20.66 crore and Rs 2.86 crore released for shifting the HT/LT power lines between Alapua and Pankapal on NW-5 to North Eastern Electricity Supply Company of Odisha Limited (NESCO) and Odisha Power Transmission Corporation Limited (OPTCL) respectively. All the works are in progress and will be completed before June, 2020.
- 8.5 Application for Coastal Regulation Zone (CRZ) and Wildlife clearance submitted to OCZMA and views of OCZMA obtained. Steps are being taken for obtaining fresh ToR. A meeting for ToR appraisal was held on 25-26, Nov 2019 at New Delhi.
- 8.6 Monthly Longitudinal Thalweg Survey (MLTS) between Paradip/ Dhamra and Pankapal is being conducted through M/s Global Marine Infratech Pvt Ltd. Total 2744 line km was surveyed during this year 2018-19.
- 8.7 For development in phase-II (Pankapal to Talcher) hydrographic & topography survey has been completed. M/s TVIPL have submitted the draft report on 15-01-2020. IIT Guwahati has been requested for mathematical model study.

9. NATIONAL WATERWAY (NW) -16 (RIVER BARAK)

River Barak was declared as National Waterway-16 (NW-16) in the year 2016. It connects Silchar, Karimganj and Badarpur in Cachar valley of Assam with Haldia and Kolkata ports through Indo-Bangladesh Protocol (IBP) Route. The achievements of IWAI on NW-16 are enumerated as below:

9.1 Fairway Development

Work awarded to M/s Reach Dredging Barak SPV Pvt ltd for dredging and providing fairway maintenance for Least Available Depth of 2m along with provision of navigational aid for the Stretch-B {Ujjainigram (73km to Sridharpur (95 km)} and Stretch-C {Sridharpur (95 km) to Bhanga (121 km)} at a total cost of Rs. 15.36 crore and 15.41 crore respectively. The dredging work at both stretches was commenced from November'2017.

STATUS

- i) **Stretch – B (22 km) i.e Ujjaingram (Ch.73 km) to Siridharpur (Ch. 95 km) :-** The work in this stretch had commenced in November'2017 and 6.41 cu m quantity has been dredged at a total cost of Rs. 14.83 cr (excluding GST) upto March 2019
- ii) **Stretch – C (26 km) i.e Siridharpur (Ch. 95 km) to Bhanga (Ch. 121 km) :-** The work in this stretch was also commenced in November'2017 and is being continued by the contractor M/s RDBSPVPL. Till March 2019, 7.84 lakhs cu.m has been dredged at the total cost of Rs. 16.51 cr excluding GST.

Terminals

- i) Land availability Badarpur -1.34 acres (Ware House 29.84 x 16.07=479.53 sq.m) connecting NH-37 and Karimganj 1.87 acres land (Ware house 85 x 23 m =1955 sq.m, RCC Jetty 136.5 x 14.5 m) connecting NH-37 & 8.
- ii) Actions are being initiated for renovation and upgradation of these terminals through open tender process.

10. NEW NATIONAL WATERWAYS

(a) Goa-Waterways - [River Zuari (NW-101), River Cumberjua (NW-27), River Mondovi (NW-68)] -

A consolidated scheme for Rs.22.65 crore has been sanctioned by IWAI Board that comprises of provision for floating Concrete Jetty, night navigational aids & light houses.

As on date 1 no. floating concrete (India 1st concrete pontoon) was inaugurated by Hon'ble Minister of Shipping on 21.02.2020. The remaining 3 pontoons were slated to be inaugurated by July, 2020 but the same has been delayed due lockdown restrictions.

The night navigation tender was approved and slated to be floated by 26th March, 2020 but it has to be postponed due to lockdown restrictions. Fresh dates are being chalked out.

(b) Gujarat Waterways - [River Narmada (NW-73) & River Tapi (NW-100)] -

The relevant details are being worked out. Developmental activities has been proposed in propagated SFC note in consultation with State Govt.

- (c) **Maharashtra Waterways - [AMBA RIVER (NW-10), DABHOL CREEK -VASHISHTI RIVER SYSTEM (NW-28), KALYAN-THANE-MUMBAI WATERWAY, VASAI CREEK AND ULHAS RIVER SYSTEM (NW-53) & REVADANDA CREEK - KUNDALIKA RIVER SYSTEM (NW-85)]-**

The relevant details are being worked out. Developmental activities has been proposed in propagated SFC note in consultation with State Govt.

11. INDO-BANGLADESH PROTOCOL ON TRANSIT & TRADE

11.1 Protocol on Inland Water Transit & Trade (PIWT&T) between India and Bangladesh:

- (i) Article VIII of the Trade agreement entered into between the Government of the Republic of India and the Government of the People’s Republic of Bangladesh (dated 06 June 2015) provides for mutually beneficial arrangements by the two Governments for the use of their waterways, roadways and railways for commerce between the two countries and for passage of goods between two places in one country and to third countries through the territory of the other. The ‘Protocol on Inland Water Transit and Trade’ (PIWT&T) elaborates on the mutually agreed terms for the use of waterways. The agreement was first signed in 1972 and the present protocol agreement is valid up to June 2020 after which it will be automatically renewed for five years, unless terminated.

PORTS OF CALL	
India	Bangladesh
Kolkata	Narayanganj
Haldia	Khulna
Karimganj	Mongla
Pandu	Sirajganj
Silghat	Ashuganj
Dhubri	Pangaon

- ii) A MoU and SoP for movement of Cruise and Passenger vessel on Indo-Bangladesh Protocol Route (IBP) in October, 2018 have also been signed between India and Bangladesh. Four river cruises have completed their voyage from Kolkata – Dhaka - Guwahati stretch or vice-versa since then successfully.
- iii) The Memorandum of Understanding (MoU) on development of fairway from Sirajganj to Daikhowa and Ashuganj to Zakiganj on Indo-Bangladesh Protocol route between Govt. of India and Bangladesh was signed on 08th April 2017. The estimated cost of the project is Rs. 305.84 cr. Bangladesh to adopt a cost of sharing ratio of 80:20 between India and Bangladesh. This projected is funded by MEA, Govt. of India. The Status of Fairway Development works in IBP route for Connectivity of NW-1, NW-2 and NW-16 is as under:-

Status of Fairway Development works

(A) Ashuganj-Zakiganj (295 km) stretch of Kushiya river

- (a) BIWTA awarded the work to M/s Dharti-Banga JV on 04.10.2018 at the total cost of BDT 95.49 Cr through open tendering. Agreement signed on 16.10.2018 for 02

years initial dredging (15 lakhs cu.m) and 05 years maintenance Dredging (4.5 lakh cu.m per year)

- (b) Pre dredging survey completed in January'2019. 02 dredgers are deployed and dredging has commenced from 31-03-2019. The Dredging was stopped from 06-05-19 due heavy current during monsoon and is resumed from 3rd week of December'2019. Till date 39137.50 cum quantity has been dredged.

(B) Sirajganj-Daikhowa (175 km) stretch of Jamuna river

- (a) BIWTA awarded the work to M/s Dharti-Banga JV on 11.11.2018 at the total cost of BDT 227.46 Cr through open tendering. Agreement signed on 25.11.2018 for 02 years initial dredging (36 lakhs cu.m) and 05 years maintenance Dredging (10.80 lakh cu.m per year). Pre dredging survey under process.

(C) Appointment of PMC

MEA has approved 'in-principle' funding of additional cost (6% of the tendered cost of ₹ 258.84 cr + GST) amounting to ₹ 12.4 cr + GST (MEA share @ 80% of total cost of ₹ 15.5 cr; Govt of Bangladesh share is ₹ 3.1 cr) to be shared on 80:20 basis between Govt of India and Govt of Bangladesh for appointment of PMC for monitoring and supervision of the dredging project. BIWTA has floated the tender and evaluation of technical bids under process.

- iv) India and Bangladesh have also agreed to consider inclusion of Rupnarayan river (National Waterway-86) from Geonkhali to Kolaghat in the protocol route. Rajshahi, Sultanganj, Chilmari, Daudkandi and Bahadurabad in Bangladesh and Dhulian, Maia, Kolaghat, Sonamura and Jogighopa are also agreed as a new Ports of Call in India under PIWT&T. Further, both sides agreed to declare Badarpur on river Barak (NW-16) as an Extended Port of Call of Karimganj in Assam and Ghorasal of Ashuganj in Bangladesh on reciprocal basis.
- v) Both countries have also agreed to introduce trade between Chilmari (Bangladesh) and Dhubri (India) route of PIWT&T.
- vi) It is also agreed by both the country to include Gumti river in Tripura in India and Bangladesh between Daudkandi and Sonamura in PIWT&T and extend existing protocol route between Rajshahi-Godagari-Dhulian stretch upto Aricha in Bangladesh.

12. INDO-MYANMAR KALADAN MULTIMODAL TRANSIT TRANSPORT PROJECT

The project is being implemented to provide an alternate connectivity to North East through Kaladan river & Sittwe Port in Myanmar. The project includes road connectivity from Mizoram to Paletwa (Myanmar), thereafter waterway connectivity from Paletwa to Sittwe (Myanmar) & coastal connectivity from Sittwe to any port in India and vice versa.

IWAI is the Project Development Consultant (PDC) of Ministry of External Affairs (MEA) for implementation of Port & IWT components of Kaladan Multimodal Transit Transport Project in Myanmar. The project is piloted and funded by MEA. An agreement between MEA and IWAI in this regard was signed on 19th March, 2009.

M/s Essar Project (India) Ltd. (EPIL) is the main contractor appointed by MEA for the works being implemented in Myanmar under IWAI's supervision. M/s URS Scott Wilson India Pvt. Ltd., Gurgaon are IWAI's Supervision Consultant for the project.

The Phase – I works of the project are completed. The highlights of Phase – I works are as follows:

A. Phase – I works

1. Sittwe

- Reclamation of land for backup facilities.
- Construction of Rubble Mounted Dyke.
- The approach Jetty for both the Port & IWT jetty.
- Construction of Port at Sittwe
- Construction of IWT Terminal at Sittwe
- Dredging access channel and port basin at Sittwe port.
- Construction of backup facilities structures (Port Office, IWT Office, Covered Storage, Electrical & Generator Room, Canteen / Rest Room etc.)
- Erection of 10 T Level Luffing crane at Port Jetty and supply of other cargo handling equipments for Sittwe & Paletwa

2. Paletwa

- IWT terminal.
- Backup facility works like IWT office, Covered storage, Electrical & Generator Room, Canteen / Rest room etc.

3. River dredging work

4. Construction of 6 nos. of Barges 300 T capacities.

5. Installation of Navigational aids.

In addition to above, some additional works under Phase – I at Sittwe & Paletwa are also completed through EPIL.

B. Phase – II works

IWAI is the PDC for implementation of the Phase – II works also. The works envisaged during Phase – II are as under:

- a) Construction of Container handling facility at Sittwe / Paletwa including preparation of Detailed Project Report (DPR) – DPR Prepared.
- b) Wreck removal from Sittwe Port Basin area: - Wrecks removal work from Sittwe Port Basin area is completed.

- c) Operation & Maintenance (O&M) of completed project components – MEA has decided to appoint an operator for commercial utilisation of facilities for Port & IWT component through competitive bid on long term revenue sharing basis. Accordingly, the tender for the O&M work for three years has been prepared and submitted to MEA. MEA has conveyed the approval of tender document on 20.03.2019. Due to model code of conduct the permission from Election Commission is sought for floating the tender.

IWAI in its role of PDC maintained regular coordination with all relevant stake holders like MEA, Embassy of India – Yangon, Ministry of Shipping, Ministry of DoNER, Govt. of Myanmar, Contractors and Consultants for implementation of the project.

13. HYDROGRAPHY SURVEY ACTIVITIES

Hydrographic survey is a pre-requisite for studies of waterway development and for safety of navigation. Hydrographic survey is the science of measurement and descriptions of features which affect navigation, marine construction, dredging, submerged wrecks and other feature demarcation and related activities. Hydrographic survey is the back-bone activity in decision making, whether it is related to planning and execution of developmental & maintenance activities, providing information to mariners/ users, publication of nautical charts etc. as an aid to safe navigation. The hydrographic wing also publishes Navigation Atlas & Pilots for the National Waterways providing supplementary information to the mariners.

It would be apt to say “There can be no exploitation of marine resources without exploration and there can be no exploration without Hydrography”.

Modern techniques using Automatic Hydrographic Survey System with Global Positioning System (GPS) are used for achieving better accuracy in surveys. The final stages of the hydrographic process use the raw data collected through hydrographic survey into information usable by the end user for analysis and safe navigation. Hydrographic survey capabilities have been enhanced with introduction of latest survey equipment viz. Bathy-swath Multibeam Echo-Sounder, Acoustic Doppler Current Profiler (ADCP), Side Scan Sonar and Sub-Bottom Profiler.

13.1 NATIONAL WATERWAY - 1 (Haldia-Allahabad)

- **THALWEG SURVEYS**

During the year, Thalweg (longitudinal) surveys were conducted departmentally on fortnightly basis in lean season & monthly basis during floods and River Notices issued (both in English & Hindi) to the IWT users. Total 28314 Line-Km of Thalweg surveys were undertaken during the year 2018-19.

- **DETAILED / BANDALLING/ DREDGING SURVEYS**

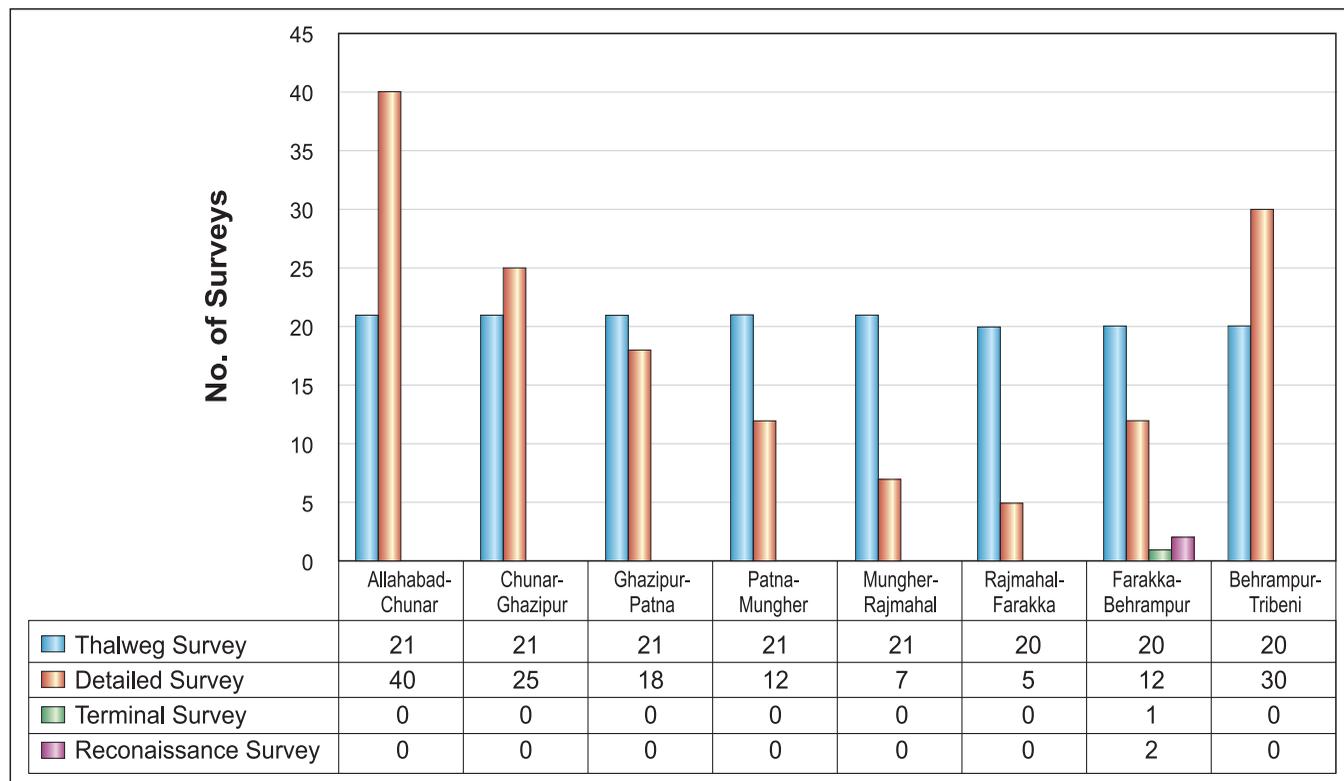
During the year, Pre & Post Bandalling/ Dredging and Detailed surveys were conducted departmentally at 117 shoal locations, details are indicated in the form of Bar-Chart.

- **TERMINAL SURVEYS**

During the year, Terminal Surveys were carried out at 01 nos. existing terminals / proposed terminals.

A graph depicting various surveys activities in NW-1 has been shown below:

Survey Activities of NW-1



13.2 Indo-Bangladesh Protocol Route (Sunderbans)

During the year, Monthly Thalweg survey was carried out in Indo-Bangladesh Protocol route from Silver Tree point to Atharabanki Khal. Total 2,412 Line-Km of Thalweg surveys were conducted and LAD & River Notices published on IWAI web site.

13.3 NATIONAL WATERWAY - 2 (River Brahmaputra)

- THALWEG SURVEYS**

During the year, Thalweg surveys were conducted departmentally on fortnightly basis in lean season & monthly basis during floods and River Notices issued (both in English & Hindi) to the IWT users. Total 15480Line-Km of Thalweg surveys were undertaken during the year 2018-19.

- DETAILED / BANDALLING/ DREDGING SURVEYS**

During the year, Pre / Post Bandalling/ Dredging and Detailed surveys were conducted departmentally at 98 shoal locations for undertaking RC works and ensure smooth navigation. Details are indicated in the form of Bar-Chart.

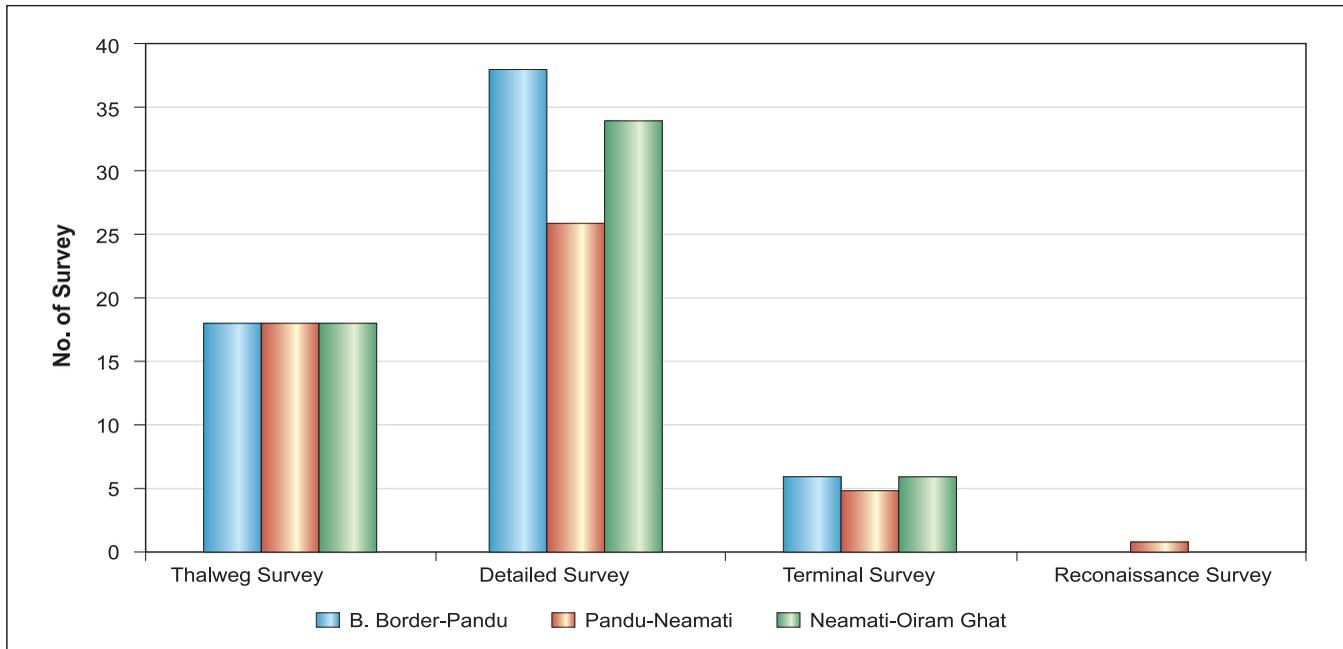
- TERMINAL SURVEYS**

17 nos. of terminal surveys were carried out at existing / proposed terminals sites during the 2018-19 year.

• **RECONNAISSANCE SURVEYS**

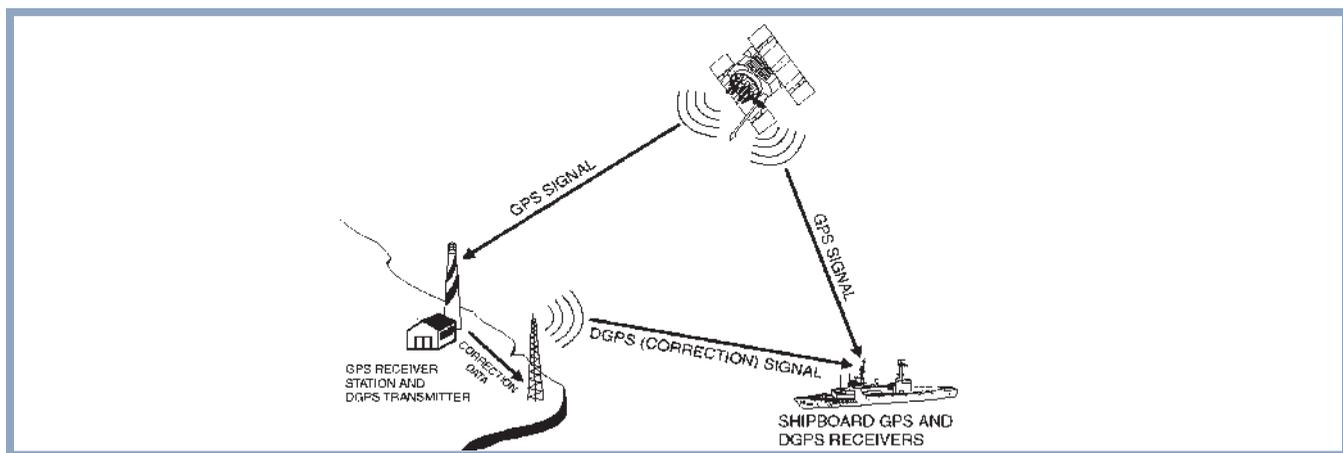
IWAI has undertaken 1 nos. Reconnaissance (Thalweg) Surveys at Gumti River (Tripura) other than NW-2 during the year 2018-19.

A graph depicting various surveys activities in NW-2 has been shown below:



13.4 DGPS Based Navigation Systems: -

Keeping in view the commitment to introduce more reliable and safe inland navigation methods, IWAI had introduced navigation with DGPS (Differential Global Positioning System) technique in National Waterway 1 & 2. In this project, DGPS stations at Swaroopganj, Bhagalpur, Patna & Varanasi in NW-1 and Dhubri, Jogighoppa, Biswanath & Dibrugarh in NW-2 have already been commissioned and are operational. Presently, DGPS connectivity is available for entire stretch of NW-1 (1547 Kms) and NW-2 (891 Kms).



Working Principle of DGPS Station

The DGPS network facilitate efficient voyage of vessels plying in National Waterway-1 (the Ganga -Bhagirathi - Hooghly river system between Haldia and Allahabad) and National Waterway -2 (the Brahmaputra river between Sadiya and Dhubri).

The additional station at Dhubri is facilitating safe and effective navigation in the Indo-Bangladesh Protocol routes. These stations are planned in such a manner so as to get a radial coverage of 150 Km (approx.) with sub-meter accuracy in position.

13.5 NATIONAL WATERWAY -3 (West Coast Canal, Udyogmandal & Champakara Canals)

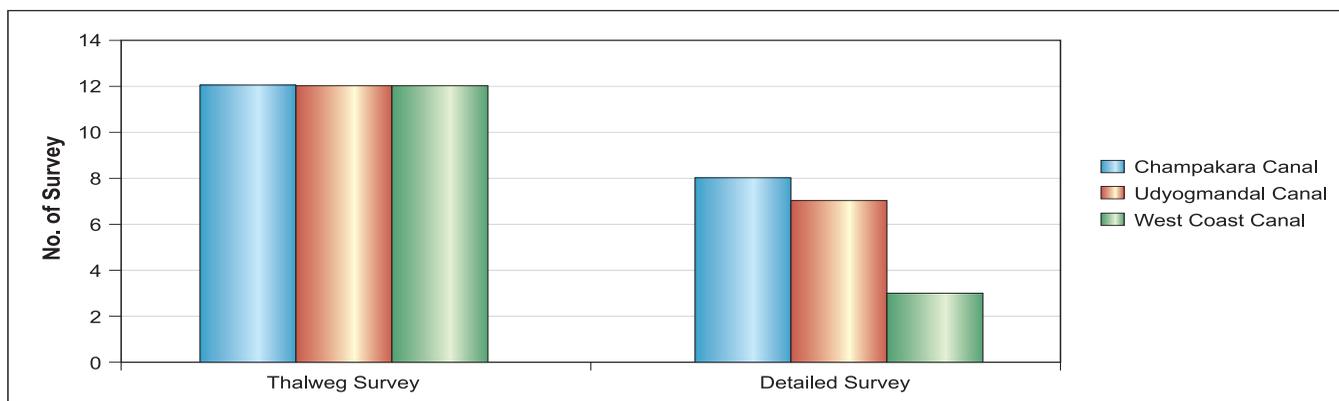
- THALWEG SURVEYS**

The Thalweg surveys are carried out monthly departmentally in Kottapuram – Kochi - Kollam stretch (West Coast Canal alongwith Udyogmandal & Champakara Canals) and River Notices were issued (both in English & Hindi). Total 2,757.60Line-Km of Thalweg surveys were undertaken during the year 2018-19.

- DETAILED SURVEYS**

Pre & Post dredging Surveys were carried out at 18 nos. locations during 2018-19.

A graph depicting various surveys activities in NW-3 has been shown below:



13.6 NATIONAL WATERWAY - 4 (The Kakinada-Puducherry stretch of Canals integrated Bhadrachalam- Rajahmundry stretch of River Godavari and Wazira- Vijayawada stretch of River Krishna)

During the year 2018-19, 1 no. Thalweg survey of Total 63.58 Line-Km were conducted. Pre & Post dredging Surveys were carried out at 48 nos. locations during 2018-19.

13.7 NATIONAL WATERWAY -5 (East Coast Canal alongwith Brahmani & Mahanadi Delta)

During the year 2018-19, 12 no. Thalweg survey of Total 2828.679 Line-Km were conducted.

13.8 NATIONAL WATERWAY -9

During the year 2018-19, 1 no. Thalweg survey of Total 27.00 Line-Km were conducted.

13.9 NATIONAL WATERWAY -16 (River Barak)

During the year 2018-19, 2 no. Thalweg survey of Total 96.00 Line-Km were conducted.

13.10 NATIONAL WATERWAY -37 (River Gandak)

During the year 2018-19, 9 no. Thalweg survey of Total 2250.00 Line-Km were conducted. Pre & Post Bandal and Detailed Hyd. Surveys were carried out at 18 nos. locations during 2018-19.

13.11 NATIONAL WATERWAY-86 (River Rupnarayan)

During the year 2018-19, 24 no. Thalweg survey of Total 888.00 Line-Km were conducted.

13.12 SURVEY VESSELS

IWAI has deployed 18 nos. Survey vessels fitted with the state-of-the art survey equipment like Automated Hydrographic Survey System integrated with Digital echo sounder, DGPS receivers, laptop/desktop and current-meter sets for data collection, processing and printing.

The following survey vessels in different waterways are operational and deployed for survey work:-

National Waterway	Name of Vessel			
NW-1	1) S.L. Koel	2) S.L. Gandak	3) S.L. Meghna	4) S.L. Anupallav
	5) S.L. Kamla	6) S.L. Ghaghra	7) S.L. Mandakini	8) S.L. Dwarkeswar
	9) S.L. Punpun	10) S.L. Rihand	11) S.L. Dihang	12) S.L. Ganga
	13) S.L. Jahanvi			
NW-2	1) S.L. Lohit	2) S.L. Barak	3) S.L. Subansiri	4) S.L. Burhi Dihing
	5) S.L. Dibang	6) S.L. Kosi		
NW-3	1) S.L. Pamba			

13.13 Setting up of River Information Services (RIS) system in Haldia-Farakka, Farakka-Patna & Patna-Varanasi stretch:

IWAI launches a River Information System (RIS) on lines of Vessel Traffic Management System (VTMS). IWAI has taken up the above technologically challenging project of setting up of River Information Service System on National Waterway -1 (Ganga) for the first time in India. The project is being implemented in three phases, viz. Haldia-Farakka, Farakka-Patna, and Patna-Varanasi. Details are as follows:

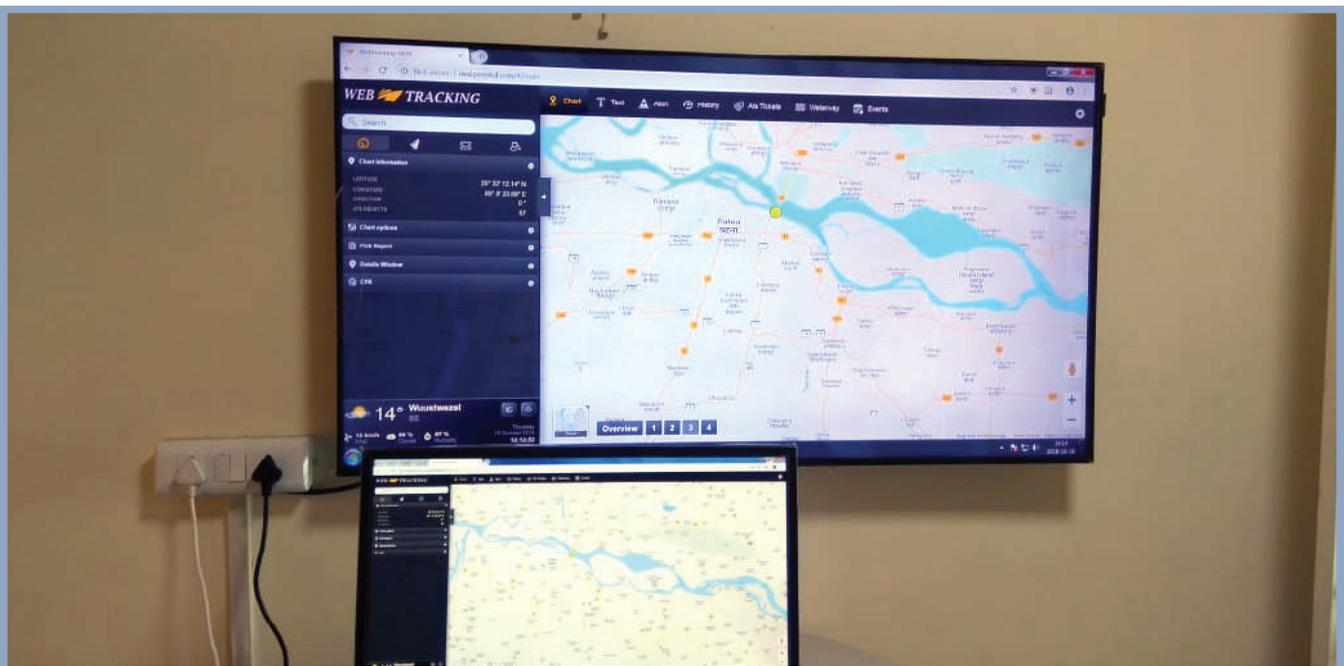
	Phase -I: Haldia –Farakka	Phase -II: Farakka-Patna	Phase -III: Patna-Varanasi
Coverage	545 Km	410 Km	353 Km
Infrastructures	<ul style="list-style-type: none"> • 7 base stations • 2 Control stations • 30 Vessels station • Work awarded on 27.04.2014 	<ul style="list-style-type: none"> • 6 Base stations • 1 Control station • Work awarded on 05.06.2015 	<ul style="list-style-type: none"> • 4 Base stations • 1 Control station • Work awarded on 03.03.2016
Status	Commissioned on 06.01.2016	Commissioned on 15.03.2018	Installation is under progress.

The system would facilitate enhancement of inland navigation safety in ports/ river and enable efficient inland water transport by avoiding risks such as:

- a) Ship-to-Ship collisions.
- b) Ship-Bridge collisions.
- c) Groundings.



On board River Information System (RIS) Equipment



Display at RIS base station

13.14 CARTOGRAPHIC CELL/ SEMINARS/ TRAINING

The Cartographic cell in IWAI Head Office Noida is equipped with modern equipment and software for preparation of Digital Charts using information System (GIS) & Image processing software like CARIS, ERDAS Imagine, AutoCAD etc. The Cartographers of IWAI have been trained in using GIS software and Image processing software etc.

In Cartographic section the newly identified 106 Waterways have been explored and river course have been digitized using state of the art computer hardware and software installed in Cartographic Lab for preparation of index map of New Waterways.

The IWAI is carrying out surveys from 1986 for development of the National Waterways. Section 14(2)(c) of the IWAI Act 2016 envisages carrying out Hydrographic surveys and publishing of river charts & IWAI has Published River Atlas & river Pilots National Waterways No.- 1,2,3 and Sunderbans for safe navigation purpose are as follows: -

Sl. No.	NW	Description	No. of Charts
1.	NW 1	Sagar to Allahabad (Paper Charts)	103
2.	NW 2	Bangladesh border to Sadiya (Paper charts)	40
3.	NW 3	Kottapuram to Kollam including Champakara and Udyogmandal canals (Paper Charts)	49
4.	SUNDERBANS	Namkhana to Athrabankikhan	25
5.	NW 1	Updation of Sagar to Farakka (Paper chart) Production of New ENC's	66
6.	NW 1	Farakka to Patna (Paper Chart and ENC's)	

During the year 2018-19 Satellite data from National Remote Sensing Centre, Hyderabad for Waterways was obtained and the same have been processed, digitized using GIS Software. The land marks, topographical features of survey of India (SOI) digital data were compiled along with field survey data (from Hypack) and latest NRSC data for preparation of electronic Charts.

The cartographic department is being by set up Hydrographic Production Database of new generation.

IWAI is corporate Member of INCA and participated in 38th INCA International Congress held at Hyderabad during 29-31 October 2018.

13.14.1 Selling of Map, Atlas and Navigational Products 2018-2019:

An amount of Rs. 36,350 only has been collected through sale of Map, Atlas and Navigational products in 2018-19, to IWAI operator users, Private and Govt. departments. Details as shown below:

SI#	Particulars Map/Atlas/Pilot	Amount in Rs
1	Atlas National Waterway-1	25000.00
2	Atlas National Waterway-2	10000.00
3	River Pilot NW-1	650.00
4	River Pilot NW-2	700.00
Total Amount		36,350.00
In words: (Rupees Thirty Six Thousand Three Hundred Fifty Only)		

14. NATIONAL INLAND NAVIGATION INSTITUTE (NINI), PATNA

The National Inland Navigation Institute (NINI) was set up by Inland Waterways Authority of India (IWAI) at Patna, Bihar in February 2004 with a view to develop human resource for the Inland Water Transport sector. The management and administration of NINI, Patna is under the management of IWAI. The major achievements during the year 2018-19 were as below:

A. ACTIVITIES

(i) The following training activities were carried out:

- Induction Training GP Rating Course (29th & 30th Batch)
- Conducted internal final examinations (written and oral) for General Purpose Rating Induction courses in the months of July, 2018 and January, 2019.
- The GP Rating (IV) trainees were imparted practical training on board training ship Survekshak, CSD Buxar, Inland Vessel Training Simulator and Dredging Simulator.
- A Course was conducted successfully for BSF water wing personnel for preparatory and basic safety.
- A course was conducted successfully for Bihar Government personnel for Boat Surveyor & Registering Officers.
- A course was conducted successfully for Refresher training for IWT Assam personnel.
- Training in the following DG Approved Courses was provided:
 - o Elementary First Aid (EFA)
 - o Fire Prevention and Fire Fighting (FPFF)
 - o Personal Survival Technique (PST)
 - o Personal Safety and Social Responsibility (PSSR)
 - o Radar Observer Simulator Course (ROSC)
 - o Automatic Radar Plotting Aid (ARPA)
 - o Ship Maneuvering Simulator (SMS)
 - o Electronic Chart Display & Information System (ECDIS)
 - o Bridge Team Management (BTM)



Practical Training of fire fighting and PST Students

(ii) Preparatory Course for Inland Vessel Certificate of Competency

- Conducted the following Preparatory Courses for Inland Vessel Examinations:
 - o Serang
 - o Master Class II
 - o Master Class I
 - o Second Class Engine Driver
 - o First Class Engine Driver
 - o Inland Engineer

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

- Examination conducted for candidates desiring to obtain Certificate of Competency for different categories mentioned below as per Inland Vessel Rules, Govt. of Bihar:
 - o Serang
 - o Master Class II
 - o Master Class I
 - o Second Class Engine Driver
 - o First Class Engine Driver
 - o Inland Engineer

	Serang	Master Class-II	Master Class-I	Engine Driver Class-II	Engine Driver Class-I	IV Engineer
Total Passed	171	49	132	210	59	5

B. TRAINING

NINI conducts training on regular basis and advertises its course schedule in maritime magazines and national newspapers.

- Placement of trainees for undergoing Induction courses on Deck and Engine arranged with private barge operators.
- The Training records books issued to trainees placed on various vessels as on board trainees.
- NINI keeps a record of all the trainees on vessels for their leaves, payments and trainings through a separate placement cell.
- Database of COC examination and certificates being maintained.

Total Trained Detail for the F.Y. 2018-19

Sl No	Name of Courses	No. of Trainees
1	Induction Course for IV GP Rating	50
2	Preparatory course for Serang	8
3	Preparatory course for Master II	26
4	Preparatory course for Master I	10
5	Preparatory course for Engine Driver II	15
6	Preparatory course for Engine Driver I	24
7	Preparatory course for I.V. Engineer	3
8	Near Coastal Voyage (NCV (NWKO))	2
9	Inland Vessel Maneuvering Simulator Course	10
10	Master Trainer for Boat Surveyor Course	401
11	Fire Prevention and Fire Fighting (FPFF)	27
12	Personal Safety and Social Responsibility (PSSR)	21
13	Personal Survival Techniques (PST)	19
14	Elementary First Aid (EFA)	12
15	Electronic Chart Display Information System (ECDIS)	6
16	Bridge Team Management (BTM)	15
17	Ship Maneuvering Simulator (SMS)	9
18	Master Trainer Course for “Safe Swim” Programme	30
19	Overseeing of Ship Building including Survey and Certification of IWAI Vessel	25
20	Training to CRPF Personnel	38
21	Large Ship Handling Simulator	2
22	Basic Safety Course (STCW)	221
Total		974

The number of candidate total trained in the various courses at NINI during the F.Y. 2018-19 is 974.

C. HUMAN RESOURCE

The Institute has developed a pool of faculty members and instructors for management of the Institute. The Institute deploys faculty in three categories namely regular consulting faculty, regular visiting faculty and need based visiting faculty.



Participated in 9th Agro Summit Bihar at Patna and Gramodaya Mela at Chitrakoot, M.P

D. AFFILIATIONS AND ASSOCIATIONS:

- The ISO 9001:2015 certificate by American Bureau of Shipping (ABS) renewed subsequent to their inspection of the Institute.
- NINI conducts the COC (Certificate of Competency) exams in NINI Campus on behalf of IWT, Bihar.

15. DETAILS OF TRAFFIC, CARGO MOVEMENT & OTHER HIGHLIGHTS

Traffic highlights

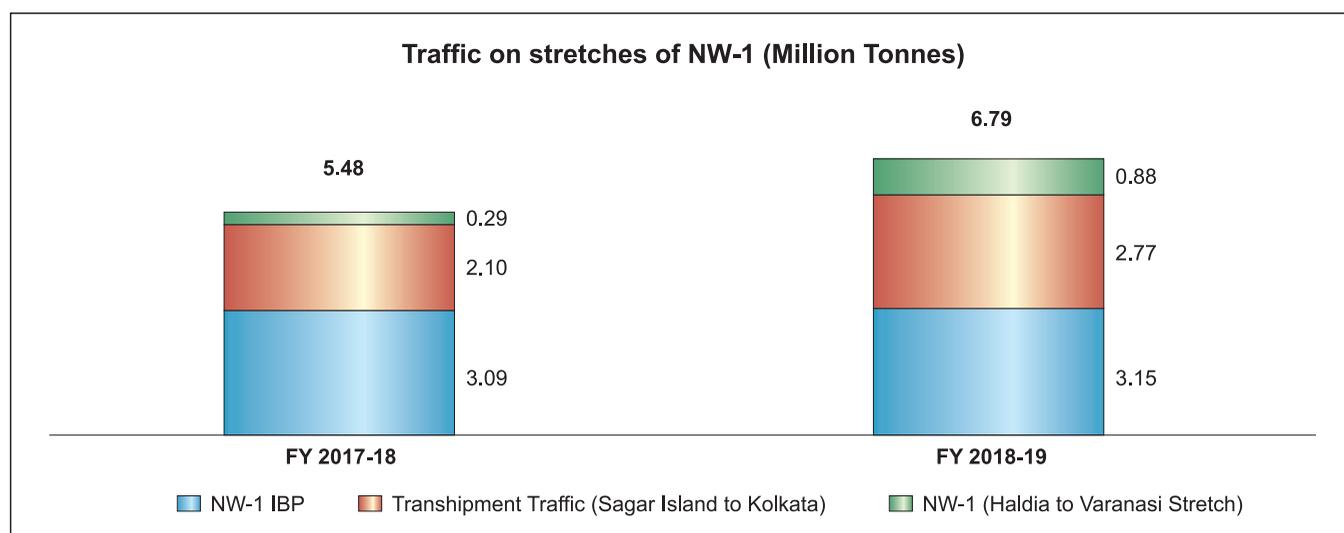
The traffic on the national waterways during the financial year 2018-19 stood at 72.31 million tonnes, an increase of ~32% from the previous financial year 2017-18. In this financial year, NW-4 and NW-97 (Sundarban waterways) were added to the list of operational waterways taking the count of operational National Waterways to 13. Traffic on these operational National Waterways is shown in the table below:

SI. No	National Waterways	FY 2017-18 (Metric Tonnes)	FY 2018 - 19 (Metric Tonnes)
1	NW - 1 (Ganga- Bhagirathi - Hooghly river)	5,480,000	6,793,981
2	NW - 2 (Brahmaputra river)	561,469	502,003
3	NW - 3 (West Coast Canal, Champakara canal and Udyogmandal canal)	427,988	408,790
4	NW - 4 (Krishna river)	NA	452,066
Sub Total (National Waterways 1-4)		6,469,457	8,156,840
Maharashtra Waterways			
5	NW-10 (Amba river)		22,381,100
6	NW-83 (Rajpuri creek)		816,205
7	NW-85 (Revdanda creek &Kundalika River)		1,769,947
8	NW-91 (Shastri River-Jaigad Fort creek)		3,374,399
Total		25,960,000	28,341,651
Goa Waterways			
9	NW-68 (Mandovi river)		1,653,751
10	NW-111 (Zuari river)		2,104,219
Total		11,090,000	3,757,970

SI. No	National Waterways	FY 2017-18 (Metric Tonnes)	FY 2018 - 19 (Metric Tonnes)
Gujarat Waterways			
11	NW-73 (Narmada river)		40,941
12	NW-100 (Tapi river)		28,780,183
Total		11,520,000	28,821,124
13	(NW-97) Sundarbans		3,227,460
Grand Total (in Metric Tonnes)		55,039,457	72,305,044
Grand Total (in Million Metric Tonnes)		55.03	72.31

NW-1: An increase in traffic of approximately ~1.32 million tonnes has been achieved on National Waterway-1. This increase has been observed on various stretches of NW-1 i) transshipment traffic from Sagar Island to Kolkata and ii) Indo- Bangladesh protocol (IBP) route traffic and iii) Stretches of NW-1 between Haldia and Varanasi (longitudinal as well as Ro-Ro). The break-up of traffic on NW-1 on above three routes (IBP route, transshipment from Sagar Island to Kolkata and other NW-1) is shown in the figure below.

Figure 1: Traffic break up on different routes of NW-1 (in million tonnes)



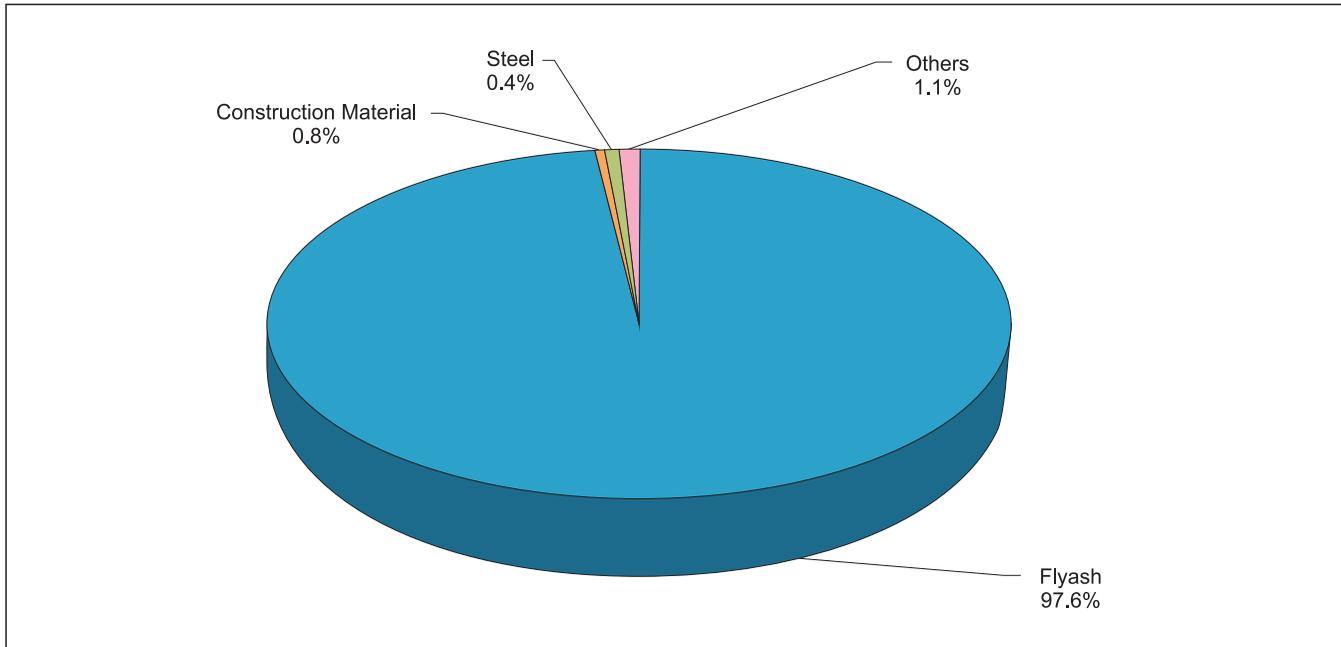
The Traffic on different stretches between Haldia and Varanasi on NW-1 increased from 0.29 million tonnes to 0.88 million tonnes on account of increase in movement of construction materials at Sahibganj (Ro-Ro service across the River). The transshipment traffic (between Sagar Island and Kolkata) witnessed an increase of 33% from 2.1 million tonnes to ~2.8 million tonnes on account of increase in trade and economic activity.

Traffic on the Indo – Bangladesh Protocol route

- More than 600 inland vessels completed approximately 3,600 loaded voyages transporting approx. 3.15 MT cargo on the Indo-Bangladesh Protocol Route in FY 2018-19. The traffic on IBP route is predominantly the movement of fly ash from Kolkata / Haldia to cement companies in Bangladesh.

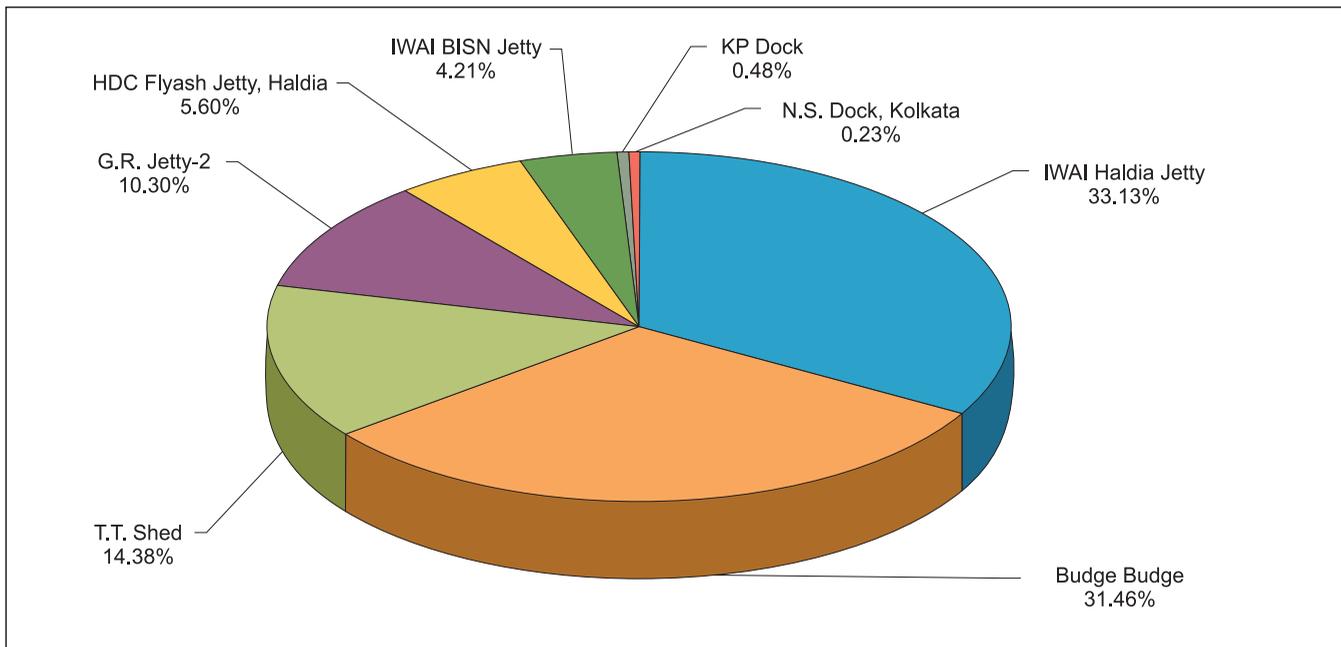
Fly ash accounted for approximately 98% of the share of total IBP traffic and increased marginally by ~ 1% in FY 2018-19 compared to FY2017-18, while other commodities did not show any particular growth. The share of commodities transported on the IBP route is shown in the figure below:

Figure 2: Traffic and share of commodities on IBP route FY 2018-19 (Metric Tonnes)



- The cargo is transported from the jetties of IWAI, Kolkata port and Haldia port. The share of cargo transported from these jetties is shown in the figure below.

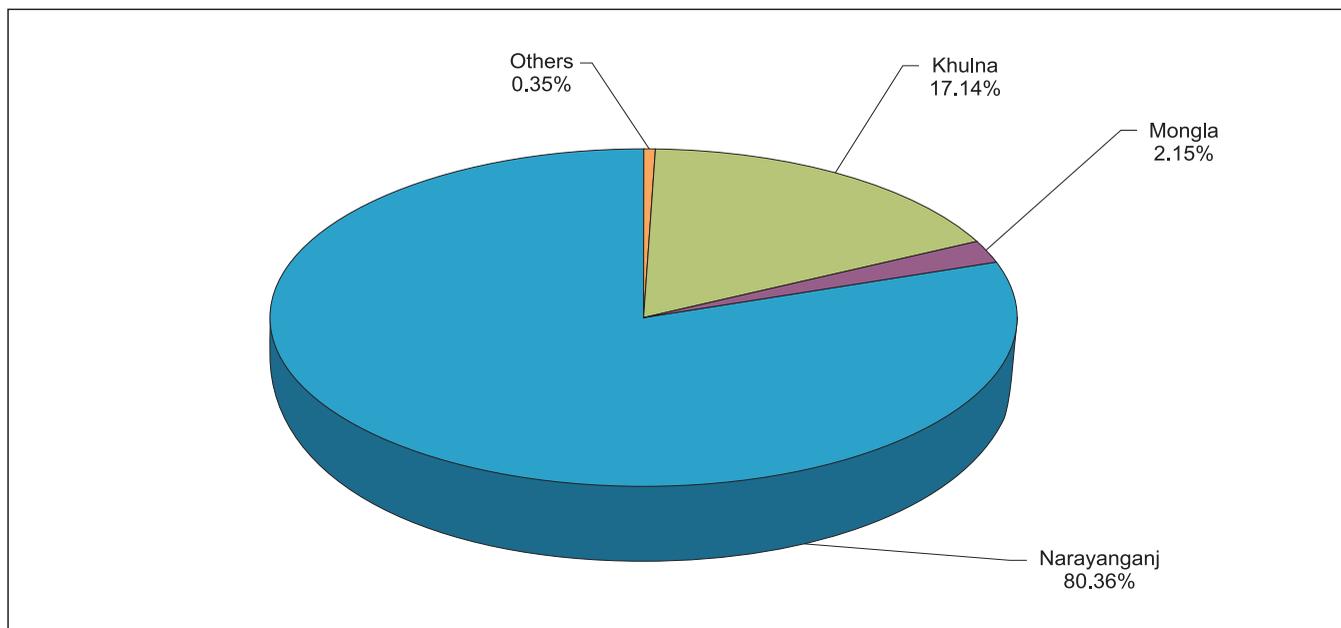
Figure 3: Jetty wise IBP traffic (in percentage)



IWAI Haldia jetty, Budge budge, handled ~65% of the total IBP traffic volume (flyash is transported from these jetties). TT shed handles ~14% of the cargo while GR jetty handles ~ 10% of the total IBP cargo (flyash is transported from these jetties). Other berths / jetties at KOPT such as KP dock, NS dock handle other commodities (steel products, ODC cargo is transported).

- The destination jetties and their share in the total IBP route cargo is shown in the figure below:

Figure 4: Jetty wise IBP traffic (in percentage)

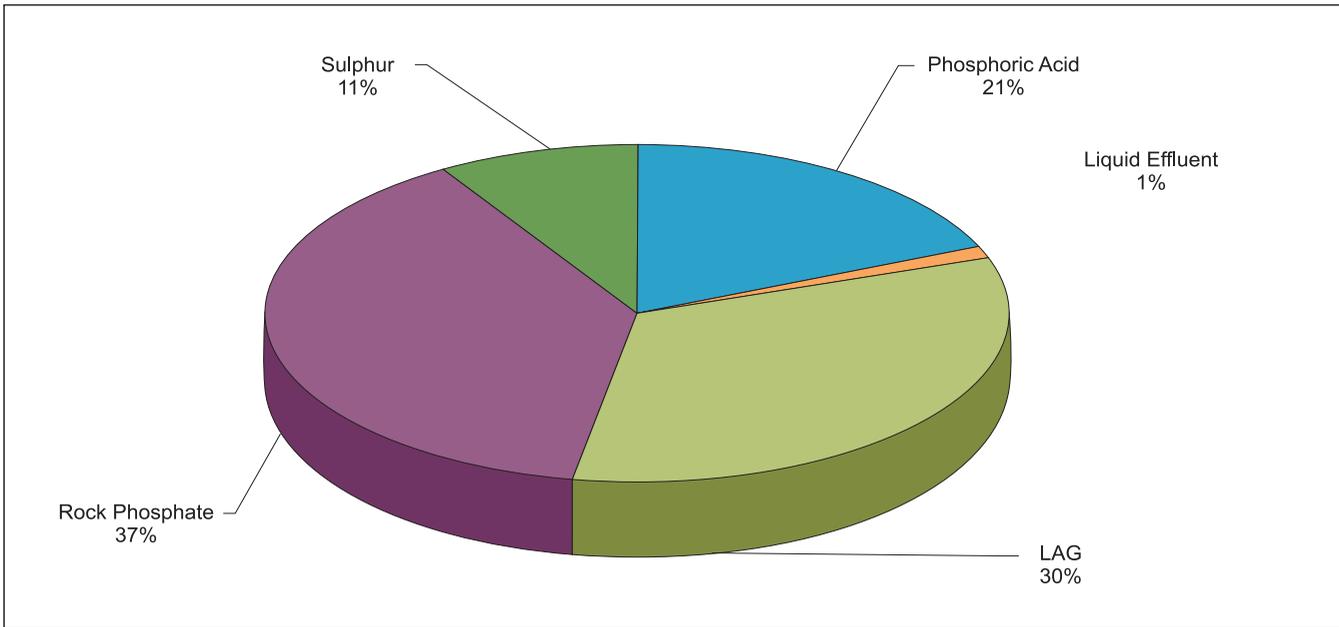


It can be observed that 81% of the cargo in the IBP route is destined to Narayanganj, which is a hub for cement companies in Bangladesh. Other major cement producing region is Khulna which accounts for 17% share of total cargo on IBP route. Other destinations in Bangladesh include Mongla and Ashuganj. IBP Transit cargo which has negligible share is destined towards Pandu, Jogigopa, Dhubri.

Developments along the IBP route such as dredging on 2 stretches: Sirjganj – Dhaikhawa and Ashuganj – Zakiganj for achieving L.A.D of 2.5 m throughout out the year and agreed inclusion of Kolaghat, Dhulian, Maia, Sonamura in India and Chilmari, Rajshahi, Sultanganj, and Daudkandi in Bangladesh as new ports of call and Ghorasal, Badarpur, Tribeni, Muktarpur as extended ports of call under PIWTT between India and Bangladesh is expected to drive the traffic potential along the IBP route.

- Traffic on NW-2, which essentially consists of movement of household goods and miscellaneous between various destinations within NW-2 did not witness any significant change over the last financial year (FY 2017-18).
- The traffic on NW-3 declined marginally during the financial year 2018-19 compared to the previous financial year. The commodities transported on NW-3 are primarily raw materials of Fertilizer and Chemicals Travancore Ltd (FACT) transported from Cochin port to FACT factory jetty. The following chart provides the break-up of commodities transported on NW-3.

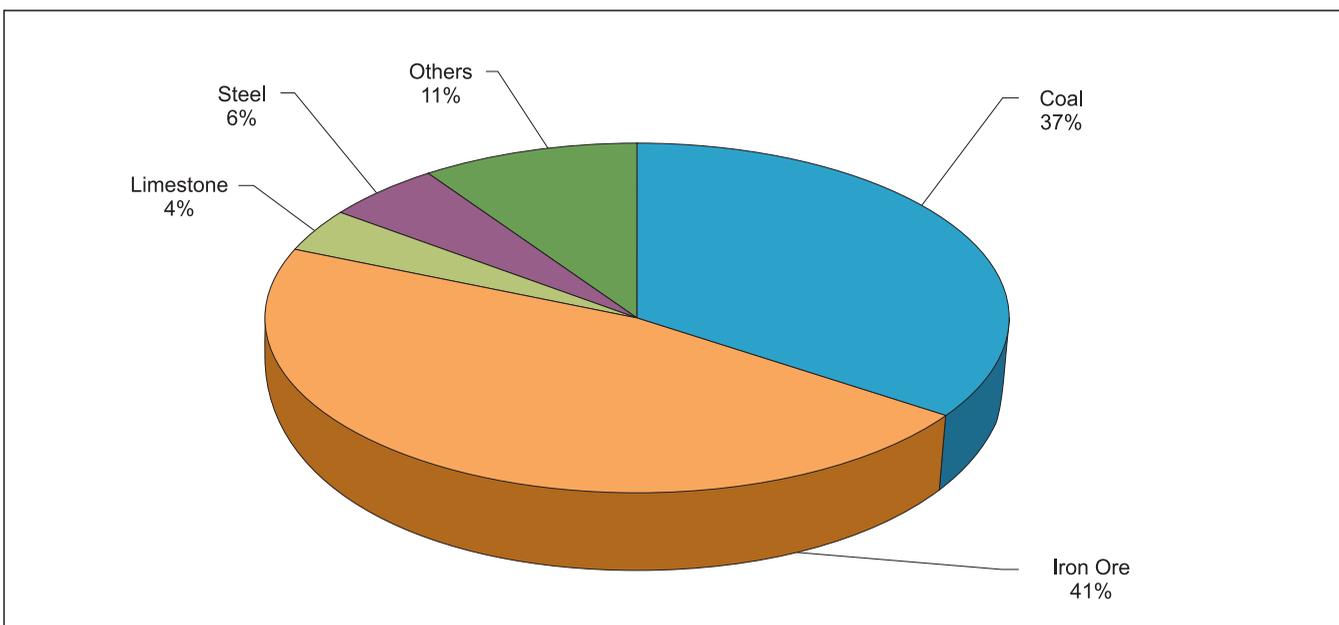
Figure 5: Share of commodities on NW-3 (FY 2018-19)



Rock phosphate, Liquid Ammonia Gas (LAG) and Phosphoric Acid accounted for 88% of the cargo traffic on National Waterway -3 while the remaining 12% is constituted by Sulphur and liquid effluent.

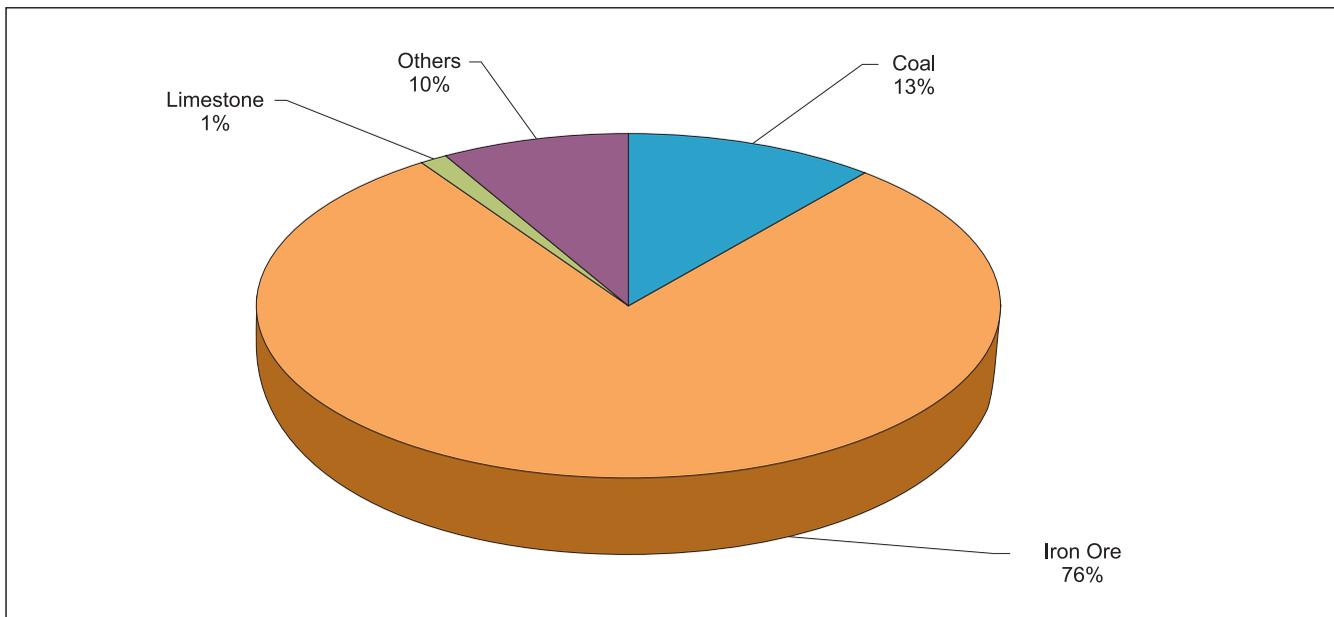
- Maharashtra waterways:** Traffic on Maharashtra waterways handled traffic of 28.34 million tonne in FY 2018-19. Coal and iron ore constituted approximately 78% of the traffic on Maharashtra waterways. Other commodities transported on Maharashtra waterways are steel, limestone etc.

Figure 6: Share of commodities on Maharashtra waterways (FY 2018-19)



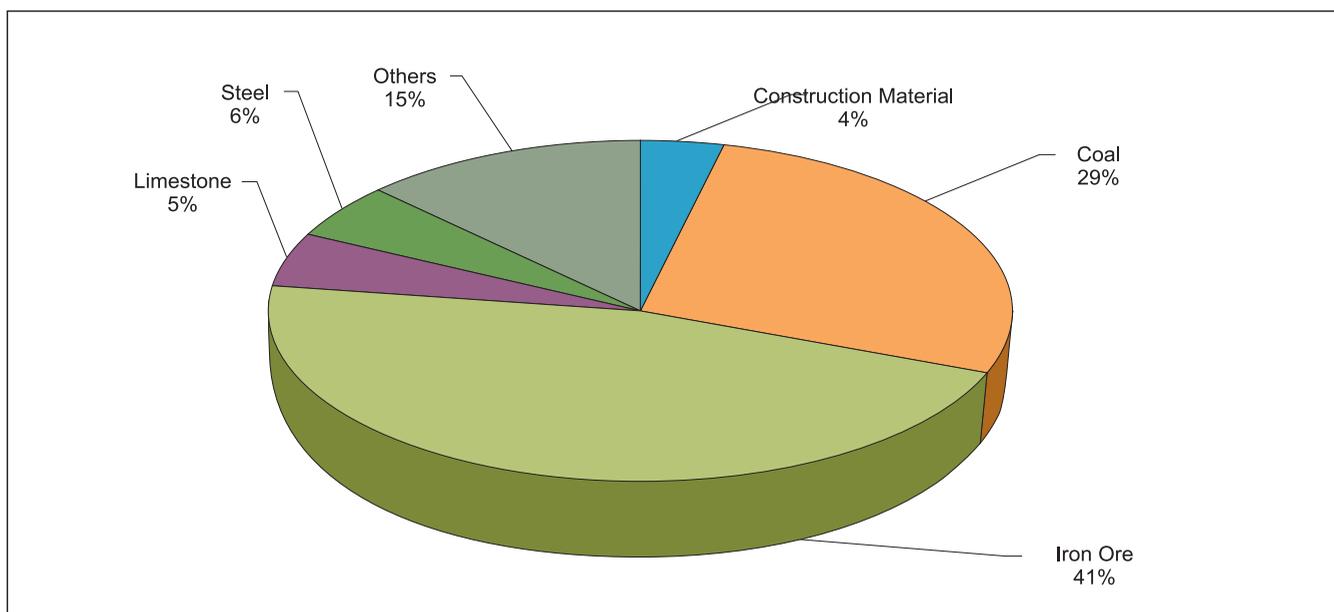
- Goa waterways:** Handled traffic of 3.76 million tonne in FY18-19. Iron ore is exported from Mormugao port and constituted 76% of the total cargo transported on Goa waterways. Other commodities that are transported on Goa waterways are coal, limestone and others which are imported at port and then transported to different destinations along the waterway.

Figure 7: Share of commodities on Goa waterways (FY 2018-19)



- Gujarat Waterways:** The traffic on Gujarat waterways increased to 28.82 million tonne in FY 2018-19. Iron ore, coal, limestone and steel account for 81% of the total cargo traffic while construction materials and others constitute the remaining 19%.

Figure 8: Share of commodities on Gujarat waterways (FY 2018-19)



- Inclusion of National Waterway -4 and National Waterway -97 (Sundarban waterways) in the total national waterway traffic has resulted in increase in traffic of approximately ~3.7 million tonnes. Construction material is the only commodity transported on NW-4 in Ro-Ro vessels while the traffic on NW-97 is the transit traffic of IBP route originating at Kolkata / Haldia.

Pilot movements conducted on NWs

- During the financial year 2018-19, IWAI undertook several trial runs carrying different commodities on National Waterways with the objective of demonstrating the technical and commercial feasibility of IWT and business promotion. Following pilot runs have been undertaken by IWAI during the year.

Sl. No.	Origin	Destination	Commodity	Waterway	Vessel name	Quantity (Metric Tonnes)
1	Bandel/ Tribeni	Falta	Rice Bran	NW-1	MV LB Shastri	260
2	Kahalgaon	Pandu	Flyash	NW-1, IBP, NW-2	MV Trishul, DB Dikhu and DB Ajay	1,235
3	Haldia	Dhubri	Imported coal	NW-1, IBP, NW-2	MV Aai	924
4	Kolkata	Varanasi	Containers	NW-1	MV RN Tagore	16 TEUs
5	Rajmahal	Kolkata	Silica sand	NW-1	MV Beki	1200
6	Pandu	Hatsinghari	Cement	NW-2	MV Trishul, DB Dikhu and DB Ajay	1000
7	Varanasi	Kolkata	Containers	NW-1	MV RN Tagore	16 TEUs
8	Kolkata	Patna	Containers	NW-1	MV RN Tagore	8 TEUs
9	Varanasi	Kolkata	Containers	NW-1	MV RN Tagore	16 TEUs

- The first pilot movement consisted of transporting 260 MT of rice bran from Bardhaman transported to Falta SEZ. The loading points of the movement was Jetty of Bandel Thermal Power Station, which is 80km from Bardhaman. The movement covered a waterway distance of 110 km. The unloading point was Falta jetty of Falta SEZ, approximately 2km from factory of IFB Agro Industries.



Loading of cargo at Bandel Jetty



Flagging off of the vessel



Unloading of cargo at Falta

- Kahalgaon Pandu pilot movement marked the longest haul on National Waterways, when 1233 metric tonnes of flyash was transported from NTPC Kahalgaon on NW-1 to Pandu, Guwahati on NW-2 covering a distance of 2085 km through Indo- Bangladesh Protocol route. The transportation was carried out using IWAI's own vessel MV Trishul and dumb barges Ajay and Dhiku.



- 924 Metric Tonnes of imported coal was transported from Haldia Dock Complex on NW-1 to Dhubri on NW-2 covering a distance of 1263 km through Indo- Bangladesh Protocol route.



- For the first time in India since independence, containerized cargo was transported on National Waterways when IWA's vessel Rabindranath Tagore transported 16 containers from Kolkata to Varanasi covering a distance of 1178 km in 9 days river journey.



- In addition to the pilot movements, more than 15 Over Dimensional Cargo (ODC) movements took place on NW-1 – IBP – NW-2 and on NW-3.



HPCL cargo from Cochin port to Ambalamugal

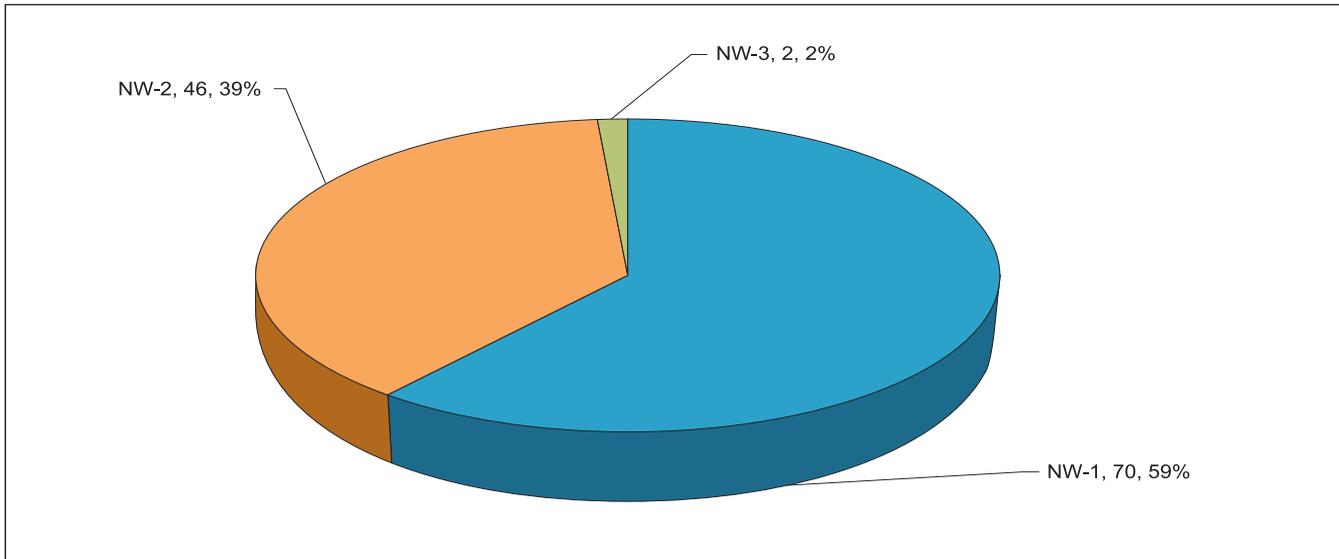
- The container operations were started at Kottayam port on March 4 for transporting EXIM goods from Vallarpadam International Container Transshipment Terminal (ICTT) using the IWT mode. The objective of the movement is to instigate industries located at Kottayam, Pathanamthitta and Alappuzha districts to start using waterways for EXIM movement of containers.



Passenger, Cruise and Ro-Ro initiatives

- IWAI has taken several initiatives to increase the passenger cruise traffic on national waterways. Figure shows the annual number of cruise trips on NW-1, NW-2 and NW-3 for the year 2018-19.

Figure 9: Number of cruise trips on National waterways



- An SOP of MoU on Passenger and Cruise service on the Coastal and Protocol routes between India and Bangladesh signed on 25th October 2018 by both the countries which enhances bilateral movement of passenger, tourist and cruise; enhances credibility, accuracy, efficiency and transparency; and minimizes unnecessary hindrance in service and operation
- The SOP is Applicable to vessels engaged on passenger & cruise services registered under Inland Vessels Act 1917 and Merchant Shipping Act 1958 – for Indian vessels, and Inland Shipping Ordinance, 1976 and Merchant Shipping Ordinance, 1983 – for Bangladesh vessels
- To commemorate this event, India and Bangladesh started inaugural cruise services between India and Bangladesh.



RV Bengal Ganga flogged off from Kolkata on 29th March 2019 for Dhaka



MV Madhumati flogged off from Dhaka on 29th March 2019 for Kolkata



Shri. Gopal Krishna, IAS, Secretary, Ministry of Shipping inaugurating First River Cruise Vessel RV Bengal between India and Bangladesh at Kolkata

- In FY 2018-19, a total of 48 cruise trips onboarded approx. 12,000 tourists on NW-1
 - o 5 cruise vessels - MV Ganges, MV Ganges Voyager –II & R.V. Bengal Ganga ABN Rajamahall and ABN Sukapa between Kolkata – Navdeep – Bhateshwarstan – Bhagalpur – Sultanganj – Munger – Nalanda – Patna – Bodhgaya – Gazipur – Varanasi.
 - o 4 vessels- MV Millenium, MV Paramhansa, MV Ahilya & MV Jaladuta in Ganga Sagar – Sunderban–Bhagwatpur Crocodile Park – Bali –Sundarban Tiger Reserve
 - o 1 vessel Alaknanda plying in and around Varanasi
- In FY 2018-19, a total of 48 cruise trips onboarded approx. 950 tourists on NW-2
 - o One cruise vessel, MV Mahabahu between Saulkhuchi–Guwahati-Silighat-Kaziranga National Park-Biswanath Ghat- Majuli-Neamati
 - o One vessel, MV Alfresco Grandin and around Guwahati and occasionally between Guwahati-Silighat-Kaziranga National Park-BiswanathGhat- Majuli- Neamati.
 - o 2 cruise vessels - Charaidew -1 & 2 between Saulkhuchi–Guwahati-Silighat-Kaziranga National Park-BiswanathGhat- Majuli-Neamati

Ro- Ro Initiatives

IWAI established new Ro-Ro services on NW-2 (Brahmaputra River) & NW-4 (Krishna River) in addition to the existing Ro- Ro services on NW-1 to provide impetus to cargo movements on waterways.



Ro-Ro vessel on NW-4

IWAI's other initiatives

First Public-private Partnership (PPP): GR Jetty-II and BISN Jetty Terminals were handed over to M/s Summit Alliance Port East Gateway (I) Pvt. Ltd. (SAPEL) on PPP mode on October 30, 2018.

This was IWAI's first foray in PPP model on a 38.30 percent revenue to government. The terminal service agreement was signed between IWAI and SAPEL, for equipping, operating and managing inland water transport at Garden Reach Terminal in Kolkata and Gaighat and Kolughat terminal in Patna of National Waterway-1 for a period of 30 years on revenue sharing basis.



FOCAL: A dedicated portal named FOCAL (Forum of Cargo Owners and Logistics Operators) was launched to connect cargo owners interested in moving their cargo using the IWT mode and vessel operators who are operating vessels on National Waterways (NWs). The portal allows registered users to share their transportation requirement and positioning of vessels on different NWs.

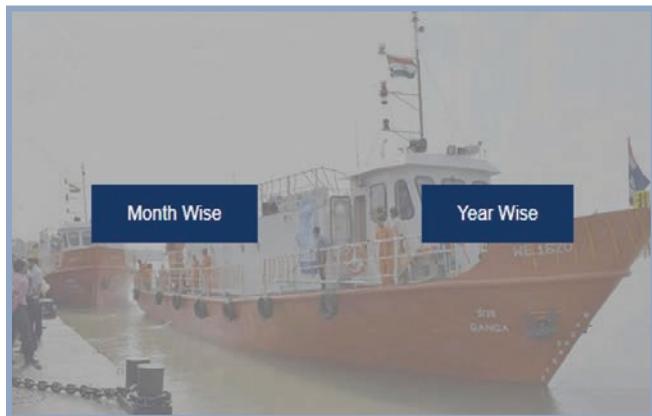
The landmark e-connect has enabled direct interaction between the vessel operators and cargo owners.



LADIS: Inland Waterways Authority of India (IWAI) launched a new portal LADIS – Least Available Depth Information System.

LADIS will ensure that real-time data on Least Available Depth (LAD) is disseminated for ship/barge and cargo owners so that they can undertake transportation on NWs in a more planned way. The portal has been hosted on IWAI's website www.iwai.nic.in and has been developed in-house.

IWAI has designed the portal LAD to facilitate the day-to-day operations of inland vessels plying on National Waterways and to avoid any hindrance in service and operation. It will enhance credibility and efficiency of information sharing to achieve seamless operations on National Waterways, besides pre-empting problems that may occur during movement of vessels.



Least available Depth Information of National Waterways



STRETCH	Unit	2014-15	2015-16	2016-17	2017-18	2018-19
NW - 1 (Ganga- Bhagirathi - Hooghly river)	In Million Metric Tonnes	5.06	6.48	4.89	5.48	6.79
NW - 2 (Bramhaputra river)	In Million Metric Tonnes	0.52	0.60	0.61	0.56	0.50
NW - 3 (West Coast Canal and Champakara canal and Udyogmandal canal)	In Million Metric Tonnes	1.01	1.06	1.03	0.42	0.41
NW - 4 (Krishna river)	In Million Metric Tonnes	-	-	-	-	0.45
Goa Waterways NW-68 (Mandovi river) & NW-111 (Zuari river)	In Million Metric Tonnes	1.27	4.54	15.65	11.09	3.76
Maharashtra Waterways - NW-10 (Amba river), NW-83 (Rajpuri creek), NW-85 (Revdanda creek &Kundalika River), NW-91 (Shastri River-Jaigad Fort creek)	In Million Metric Tonnes	22.54	28.85	33.29	25.96	28.34
Gujarat Waterways - NW-73 (Narmada river), NW-100 (Tapi river)	In Million Metric Tonnes	-	-	-	11.52	28.82
Sundarban waterways (NW- 97)	In Million Metric Tonnes	-	-	-	-	3.23
Total	In Million Metric Tonnes	30.40	41.53	55.47	55.03	72.31

16. JAL MARG VIKAS PROJECT ON NW-1

- 16.1 Inland Waterways Authority of India, a statutory body under the Ministry, is implementing the Jal Marg Vikas Project (JMVP) for capacity augmentation of navigation on NW-1 (Haldia-Varanasi stretch) with the technical assistance and financial support of the World Bank.
- 16.2 Detailed Engineering & FEED, ESIA and IWT Sector Development Strategy & Business Development Studies were carried out on NW-1 for project formulation. Based on the outcomes of these studies, a detailed proposal for implementation of JMVP at an estimated cost of Rs. 5,369.18 crores was prepared. As per this proposal, JMVP envisages to improve navigability of National Waterway-1 (NW-1) on the Haldia-Varanasi stretch of Ganga-Bhagirathi-Hooghly River System through-
- Fairway development:** Provision of LAD of 2.2/ 3 m on Haldia- Varanasi stretch, with bottom channel width of 35/45 m. This component also includes re-engineering of river bends, dredging, bandalling, bank protection works; provision of River Information System (RIS) and Vessel Traffic Management System (VTMS) etc.

- (ii) **Civil Construction Works:** Construction of multimodal terminals at Varanasi, Sahibganj and Haldia; intermodal terminals at Ghazipur and Kalughat; Ro-Ro terminals at Rajmahal, Manikchak, Samdaghat, Manihari, Kahalgaon, Tintanga, Hasanpur, Bakhtiyarpur, Buxar and Saraikota; one new navigational lock at Farakka; and vessel repair & maintenance complexes at Sahibganj and Gaighat.
 - (iii) **Institutional strengthening and improving the investment climate; vessel design and procurement; and construction framework.**
- 16.3 The vexatious issue of requirement of environment clearance for maintenance dredging in rivers was also resolved and the Ministry of Environment, Forest & Climate Change (MoEF&CC) conveyed the decision that maintenance dredging in rivers did not require prior environment clearance and cleared the JMVP for implementation subject to IWAI implementing certain environment safety measures prescribed by MoEF&CC. Further, the Hon'ble National Green Tribunal (Principal Bench), New Delhi, through an order dated 01.11.2018, dismissed O.A. No. 487 of 2015 filed by Shri Bharat Jhunjhunwala & Ors. against IWAI & Ors. seeking a direction to the Respondents to obtain prior environmental clearance for the JMVP under the EIA Notification of 2006, as amended from time to time.
- 16.4 The proposal for implementation of JMVP at the estimated cost of Rs. 5369.18 crores, appraised and recommended by the Public Investment Board, was approved by the Cabinet Committee on Economic Affairs on 03.01.2018 with the following funding pattern:
- (a) IBRD Loan- Rs. 2,512.00 crores (US\$ 375.00 million);
 - (b) Government of India Counterpart Funds (budgetary allocation and proceeds from issue of infrastructure bonds: Rs. 2,556.00 crores (US\$ 380.00 million); and
 - (c) Private sector participation under PPP mode: Rs. 301.00 crores (US\$ 45.00 million).
- 16.5 After due negotiations between the Government of India and the World Bank, the Board of the Executive Directors of the International Bank for Reconstruction & Development approved the loan of USD 375 million for the project on 12.04. 2017. The Loan Agreement between the World Bank and the Government of India and the Project Agreement between the World Bank and IWAI were signed on 02.02.2018. The Loan Agreement and the Project Agreement became effective from 23rd March, 2018.
- 16.6 On completion, JMVP will provide an alternative, cost-effective, safe and environment-friendly mode of transport and would be an attractor for industries and logistic players in and around the project corridor, enabling socio-economic growth in the region covering the States of Uttar Pradesh, Bihar, Jharkhand and West Bengal.
- 16.7 The project implementation is planned to be completed by March, 2023 and is progressing as per this time schedule. The following observation on JMVP implementation made in the Tripartite Project Review Meeting of the World Bank ongoing projects held in Chennai on 23-24 August, 2014 validates the commendable achievements made by IWAI in the project implementation:
- “The project, at this stage, is progressing ahead of the planned schedule. However, to sustain this momentum, the pending land acquisition issues affecting the timely procurement of terminals, particularly at Kalughat, need to be resolved at the earliest.”

16.8 The progress achieved under each component of JMVP during the period of report is summarised below:

I. Fairway Development

(i) Provision of LAD:

- Revised Dredging Management Plan and Strategy for NW-1, approved on 2.6.2017, was taken up for implementation.
- Contract for Provision of least assured depth (LAD) of 3m and bottom channel width of 35/45 m on the Farakka-Kahalgaon stretch (146 Kms) through Performance Based Assured Dredging contract was awarded to M/s Adani Ports & SEZ Ltd. on 09.04.2018 at a cost of Rs.150.00 crores.
- Procurement process for Provision of LAD of 3 m and bottom channel width of 35/45 m on the Sultanganj-Mahendrapur (74 Kms) and Mahendrapur- Barh (71 km) stretches through Performance Based Assured Dredging contracts; Provision of LAD of 2.5 m and bottom channel width of 35/45 m on the Barh – Doriganj (109 kms) and Doriganj-Ghazipur (178 kms) stretches through Quantity based maintenance dredging contracts (Mix & Match – IWAI dredger + SP-CSD from Service Provider); Provision of LAD of 2.2 m and bottom channel width of 35/ 45 m on the Ghazipur –Saidpur stretch (76 kms) through deployment of departmental dredgers on O&M basis, with performance criteria for maintaining LAD on quantity basis; and Provision of LAD of 2.2 m and bottom channel width of 35/ 45 m on the Saidpur-Varanasi stretch (57 km) through Performance based Assured Dredging Contract are at advanced stages of finalisation.

(ii) Bank Protection Works:

- Locations requiring bank protection works have been identified in the Farakka Feeder Canal (9.438 km), Farakka to Haldia reaches (33.095 km) and river bend at Farakka (3.20 km).
- Geo-technical investigations on the Farakka Feeder Canal and river bend at Farakka have been completed.
- The draft DPR and drawings have been finalized on the basis of inputs received from the World Bank, the Farakka Barrage Project and IIT, Madras.
- A Joint Committee consisting of Addl. Chief Secretary (I&WD, Govt. of West Bengal), KoPT and IWAI was formed on 17.03.18 to discuss the modalities of carrying out the works. The Committee met on 19.06.18 and 18.01.2019.

(iii) River Bend Correction upstream of the Farakka Navigational Lock.

- Draft DPR submitted by the Engineering Consultants is under finalization.
- Tender process has been initiated.

(iv) Navigational Aids & RIS

- DGPS reference station with MF link was established at Swaroopganj with a view to provide sub-meter accuracy in position fixing so as to facilitate the operators to navigate their vessel smoothly and effectively along the navigational channel.

- The River Information System was made fully operational to monitor vessel movements through remote base stations at Haldia, Garden Reach (GR) Jetty, Tribeni, Swaroopganj, Kumarpur, Ballia and Farakka. These stations were integrated into two control stations at Farakka and GR Jetty. Both the control stations would monitor the vessels plying in this river stretch via Automatic Identification System (AIS) and communicate with vessels via VHF. 30 IWAI vessels were equipped with Inland AIS system, short range radar and VHF.

II. Civil Construction Works:

(i) Construction of the Multimodal terminal at Varanasi:

- The multimodal terminal, with a terminal capacity of 1.26 MTPA, is being constructed in two Phases at Ralhupur Khas, Ramnagar, Varanasi. Of the estimated requirement of 67.12 ha of land, 34.75 ha for Phase-I and Phase-II and road connectivity to NH-7 have been acquired and registered in the name of IWAI.
- Civil construction work for Phase-I of the terminal, awarded to M/s AFCONS Infrastructure Ltd. at a cost of Rs. 169.70 crores in May, 2016, was **completed in October, 2018**. Hon'ble Prime Minister inaugurated the terminal on 12.11.2018 in the presence of Hon'ble Chief Minister of Uttar Pradesh, the Hon'ble Union Minister for Road Transport & Highways, Shipping and Water Resources, River Development & Ganga Rejuvenation and the Hon'ble M.P., Chandauli.
- Work on road connectivity to NH-7 was **completed in December, 2018**.
- The Standing Committee of National Board for Wildlife, in its meeting held on 15.05.17, had recommended grant of permission for movement and plying of inland vessels through the Kashi Turtle Wild Life Sanctuary at Varanasi subject to IWAI taking the standard mitigation measures prescribed by the Wildlife Institute of India and conditions prescribed by the State Chief Wildlife Warden. IWAI has complied with/is complying with these mitigation measures as per the stipulations.

(ii) Construction of the Multimodal Terminal at Sahibganj:

- The multimodal terminal, with a terminal capacity of 3.18 MPTA, is being constructed in two Phases in Samdanala village of Sahibganj. Hon'ble Prime Minister laid the foundation stone of this multimodal terminal on 06.04.2017.
- 192.37 acres of land requisitioned for the IWT terminal and for the road connectivity from the terminal to NH-80 have been acquired and the land is fully in the possession of IWAI. The IWT terminal will be connected to NH-80 through road and Sakrihali railway station by rail.
- R&R Package for 485 project affected families is being implemented at an estimated cost of Rs. 67.63 crores. Two Resettlement Colonies with all required infrastructure and civic amenities are being developed on 32.28 acres of land in Samdanala and Paltanganj villages. Land for both the colonies have been acquired; plotting of the Samdanala colony was completed and plots allotted to 288 families in the joint names of husband and wife; plotting in the Paltanganj Resettlement Colony has been completed. The houses will be constructed by the District Administration at an approved cost of Rs. 5.82 lakh per house and handed over to the families.

- Construction work for Phase-I of the multimodal terminal, awarded to M/s Larson and Toubro on 27.10.2016 at a cost of Rs. 290.90 crores, with a completion time line of May, 2019, achieved **physical target of 56% and financial progress was Rs. 147.40 crores as on 31.12.2018.**

(iii) **Construction of the Multimodal Terminal at Haldia:**

- The multimodal terminal at Haldia, with a terminal capacity of 3.18 MPTA, is being constructed in two Phases on a 61 acre land in the Haldia Dock Complex leased from the Kolkata Port Trust (KoPT) on a 30 year tenure.
- The work on Phase-I, awarded to M/s ITD Cementations at a cost of Rs. 517.36 crores on 30.06.2017 with a completion timeline of December, 2019, **achieved physical progress of 25.01% and financial progress of Rs. 110.50 crores as on 31.12.2018.**
- MoEF&CC granted Coastal Regulation Zone clearance for the terminal on 06.11.2017 subject to IWAI taking prescribed standard mitigation measures. IWAI has complied with/is complying with these mitigation measures as per the stipulations.

(iv) **Navigational Locks at Farakka:**

- The new navigational lock is being constructed on a 14.86 ha of land in the Farakka Barrage Project (FBP), taken on transfer from the FBP on 02.03.2016.
- The construction work of this lock, awarded to M/s Larsen & Toubro Ltd. on 24.11.2016 at a cost of Rs. 359.19 crores, with a completion time line of June, 2019, **achieved physical progress of 22.30% and financial progress of Rs. 70.65 crores as on 31.12.2018.**
- The existing Navigational lock at Farakka, along with land measuring 7.155 ha, was handed over to IWAI on 06.04.2018 by FBP. IWAI has initiated action for its modernization and rehabilitation to synchronize with the commissioning of the new navigational lock.
- On completion of work, both the locks will provide two-way passage to vessels across the Farakka Barrage, thereby facilitating smooth and seamless movement of vessels on NW-1.

(v) **Intermodal terminal at Kalughat:**

- The terminal is proposed to be constructed on a 5.159 ha land in Kalughat, Saran district of Bihar, with road connectivity to NH-19. Requisition for acquisition of the land was filed with the District Administration, Saran on 29.12.2016. Mapping/verification of land has been completed, but the land acquisition process is yet to be completed.
- The DPR and tender document for the terminal are at an advanced stage of finalisation.
- The Terminal is being planned to handle mostly container traffic destined to Nepal.

(vi) **Intermodal terminal at Ghazipur:**

- The terminal is proposed to be constructed on a 8.917 ha land in Ghazipur, Uttar Pradesh. 5.103 ha of land has already been acquired and registered. Balance 3.813 ha of land is at an advanced stage of acquisition.
- The Foundation Stone for the Terminal was laid by the Hon'ble Minister for Shipping, Road Transport and Highways on 25th January, 2018.

- The DPR for the terminal is at an advanced stage of finalization.

(vii) **Ro-Ro terminals:**

- Locations for five pairs of Ro-Ro terminals were identified at Rajmahal and Manikchak; Samdaghat and Manihari; Kahalgaon and Tintanga; Hasnapur and Bakhtiyarpur and Buxar and Saraikota.
- Requirement of land was estimated as follows: Rajmahal -1.764 ha; Manikchak – 2.288 ha; Samdaghat – 19.2 ha; Manihari – 2.257 ha; Kahalgaon – 2.376 ha; and Tintanga – 2.038 ha. Land for the remaining four terminals is being identified.
- Draft DPRs for all the ten Ro-Ro Terminals have been submitted by the Engineering Consultant and are under finalization.
- Topographic survey for the terminals have been completed.
- Geotechnical investigation has been completed for the Rajmahal, Manikchak and Manihari Ro-Ro Terminals.

(viii) **Integrated Vessel Repair & Maintenance Complexes:**

The Integrated Vessel Repair & Maintenance Complexes are proposed to be set up at Sahibganj and Gaighat (Patna).

(a) **Status of Gaighat Complex**

- Draft DPR has been submitted by M/s HOWE Infrastructure India Ltd. in May 2018. The same was examined in IWAI in detail and the observations of IWAI sent to the Consultant in May 2018. The revised DPR and draft tender document are awaited from the Consultant.
- Estimated cost of civil construction for the project is Rs. 5.60 crores.

(b) **Status of Sahibganj Complex**

- Draft feasibility report has been received from M/s Howe infrastructure Ltd. in November 2016 and DPR and tender document are awaited from the Consultant, which is held up due to delay in land acquisition.
- Estimated cost of civil construction is Rs. 140 crore.
- Estimated area of land to be acquired is 19.35 ha. Requisition was filed with District Administration, Sahibganj on 05.11.2018.

III. **Institutional strengthening and improving the investment climate; vessel design and procurement; and civil construction framework.**

The following Consultancies and procurement actions were initiated under this component and substantial progress was achieved:

(i) **Procurement of two Self-Propelled Cutter Suction Dredgers**

- Tender for procurement of two Self-Propelled Cutter Suction Dredgers was issued on 14.07.2018 and the tender process is at an advanced stage of finalization.

(ii) **Design of Inland Waterway Vessels**

- M/s DST, Germany, the consultants engaged for design of Inland Waterway Vessels, submitted 13 designs of inland waterway vessels. These models were tested at the facilities of the Consultant in Nuremburg, Germany. The approved designs have been uploaded on the IWAI website for public information for the prospective vessel builders.
- In the meantime, after due assessment of market conditions, IWAI has come to the conclusion that IWAI should own at least one vessel each conforming to these designs to kick start the vessel construction activity and demonstrate their effectiveness to the private vessel builders/shippers. Accordingly, the process for getting these vessels constructed within India has been initiated.

(iii) **Commercialization on NW-1**

- M/s Hamburg Port Consulting, the Consultants engaged to provide consultancy services for planning and implementation of commercialisation on NW-1, had recommended arranging 20 pilot movements of cargo vessels on NW-1 by IWAI to kick start commercialisation on NW-1. Out of these, 14 pilot movements were organised and successfully implemented by IWAI.
- One of the pilot movements undertaken was by MV Rabindranath Tagore, India's container inland vessel, transporting container cargo consisting of 16 containers (equivalent to 16 truckloads) of food and snacks from Kolkata to Varanasi. This container vessel was received by the Hon'ble Prime Minister at Varanasi on 12th November, 2018.

(iv) **Development of ferry services on NW-1**

- M/s Thompson Design Group and Massachusetts Institute of Technology/IAL, Consultants for providing consultancy services for development of ferry services on NW-1 were to identify suitable locations for the ferry services in Varanasi, Patna, Munger, Bhagalpur, Kolkata and Haldia to decongest the road traffic in these cities. Pre-feasibility reports, Schematic designs and draft specification drawings for the ferries at Varanasi and Patna have been submitted by the Consultants.

(v) **Communications and Outreach Programme**

- M/s. AMS Consulting (P) Limited, Lucknow, the Consultants engaged to carry out a Communications Needs Assessment Study for JMVP, had recommended a number of measures. As per these recommendations, a 26- day Outreach Programme was conducted from 16th July to 09th August, 2018 at various locations in the States of Uttar Pradesh, Bihar, Jharkhand and West Bengal.

(vi) **Designing the JMVP website**

- The website for JMVP designed by M/s. Compton Computers Pvt. Ltd, Kalkaji, Delhi is live.

(vii) **Consultancy services for study on the effect of navigational activities on dolphins in NW-1**

- M/s EQMS, who was engaged to carry out the study on 20.12.2017, submitted his Preliminary Report in July, 2018. Further study is in progress.

(viii) Risk Assessment and Disaster Management Plan for NW-1

- M/s Kitco Limited, Kochi was awarded the Consultancy for Risk Assessment and Disaster Management Plan for NW-1 on 04.04.2018 at a cost of Rs. 69.47 lakhs. The Consultant has submitted the Preliminary Report on 24.11.2018 and further study is underway.

(ix) Development of Asset Management Framework for NW-1

- JV of M/s KPMG Advisory Services P. Ltd.; M/s Maritime & Transport Business Solutions B.V.; and M/s Advaita Legal was awarded the Consultancy for development of a Asset Management Framework for NW-1 on 13.02.2018 at a cost of Rs. 7.95 crores.
- The Consultant has submitted RFQ, RFP and Agreement for Operation, Maintenance and Development of the Multi-Modal Terminal, Varanasi under PPP. The process to award the operation, management and further development of the multimodal terminal in Varanasi is at an advanced stage of completion.

(x) Technical Support Services for execution of civil works under JMVP

- JV of M/s Egis India Consulting Engineers Pvt. Ltd & Egis France International was awarded the consultancy contract for technical support services for the civil works on the Varanasi-Sahibganj stretch on 22.01.2018 .
- JV of M/s Arkitechno Consultants (I) Pvt. Ltd, Bhubaneswar and M/s IR CLASS Systems & Structures Pvt. Ltd., Mumbai was awarded the consultancy contract for technical support services for the civil works on the Farakka- Haldia stretch on 08.11.2017.
- Tendering process for engagement of a Consultant for technical support services for the dredging contracts under JMVP is at an advanced stage of finalization.

THE NATIONAL WATERWAYS ACT, 2016

Government of India has declared 111 waterways as National Waterways through National Waterways Act, 2016 enacted on 12.04.2016. These are:-

Sl#	National Waterway No.	Length (km)	Details of Waterways	STATES
1	National Waterway 1	1620	Ganga-Bhagirathi-Hooghly River System (Haldia - Allahabad)	Uttar Pradesh, Bihar, Jharkhand & West Bengal
2	National Waterway 2	891	Brahmaputra River (Dhubri - Sadiya)	Assam
3	National Waterway 3	205	West Coast Canal (Kottapuram - Kollam), Champakara and Udyogmandal Canals	Kerala
		170	West Coast Canal (Kottapuram - Kozhikode)	
4	National Waterway 4	50	Kakinada Canal (Kakinada to Rajahmundry)	Andhra Pradesh, Telangana, Karnataka, Tamil Nadu, Pondichery, Chhatisgarh and Maharashtra
		171	Godavari river (Bhadrachalam to Rajahmundry)	

Sl#	National Waterway No.	Length (km)	Details of Waterways	STATES
		139	Eluru Canal (Rajahmundry to Vijayawada)	
		157	Krishna river (Wazirabad to Vijayawada)	
		113	Commamur Canal (Vijayawada to Peddaganjam)	
		316	North Buckingham Canal (Peddaganjam to Central Station of Chennai)	
		110	South Buckingham canal (Central Station of Chennai to Marakanam)	
		22	Marakanam to Puducherry through Kaluvelly tank	
		1202	River Godavari (Bhadrachalam - Nashik) Maharashtra, Telangana, Andhra Pradesh & Chattisgarh	
		636	River Krishna (Wazirabad - Galagali) Karnataka, Telangana & Andhra Pradesh	
5	National Waterway 5	256	East Coast Canal and Matai river	Odisha and West Bengal
		265	Brahmani-Kharsua-Dhamra rivers	
		67	Mahanadi delta rivers (Consisting of Hansua river, Nunanala, Gobrinala, Kharnasi river and Mahanadi river)	
6	National Waterway 6	68	AAI River	Assam
7	National Waterway 7	90	Ajoy (Ajay) River	West Bengal
8	National Waterway 8	29	Alappuzha-Changanassery Canal	Kerala
9	National Waterway 9	40	Alappuzha- Kottayam – Athirampuzha Canal	Kerala
10	National Waterway 10	45	Amba River	Maharashtra
11	National Waterway 11	99	Arunawati - Aran River System	Maharashtra
12	National Waterway 12	6	Asi River	Uttar Pradesh
13	National Waterway 13	11	AVM Canal	Kerala & Tamil Nadu (8.5km)

Sl#	National Waterway No.	Length (km)	Details of Waterways	STATES
14	National Waterway 14	48	Baitarni River	Odisha
15	National Waterway 15	135	Bakreswar - Mayurakshi River System	West Bengal
16	National Waterway 16	121	Barak River	Assam
17	National Waterway 17	189	Beas River	Himachal Pradesh & Punjab
18	National Waterway 18	69	Beki River	Assam
19	National Waterway 19	67	Betwa River	Uttar Pradesh
20	National Waterway 20	95	Bhavani River	Tamil Nadu
21	National Waterway 21	139	Bheema River	Karnataka & Telangana
22	National Waterway 22	156	Birupa - Badi Genguti - Brahmani River System	Odisha
23	National Waterway 23	56	Budha Balanga	Odisha
24	National Waterway 24	61	Chambal River	Uttar Pradesh
25	National Waterway 25	33	Chapora River	Goa
26	National Waterway 26	51	Chenab River	Jammu & Kashmir
27	National Waterway 27	17	Cumberjua River	Goa
28	National Waterway 28	45	Dabhol Creek -Vashishti River System	Maharashtra
29	National Waterway 29	132	Damodar River	West Bengal
30	National Waterway 30	109	Dehing River	Assam
31	National Waterway 31	114	Dhansiri / Chathe	Assam
32	National Waterway 32	63	Dikhu River	Assam
33	National Waterway 33	61	Doyans River	Assam
34	National Waterway 34	137	DVC Canal	West Bengal
35	National Waterway 35	108	Dwarekeswar River	West Bengal
36	National Waterway 36	119	Dwarka River	West Bengal
37	National Waterway 37	296	Gandak River	Bihar & Uttar Pradesh
38	National Waterway 38	62	Gangadhar River	Assam & West Bengal
39	National Waterway 39	49	Ganol River	Meghalaya
40	National Waterway 40	354	Ghaghra River	Bihar & Uttar Pradesh
41	National Waterway 41	112	Ghataprabha River	Karnataka
42	National Waterway 42	514	Gomti River	Uttar Pradesh

Sl#	National Waterway No.	Length (km)	Details of Waterways	STATES
43	National Waterway 43	10	Gurupur River	Karnataka
44	National Waterway 44	63	Ichamati River	West Bengal
45	National Waterway 45	650	Indira Gandhi Canal	Punjab, Haryana & Rajashtan
46	National Waterway 46	35	Indus River	Jammu & Kashmir
47	National Waterway 47	131	Jalangi River	West Bengal
48	National Waterway 48	615	Jawai-Luni-Rann Of Kutch River System	Gujarat & Rajasthan
49	National Waterway 49	110	Jhelum River	Jammu & Kashmir
50	National Waterway 50	43	Jinjiram River	Assam & Meghalaya
51	National Waterway 51	23	Kabini River	Karnataka
52	National Waterway 52	53	Kali River	Karnataka
53	National Waterway 53	145	Kalyan-Thane-Mumbai Waterway, Vasai Creek and Ulhas River System	Maharashtra
54	National Waterway 54	86	Karamnasa River	Bihar & Uttar Pradesh
55	National Waterway 55	311	Kaveri - Kollidam River System	Tamil Nadu
56	National Waterway 56	22	Kherkai River	Jharkhand
57	National Waterway 57	50	Kopili River	Assam
58	National Waterway 58	233	Kosi River	Bihar
59	National Waterway 59	19	Kottayam-Vaikom Canal	Kerala
60	National Waterway 60	80	Kumari River	West Bengal
61	National Waterway 61	28	Kynshi River	Meghalaya
62	National Waterway 62	86	Lohit River	Assam & Arunachal Pradesh
63	National Waterway 63	336	Luni River	Rajasthan
64	National Waterway 64	426	Mahanadi River	Odisha
65	National Waterway 65	80	Mahananda River	West Bengal
66	National Waterway 66	247	Mahi River	Gujarat
67	National Waterway 67	94	Malaprabha River	Karnataka
68	National Waterway 68	41	Mandovi River	Goa
69	National Waterway 69	5	Manimutharu River	Tamil Nadu
70	National Waterway 70	245	Manjira River	Maharashtra & Telangana

Sl#	National Waterway No.	Length (km)	Details of Waterways	STATES
71	National Waterway 71	27	Mapusa / Moide River	Goa
72	National Waterway 72	59	Nag River	Maharashtra
73	National Waterway 73	226	Narmada River	Maharashtra & Gujarat
74	National Waterway 74	79	Netravathi River	Karnataka
75	National Waterway 75	142	Palar River	Tamil Nadu
76	National Waterway 76	23	Panchagangavali (Panchagangoli) River	Karnataka
77	National Waterway 77	20	Pazhyar River	Tamil Nadu
78	National Waterway 78	262	Penganaga - Wardha River System	Maharashtra & Telangana
79	National Waterway 79	28	Pennar River	Andhra Pradesh
80	National Waterway 80	126	Ponniyar River	Tamil Nadu
81	National Waterway 81	35	Punpun River	Bihar
82	National Waterway 82	58	Puthimari River	Assam
83	National Waterway 83	31	Rajpuri Creek	Maharashtra
84	National Waterway 84	44	Ravi River	Jammu & Kashmir, Himachal Pradesh & Punjab
85	National Waterway 85	31	Revadanda Creek - Kundalika River System	Maharashtra
86	National Waterway 86	72	Rupnarayan River	West Bengal
87	National Waterway 87	210	Sabarmati River	Gujarat
88	National Waterway 88	14	Sal River	Goa
89	National Waterway 89	45	Savitri River (Bankot Creek)	Maharashtra
90	National Waterway 90	29	Sharavati River	Karnataka
91	National Waterway 91	52	Shastri River - Jaigad Creek System	Maharashtra
92	National Waterway 92	26	Silabati River	West Bengal
93	National Waterway 93	63	Simsang River	Meghalaya
94	National Waterway 94	141	Sone River	Bihar
95	National Waterway 95	106	Subansiri River	Assam
96	National Waterway 96	311	Subarnrekha River	Jharkhand, West Bengal & Odisha

Sl#	National Waterway No.	Length (km)	Details of Waterways	STATES
97	National Waterway 97	172	Sunderbans Waterway	West Bengal
		56	Bidya River	West Bengal
		15	Chhota Kalagachi (Chhoto Kalergachi) River	West Bengal
		7	Gomar River	West Bengal
		16	Haribhanga River	West Bengal
		37	Hogla (Hogal)-Pathankhali River	West Bengal
		9	Kalindi (Kalandi) River	West Bengal
		22	Katakhali River	West Bengal
		99	Matla River	West Bengal
		28	Muri Ganga (Baratala) River	West Bengal
		53	Raimangal River	West Bengal
		14	Sahibkhali (Sahebkhali) River	West Bengal
		37	Saptamukhi River	West Bengal
		64	Thakurran River	West Bengal
98	National Waterway 98	377	Sutlej River	Himachal Pradesh & Punjab
99	National Waterway 99	62	Tamaraparani River	Tamil Nadu
100	National Waterway 100	436	Tapi River	Maharashtra & Gujarat
101	National Waterway 101	42	Tizu - Zungki Rivers	Nagaland
102	National Waterway 102	87	Tlwanng (Dhaleswari River)	Assam & Mizoram
103	National Waterway 103	73	Tons River	Uttar Pradesh
104	National Waterway 104	232	Tungabhadra River	Karnataka, Telangana & Andhra Pradesh
105	National Waterway 105	15	Udayavara River	Karnataka
106	National Waterway 106	20	Umngot (Dawki) River	Meghalaya
107	National Waterway 107	46	Vaigai River	Tamil Nadu
108	National Waterway 108	53	Varuna River	Uttar Pradesh
109	National Waterway 109	166	Wainganga - Pranahita River System	Maharashtra & Telangana
110	National Waterway 110	1081	Yamuna River	Delhi, Haryana & Uttar Pradesh
111	National Waterway 111	50	Zuari River	Goa

17. FINANCIAL PERFORMANCE

A. INCOME & EXPENDITURE

During the financial year 2018-19, a sum of Rs. 86200.00 lakh was received from the Government of India, Ministry of Shipping and balance fund of Rs. 42092.28 lakh raised through Extra Budgetary Resources (EBR). A sum of Rs. 3712.88 lakh was earned by the Authority by way of interest on short term deposits, sale of tender forms, over dimension Cargo/general Cargo movement, berthing/Pilotage chargers etc; The major scheme-wise expenditure is indicated below:-

(Rs. in Lakh)

Sl. No.	Name of the Scheme	Expenditure	
		Previous Year 2017-18	Current Year 2018-19
1	National Waterway No. – 1		
(i)	River Conservancy Works	4351.36	6128.38
(ii)	Construction of Cargo berth/ Terminals	250.96	13255.07
(iii)	Installation of DGPS Station	17.46	12.75
(iv)	Installation of RIS System	278.09	214.81
(v)	Acquisition of RO-Pax Vessels		594.00
(vi)	NINI	271.92	246.87
(vii)	IWT Promotion Activities	307.12	657.55
	Sub-Total	5476.91	21109.43
2	National Waterway No. – 2		
(i)	River Conservancy Works	2019.32	2059.56
(ii)	Construction & Maintenance of Terminals	545.06	744.58
(iii)	Construction of RO-RO Terminal	3.63	
(iv)	Acquisition of RO-Pax Vessels	-	2280.00
(v)	Construction of cargo vessels	7383.18	1802.61
(vi)	Bank protection work	1179.74	0.80
(vii)	Construction of work boats	0.00	
(viii)	Information Technology Related Expenses	-	23.57
(ix)	Development of Protocol route	-	239.30
(x)	Land for terminal	-	0.05
(xi)	O&M of cargo vessels and IWT promotion activities	269.76	561.49
(xii)	TEF/DPR/CRZ/Studies for NWs (NER)	97.81	2648.43
(xiii)	Strengthening of Road at Dubri (PWD)	398.75	
	Sub-Total	11897.25	10360.39
3	National Waterway No. – 3		
(i)	River Conservancy works	1112.76	929.57
(ii)	Construction of Terminals	72.25	217.02
(iii)	Construction & repairs of locks	1585.00	-
(iv)	construction of Bridge	138.75	
(v)	Acquisition of RO-Pax Vessels		351.00
	Sub-Total	2908.76	1497.59

Sl. No.	Name of the Scheme	Expenditure	
		Previous Year 2017-18	Current Year 2018-19
4	National Waterway No. – 4		
(i)	Development work	867.78	1734.66
	Land Acquisition at Harischandrapur	450.00	0.00
	land-Acquisition at Muktyala	160.27	41.73
	Construction of floating Steel Pontoon		303.52
	Sub-Total	1478.05	2079.91
5	National Waterway No. – 5		
(i)	Development work	3358.85	223.81
	Sub-Total	3358.85	223.81
6	Jal Marg Vikas Project		
(i)	Lease land Haldia	190.81	
(ii)	Consultancy charges and PMU expenses	2238.85	2941.99
(iii)	Terminal Facilities Expenses	172.22	0.00
(iv)	Acquisition of Land-Sahebganj	39.94	144.00
(v)	Land-Ghazipur	1476.70	
(vi)	Setup of Trust for turtle wildlife sanctuary Management	847.97	90.37
(vii)	GEO Technical Investigation on Terminal	1.24	0.00
(viii)	Construction of Multimodal terminal Haldia	5428.67	16457.80
(ix)	Construction of Multimodal – Sahebganj	10588.23	5964.62
(x)	Construction of Multimodal – Varanasi	8385.45	7444.34
(xi)	Construction of New Navigational Lock Farakka	4680.51	8169.37
(xii)	Acquisition of Land Varanasi	495.21	1880.48
(xiii)	Procurement of Survey cum Inspection Vessels – Turnkey	307.14	
	Sub-Total	34852.94	43092.97
7	I.T. activities expenses	91.25	94.41
8	Indian Institute of Technoogy Madras	621.13	403.20
9	IWT Development Fund	92.96	166.36
10	Establishment	8044.33	6739.51
11	Project Management Consultancy	-	-
12	Bond Related exp.	5261.05	7652.34
13	New National Waterways	2635.34	1636.71
	Sub-Total	16746.06	16692.53
	Grand Total	76718.82	95056.63

18. IMPLEMENTATION OF OFFICIAL LANGUAGE POLICY OF UNION IN THE AUTHORITY

The Authority is committed to implement official language policy of the Union in all its activities in a progressive manner. Hindi workshops and other related activities were periodically organized at the head office and regional offices. Hindi fortnight/week/day was organized at the Head Office and Regional Offices. On this occasion different types of Hindi competitions were organized in all the offices.

The Authority has been entrusted with the additional responsibility of implementing the official language policy of the Union in all the member offices of the Town Official Language Implementation Committee (Office), Noida by the Department of Official Language of the Ministry of Home Affairs. The Chairman of the Authority is the Chairman of T.O.L.I.C. (Office), Noida. A half-yearly meeting was organized regularly to discuss problems and difficulties being faced by the different member offices of the T.O.L.I.C. (Office), Noida. In order to encourage personnel of the member offices to work more and more in Official Language different types of Hindi Competitions, Workshops and other related activities were organized from time to time under the auspices of T.O.L.I.C. (Office), Noida. Also, the children of the personnel of member offices who secure outstanding marks in 10th and 12th examinations are awarded each year with 'Hindi Pratibha Award'.

19. PERSONNEL AND ADMINISTRATION

As on 31-03-2019, 29 Officers and 62 staff at the head office and 33 Officers and 164 staff in the field offices were in position.

ACKNOWLEDGEMENT

IWAI places on record its appreciation of the sincere efforts and contribution made by the employees at all levels.

IWAI also acknowledges the assistance and support given by the Ministry of Shipping, Comptroller & Auditor General of India and other Government departments and other agencies.

FOR AND ON BEHALF OF
INLAND WATERWAYS AUTHORITY OF INDIA



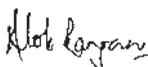
(DR. AMITA PRASAD)
CHAIRPERSON

INLAND WATERWAYS AUTHORITY OF INDIA
BALANCE SHEET AS AT 31st MARCH 2019

(Amount in Rs.)

PARTICULARS	SCHEDULES	CURRENT YEAR	PREVIOUS YEAR
I. SOURCES OF FUND			
(i) CORPUS/CAPITAL	3		
(a) CAPITAL U/S 11 (1) (C) OF IWAI ACT		94,37,244.00	94,37,244.00
(b) IWAI FUND U/S 19 OF IWAI ACT		15,75,16,95,114.00	9,98,60,30,748.00
(ii) RESERVES & SURPLUS	4	-	-
(iii) EARMARKED/ENDOWMENT FUNDS	5	-	-
(iv) NON CURRENT LIABILITIES AND PROVISIONS			
(a) LONG - TERM BORROWINGS	6	10,00,00,00,000.00	10,00,00,00,000.00
(b) OTHER NON CURRENT LIABILITIES	7	40,52,73,225.00	34,16,62,342.00
(c) LONG TERM PROVISIONS	8	1,78,47,070.00	-
(v) CURRENT LIABILITIES & PROVISIONS			
(a) SHORT TERM BORROWINGS	9	25,09,66,575.00	24,96,15,830.00
(b) SUNDRY CREDITORS	10	11,22,55,237.00	51,71,84,596.00
(c) OTHER CURRENT LIABILITIES	11	1,73,02,20,997.00	96,30,54,587.00
(d) PROVISIONS	12	64,84,145.00	31,02,01,334.00
TOTAL		28,28,41,79,607.00	22,37,71,86,681.00
II. APPLICATION OF FUND			
(i) FIXED ASSETS	13		
(a) TANGIBLE ASSETS GROSS BLOCK		13,70,92,83,525.00	11,35,02,40,961.00
LESS: DEPRECIATION		(2,87,99,09,948.00)	(2,59,85,75,200.00)
(b) INTANGIBLE ASSETS GROSS BLOCK		1,36,17,225.00	1,21,38,741.00
LESS: DEPRECIATION		(1,15,38,022.00)	(1,00,96,623.00)
(c) CAPITAL WORK - IN - PROGRESS	14	9,31,52,25,032.00	4,37,83,13,715.00
(d) INTANGIBLE ASSETS UNDER DEVELOPMENT	14	-	-
(ii) NON CURRENT ASSETS, LOANS AND ADVANCES			
(a) NON CURRENT INVESTMENTS	15	10,42,35,203.00	8,87,20,398.00
(b) DEPOSITS, LOANS AND ADVANCES	16	1,86,02,88,233.00	1,80,45,88,721.00
(c) OTHER NON CURRENT ASSETS	17	8,41,07,864.00	9,45,12,568.00
(d) MISCELLANEOUS EXPENDITURE (to the extent not written off or adjusted)			
(iii) CURRENT ASSETS, LOANS AND ADVANCES			
(a) CURRENT INVESTMENTS	18	-	-
(b) INVENTORIES	19	4,98,63,992.00	4,56,29,398.00
(c) SUNDRY DEBTORS	20	12,38,84,856.00	10,69,42,130.00
(d) CASH AND CASH EQUIVALENTS	21	4,92,91,82,213.00	5,70,51,85,880.00
(e) DEPOSITS, LOANS AND ADVANCES	22	96,75,80,815.00	1,39,48,93,849.00
(f) OTHER CURRENT ASSETS	23	1,83,58,619.00	46,92,143.00
TOTAL		28,28,41,79,607.00	22,37,71,86,681.00
Note: (A) Significant Accounting Policy	1	-	-
(B) Notes to accounts forms an integral part of the financial statements	2		

For and on behalf of the Authority


(A. K. Gupta)
Director (F&A)

(Alok Ranjan)
Member (Finance)

(Pravir Pandey)
Vice-Chairman

(Dr. Amita Prasad)
Chairperson

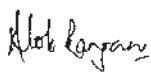
**INLAND WATERWAYS AUTHORITY OF INDIA
INCOME AND EXPENDITURE ACCOUNT
FOR THE YEAR ENDED 31st MARCH, 2019**

(Amount in Rs.)

PARTICULARS	SCHEDULES	CURRENT YEAR	PREVIOUS YEAR
I. INCOME			
(a) REVENUE GRANTS/SUBSIDIES			
- FROM CENTRAL GOVERNMENT		1,58,71,02,000.00	1,10,10,72,000.00
- FROM STATE GOVERNMENT(S)			
- INTERNATIONAL ORGANIZATIONS			
- OTHERS (SPECIFY)			
(b) TRANSFERRED FROM IWAI FUND		27,00,04,071.00	22,94,45,434.00
(c) OTHER INCOME (NATURE TO BE SPECIFIED)			
TOTAL INCOME (A)		1,85,71,06,071.00	1,33,05,17,434.00
II. EXPENDITURE			
(a) OPERATIONAL & MAINTENANCE EXPENSES	24	1,91,44,13,324.00	1,68,65,01,552.00
(b) PERSONNEL & ADMINISTRATIVE EXPENSES	25	57,80,24,205.00	80,01,82,810.00
(c) FINANCE CHARGES	26	76,30,52,369.00	49,70,76,253.00
(d) DEPRECIATION	13	27,00,04,071.00	22,94,45,434.00
(e) SUBSIDIES		-	-
(f) EXPENDITURE ON GRANT, SUBSIDIES ETC.		-	-
TOTAL EXPENDITURE (B)		3,52,54,93,969.00	3,21,32,06,049.00
EXCESS OF INCOME OVER EXPENDITURE/EXCESS OF EXPENDITURE IF IT EXCEEDS INCOME (A-B)		(1,66,83,87,898.00)	(1,88,26,88,615.00)
ADD/LESS: PRIOR PERIOD ITEMS	27	68,47,45,277.00	(9,74,75,151.00)
ADD/LESS: EXTRAORDINARY ITEMS			
ADD/LESS: TRANSFER TO/FROM SPECIAL RESERVES (NATURE TO BE SPECIFIED)		-	9,31,900.00
ADD/LESS: TRANSFER TO/FROM GENERAL RESERVE			
BALANCE BEING SURPLUS/ (DEFICIT) TRANSFERRED TO IWAI FUND			
		(98,36,42,621.00)	(1,97,92,31,866.00)
Note: (A) Significant Accounting Policy	1		
(B) Notes to accounts forms an integral part of the financial statements	2		

For and on behalf of the Authority


(A.K. Gupta)
Director (F&A)


(Alok Ranjan)
Member (Finance)


(Pravir Pandey)
Vice-Chairman


(Dr. Amita Prasad)
Chairperson

INLAND WATERWAYS AUTHORITY OF INDIA
RECEIPTS AND PAYMENTS ACCOUNT
FOR THE YEAR ENDED 31st MARCH 2019

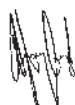
(Amount in Rs.)

PARTICULARS	CURRENT YEAR	PREVIOUS YEAR
RECEIPTS		
(I) OPENING BALANCE		
(a) CASH IN HAND		
- INR	27,723.00	37,692.00
- FOREIGN CURRENCY		
(b) STAMPS IN HAND		
(c) CASH WITH BANK	58,89,61,394.00	12,02,00,460.00
(d) SHORT TERM DEPOSIT WITH BANK	5,11,61,96,763.00	1,58,11,20,565.00
(e) REMMITANCE IN TRANSIT	-	10,50,00,000.00
(II) GRANTS RECEIVED		
(a) FROM CENTRAL GOVERNMENT	4,20,54,00,000.00	4,26,09,14,000.00
(b) FROM STATE GOVERNMENT	-	-
(c) INTERNATIONAL ORGANIZATIONS	-	-
(d) OTHER GRANTS (NATURE TO BE SPECIFIED)	-	-
(III) RECEIPT FROM BORROWINGS		
(a) FROM BONDS/SECURITIES	-	6,60,00,00,000.00
(b) FROM LOANS	-	-
(c) FROM OTHERS (IWAI FUND & Other)	4,65,46,57,509.00	-
(IV) INTERNAL RECEIPTS		
(a) RENT RECEIVED		
- RENTAL INCOME (BUILDING)	1,96,82,057.00	2,76,81,063.00
- RENTAL INCOME (OTHER TO BE SPECIFIED)	-	-
(b) INTEREST INCOME RECEIVED		
- INTEREST ON SHORT TERM DEPOSITS	8,04,87,337.00	13,14,34,911.00
- INTEREST ON STAFF ADVANCE	-	-
- INTEREST ON MOBILISATION ADVANCE	-	-
- OTHER INTEREST RECEIVED (TO BE SPECIFIED)	2,36,56,284.00	52,04,522.00
(c) OTHER INTERNAL RECEIPTS (NATURE TO BE SPECIFIED)		
- INCOME FROM INVESTMENTS	-	-
- CONSULTANCY CHARGES	-	-
- WATERWAY USES CHARGES	-	58,870.00
- BERTHING CHARGES	-	300.00
- TOWAGE CHARGES	-	-
- PILOTAGE CHARGES	-	13,500.00
- TERMINAL CHARGES	-	23,347.00
- PROTOCOL CHARGES	1,500.00	1,600.00
- MOVEMENT OF OVER DIMENSIONAL CHARGES (ODC)	-	10,000.00
- CRANE (INCLUDING PONTOON CRANE) HIRE CHARGES	-	-

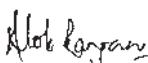
PARTICULARS	CURRENT YEAR	PREVIOUS YEAR
- INCOME FROM FERRY SERVICE	52,16,430.00	-
- UNIFORM CHARGES	-	1,42,000.00
- RECEIPTS FROM DEBTORS		5,04,37,727.00
- TUTION FEES	-	31,99,282.00
- HOSTEL ETC CHARGES	-	14,55,120.00
- SALE OF TENDER FORMS	63,000.00	10,88,860.00
- SALE OF NAVIGATION CHARTS	-	35,000.00
- RECEIPTS ON SALE OF FIXED ASSETS	2,11,694.00	85,240.00
- SECURITY DEPOSITS RECEIVED	2,00,00,137.00	3,61,05,089.00
- EARNEST MONEY RECEIVED	2,60,58,640.00	5,32,78,286.00
- RECOVERY OF ADVANCES	9,52,03,746.00	24,85,765.00
- MISCELLANEOUS RECEIPTS	1,19,05,006.00	1,81,82,213.00
TOTAL	14,84,77,29,220.00	12,99,81,95,412.00
PAYMENTS		
(I) EXPENDITURES		
(a) OPERATIONAL AND MAINTENANCE EXPENSES	7,08,27,810.00	1,42,58,70,583.00
(b) PERSONNEL EXPENSES	39,94,55,221.00	14,17,11,381.00
(c) FINANCE CHARGES	75,829.00	2,07,914.00
(d) PRIOR PERIOD EXPENSES	1,42,045.00	49,219.00
(II) REPAYMENTS OF BORROWINGS		
(a) REPAYMENTS OF BOND/SECURITIES	-	-
(b) REPAYMENTS OF LOAN	-	-
(III) INVESTMENTS & DEPOSITS MADE		
(a) OUT OF EARMARKED FUNDS.	-	-
(b) OUT OF OWN FUNDS.	-	-
(IV) EXPENDITURE ON FIXED ASSETS & CAPITAL WORK-IN-PROGRESS'		
(a) PURCHASE OF FIXED ASSETS	70,78,72,919.00	21,75,81,866.00
(b) EXPENDITURE CAPITAL WORK-IN-PROGRESS'	95,54,363.00	-
(c) INVENTORY	13,33,882.00	-
(V) PAYMENTS OF LOAN & ADVANCE		
(a) HOUSE BUILDING ADVANCE	37,06,024.00	
(b) DEPARTMENTAL ADVANCE	76,71,500.00	39,82,103.00
(c) TRAVELLING ADVANCE	81,30,468.00	50,78,530.00
(d) LTC ADVANCE	34,05,882.00	8,00,580.00
(e) MEDICAL ADVANCE TO STAFF	25,000.00	1,00,000.00
(f) PERSONAL COMPUTER (PC) ADVANCE	38,440.00	
(g) OTHER ADVANCE TO STAFF	1,74,302.00	2,18,985.00
(h) ADVANCE TO SUPPLIERS & CONTRACTORS	1,15,29,93,148.00	4,32,70,245.00

PARTICULARS	CURRENT YEAR	PREVIOUS YEAR
(VI) REFUND OF UNUTILISED GRANTS /SUBSIDY		
(a) TO THE GOVT. OF INDIA		
(b) TO THE STATE GOVT.		
(c) TO OTHER PROVIDERS OF FUNDS		
(VII) OTHER PAYMENTS		
(a) REFUND OF SECURITY DEPOSIT	24,65,44,926.00	24,02,92,687.00
(b) REFUND OF EARNEST MONEY	29,29,695.00	4,48,31,217.00
(c) SECURITY DEPOSIT PAID	11,77,337.00	9,27,509.00
(d) DUTIES AND TAXES PAID	51,23,95,266.00	28,12,93,358.00
(e) BOND RELATED EXPENDITURE	30,462.00	96,90,507.00
(f) PAYMENT TO MINISTRY OF SHIPPING (INTERNAL RECEIPT)	24,72,50,021.00	16,47,75,141.00
(g) PAYMENT OF WITHHELD TAXES	7,830.00	81,12,114.00
(h) INTEREST PAID	62,51,77,225.00	-
(i) PAYMENT FOR PROVISIONS	29,55,62,836.00	-
(j) OTHER EXPENSES	2,92,492.00	-
(k) DONATION TO RELIEF FUND	43,428.00	-
(l) PAYMENT ON GPF CONTRIBUTION	4,26,57,725.00	3,94,86,144.00
(m) PAYMENT TO SUPPLIERS & CONTRACTORS	5,56,72,46,126.00	4,28,07,46,351.00
(n) PAYMENT OF VARIOUS RECOVERIES(CLAIMS)	1,18,24,802.00	23,39,67,598.00
(o) PREPAID EXPENSES	-	17,179.00
(p) PAYMENT OF PENSION CONTRIBUTION	-	14,99,98,321.00
(VIII) CLOSING BALANCE		
(a) CASH IN HAND		
- INR	35,819.00	27,723.00
- FOREIGN CURRENCY	-	-
(b) STAMPS IN HAND	-	-
(c) CASH WITH BANKS	1,00,99,84,233.00	58,89,61,394.00
(d) SHORT TERM DEPOSIT WITH BANK	3,91,91,62,164.00	5,11,61,96,763.00
(e) REMMITANCE IN TRANSIT		
TOTAL	14,84,77,29,220.00	12,99,81,95,412.00

For and on behalf of the Authority



(A. K. Gupta)
Director (F&A)



(Alok Ranjan)
Member (Finance)



(Pravir Pandey)
Vice-Chairman



(Dr. Amita Prasad)
Chairperson

“SIGNIFICANT ACCOUNTING POLICIES”**1. Basis of Preparation of Financial Statements:**

The financial statements have been prepared in accordance with Indian Generally Accepted Accounting Principles (GAAP) under the historical cost convention on the accrual basis and the applicable accounting standards issued by the Institute of Chartered Accountants of India (ICAI) except reported otherwise. These accounting policies and standard have been consistently applied.

2. IWAI FUND U/S 19 of the IWAI Act, 1985:

Inland Waterways Authority of India Fund constituted under Section 19 of the Act. There shall be credited thereto-

- a. Any Grants received from Government (s) for acquiring assets, development and maintenance of infrastructure facility
- b. All fees and charges (all internal receipts) received by the Authority under the IWAI Act.
- c. All sums received by the Authority from such other sources as may be decided upon by the Central Government.
- d. Any other grants received.
- e. Any surplus of “Income and Expenditure Accounts”

There shall be debited thereto -

- a. Any amount payable to Government of India (GOI) as per their instructions.
- b. Amount equivalent to depreciation on fixed assets which are purchased out of grants.
- c. Book value of fixed assets, which is sold/written off during the year and the assets have been purchased earlier out of grant.
- d. Any deficit of “Income and expenditure” Account

3. Government Grants:

Government grants related to revenue, i.e. for employee cost, general administrative expenses and any other grants specified as revenue grants shall be recognized in the “Income and Expenditure Accounts” as revenue grants.

Grants for acquiring assets, development and maintenance of infrastructure facility. In connection to the Government grants that are in relation to the acquisition of assets, development and maintenance of infrastructure and related activities shall be credited to IWAI fund, and Deferred Income Method of accounting of such grants has been adopted by the Authority.

4. Property, plant and equipment (Fixed Assets):

- a. Property, Plant and Equipment is initially measured at cost of acquisition/ construction

including any cost directly attributable to bringing the assets to the location and condition necessary for it to be capable of operating in the manner intended by the management.

After initial recognition, fixed asset is carried at cost less accumulated depreciation/amortization and accumulated impairment losses, if any.

- b. Property, Plant and Equipment have been capitalized on the date of transfer of ownership or date of put to use whichever is earlier.
- c. Capital Work- In-Progress (CWIP):
Cost of material, construction/erection charges and other expenses incurred for the construction of fixed assets are shown as CWIP based on progress of construction/erection work till the date of capitalization.
- d. Depreciation/Amortization:
 - Depreciation has been charged on straight line method of depreciation.
 - Depreciation has been provided at the rates and in the manner specified in Schedule II of the Companies Act 2013 using the useful lives and residual values as basis except where the useful life of the asset is defined by the Iwai Board.
 - Depreciation is provided on the pro-rata time proportion basis in case of the new assets acquired or disposed of during the year.
 - Intangible assets are amortized over their respective individual estimated useful lives on straight line method, commencing from the date the asset is available to the authority for its use but not exceeding a period of ten years.

5. Inventory Valuation:

Inventories viz. Stores, Spares and tools (including machinery spares) etc. are valued at cost.

6. Revenue Recognition:

All Revenue has been recognized on accrual basis.

7. Investment:

Investments classified as “long term Investments” are carried at cost. Provision for decline, other than temporary, is made in carrying cost of such investments.

8. Lease:

Lease rental are expensed with reference to lease terms.

9. Retirement benefits:

Provision for all employee’s benefits are created as per applicable Accounting Standard-15.

10. Prior Period Items:

Prior period items are income or expense (more than Rs. 25000/-) which arise in the current period as a result of errors or omissions in the preparation of the financial statements of one or more prior

periods. The nature and amount of prior period items, wherever applicable, are separately disclosed in the statement of income and expenditure account in a manner that their impact on the current surplus or deficit can be perceived in accordance with the provisions of applicable Accounting Standard.

11. Treatment of expenses:

Expenditure on hydrographic survey, studies (i.e. feasibility study, DPR, EIA, SIA etc.) bandalling, bottom-paneling, dredging, operation and maintenance of terminals, temporary structure in channel marking and maintenance of vessels etc. is treated as revenue expenditure whereas expenditure on creation of permanent structures in channel marking, terminal construction and land, cost of vessels, survey launches, tugs, barges, dredgers, etc. is treated as capital expenditure. Further, Salary, Wages & Other Administration Expenses incurred on various projects of waterways is allocated to each waterway as per deployment.

12. Provision for Bad or Doubtful Debts:

Provision for bad and doubtful debts is recognized on the basis of management estimates which would be based upon the past experience of the management and any event or dispute arising with the debtors.

13. Provisions, Contingent Liabilities and Contingent Assets:

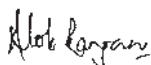
A provision is recognized if, as a result of a past event, the authority has a present legal obligation that can be estimated reliably, and it is probable that an outflow of economic benefits will be required to settle the obligation. Provisions are determined by the best estimate of the outflow of economic benefits required to settle the obligations at the reporting date. Where no reliable estimate can be made, a disclosure is made as contingent liability. A disclosure for a contingent liability is also made when there is a possible obligation or a present obligation that may, but probably will not, require an outflow of resources. Contingent assets are neither recognized nor disclosed in the financial statements.

14. Foreign Currency Transactions:

Foreign exchange transactions relating to purchase of/acquisition of or in relation to fixed assets, goods and services are accounted for at the exchange rates prevailing as on the date of the transaction.

For and on behalf of the Authority


(A. K. Gupta)
Director (F&A)


(Alok Ranjan)
Member (Finance)


(Pravir Pandey)
Vice-Chairman


(Dr. Amita Prasad)
Chairperson

**Notes to Accounts form Integral part of Financial Statements
as on 31.03.2019**

- 1.(i) In F.Y. 2018-19, the Authority incurred the following expenditure in respect of Key Management Personnel (KMP) and full time Members:

(Figures in Rupees)

Sl. No.	Name of the Official	Designation	Period (From – To)	Emoluments	Travelling Expenses	Total
1	Smt. Nutan Guha Biswas	Ex-Chairperson	March 18 to February 19	1330888	643249	1974137
2	Sh. Jalaj Shrivastava	Ex-Chairman	March 18 to February 19	3176940	544743	3721683
3	Sh. Pravir Pandey	Vice-Chairman (Presently Chairman)	March 18 to February 19	3369933	1732102	5102035
4	Sh. Alok Ranjan	Member (Finance)	March 18 to February 19	3716077	746660	4462737
5	Sh. Shashi Bhushan Shukla	Member (Traffic)	March 18 to February 19	2893374	2306191	5199565
6	Sh. Sanjay Kumar Gangwar	Member (Tech.)	March 18 to February 19	3292870	549407	3842277
Total				17780082	6522352	24302434
Total (Previous Year)				16206698	7630300	23836998

During the F.Y. 2018-19, the Vice-Chairman and Members of the IWAI under took the following foreign visits:

Vice-Chairman visited Nepal in connection with Technical Scoping Mission (TSM) from India to Nepal on Inland Waterways Connectivity during the period from 03.03.2019 to 09.03.2019. He also visited Kathmandu (Nepal) to discuss Inland Waterways connectivity between India and Nepal during the period from 15.07.2018 to 16.07.2018.

Member (Technical) visited Nepal in connection with Technical Scoping Mission (TSM) from India to Nepal on Inland Waterways connectivity from 03.03.2019 to 09.03.2019.

Member (Traffic) visited Dhaka, Bangladesh to represent Ministry of Shipping, GoI in the second Asia Maritime and Logistics Forum during the period from 08.10.2018 to 11.10.2018. He also visited Saint Petersburg, Russia to attend first India Russia Economic Forum during 25-26th November 2018.

Member (Finance) visited Dhaka Bangladesh for evaluation of a tender for providing 2.5 m LAD in Navigational Channel by dredging Sirajganj-Daikohowa and Ashuganj-Zakiganj stretches of Indo-Bangladesh protocol route during the period from 23.05.2018 to 25.05.2018, 10.08.2018 to 13.08.2018 and 18.09.2018 to 12.09.2018. He also visited Netherlands and Germany in connection with the contract of "Asset Management and Operation Framework Development for NW-I led by M/s KPMG Advisory Services from 30.09.2018 to 07.10.2018.

(ii) No member of IWAI Board has outstanding debts/ loans/ advances.

2. The Hon'ble Finance Minister in his Budget Speech, 2016-17 announced as under "To augment infrastructure funding further, Government will permit mobilization of additional finances to the extent of Rs.31300.00 crore by NHAI, PFC, IREDA, NABARD and Inland Waterways Authority of India (IWAI) through raising Bonds during 2016-17".

Department of Economic Affairs conveyed approval to IWAI for raising of EBR to the extent of Rs.1000.00 crore during 2016-17 vide their OM no.F15(4)-B(CDN)/2015 dated 03.10.2016.

As per OM No.FNo.15(4)-B(CDN)/2015 dated 20.10.2016 "Separate Government Guarantee is not required for issue of bonds to raise Extra Budgetary Resources as these bonds will be fully serviced (Principal of Interest) by Government of India through General Budget".

Ministry of Shipping shall suitably make budgetary provisions for the half yearly interest payment and issue expenses and other miscellaneous expenses during the tenure of Bonds and repayment of principal at the time of maturity.

Raising of EBRs through issuance of bonds in 2016-17 was the maiden effort of IWAI. Prior to the bond issue, a number of actions had to be completed viz. appointment of Lead Manager, Registrar, Bond Trustee, Arrangement with CDSL & NSDL, preparation of Information Memorandum, Agreement with BSE for E-bidding and Listing, Rating from credit rating agencies, coordination with SEBI, Trust Deed, payment of stamp duty, signing of an MoU between Ministry of Shipping and IWAI for raising of EBRs etc.

Thereafter, IWAI went for electronic bidding and successfully raised EBR worth Rs.340.00 crore through "GOI Fully Serviced Bonds" in private placement mode on 01.03.2017 in F. Y. 2016-17. In F. Y. 2017-18, the Authority requested Ministry of Shipping to allow raising of EBR for balance Rs.660.00 crore on same terms and conditions as earlier. Out of approval of Rs.1000.00 in F. Y. 2016-17. Ministry of Shipping vide letter no. IWT/45/2016-IWT (Vol-II) Part dated 27.07.2017 conveyed Cabinet approval to the proposal of re-validation of permission to raise Extra Budgetary Resources (EBRs) worth Rs.660.00 crore for F. Y. 2017-18. After receiving the approval IWAI successfully raised EBRs of Rs.660.00 crore through "GOI Fully Serviced Bond" in Private Placement Mode on 11.10.2017 on the electronic bedding platform. The issue was raised with a tenure of 10 years at a coupon rate of 7.47 percent (Semi Annually). As per Information Memorandum, the pay date was 13.10.2017. Authority received Rs.660.00 crore on the same day in the designated bank account. During F. Y 2018-19 Authority has not raised any funds through extra Budgetary resource (EBR).

3. The Jal Marg Vikas Project (JMVP), announced by the Hon'ble Finance Minister in his budget speech of July, 2014, was originally conceived to cover the entire stretch of NW-1 (Haldia-Allahabad stretch of Ganga-Bhagirathi-Hooghly river system-1620 km), to be implemented over a period of six years, at an estimated cost of Rs.4200 crore with the technical and investment support of the World Bank. Subsequently, on the recommendation of the World Bank, it was decided to implement the project on the Haldia-Varanasi stretch.

Ministry of Shipping, through a Gazette Notification dated 15.10.2014, designated Inland Waterways Authority of India (IWAI), with a Project Management Unit (PMU), as the Implementing Agency for the JMVP. The following institutional arrangements have been made to successfully implement the project:

(i) PMU at the IWAI Head Office headed by the Vice Chairman as Project Director. The Project Director is assisted by Chief Engineer & Project Manager, Director (Finance & Accounts) and domain

experts in Administration, Finance & Accounts, Engineering, Procurement, Marketing & Business Development, Environment, Social Development and Communications.

- (ii) Project Oversight Committee consisting of Chairperson and senior Officers of IWAI, representatives of Ministry of Shipping, Central Water Commission, Governments of Uttar Pradesh, Bihar, Jharkhand and West Bengal to provide critical guidance and evaluation of the project.
- (iii) Project Implementation Units at Patna, Kolkata, Varanasi, Sahibganj, Farakka and Haldia under the charge of the respective Directors, assisted by domain experts in the fields of Engineering, Land Acquisition, Livelihood management, Social Development etc.

As part of the pre-investment activities, the consultants in Engineering, FEED and ancillary works; ESIA; and Marketing & Business Development undertook studies on the Haldia-Varanasi stretch. Based on the reports submitted by these Consultants, the estimated cost of JMVP on Haldia-Varanasi stretch of the project was revised to Rs.5369.18 crore. The interventions now proposed include fairway development to provide 2.2 m to 3 m and bottom channel width of 45 meter for the entire stretch; construction of five multimodal/intermodal terminals; construction of a new navigational lock at Farakka; construction of five pairs of Ro-Ro terminals; two integrated vessel repair & maintenance complexes etc.

The cost of the project is being financed through the following sources:

- (i) IBRD Loan of Rs.2512.00 crore (US\$ 375.00 million).
- (ii) Government of India Counterpart Funds (budgetary allocation and proceeds from bond issue: Rs.2556.00 crore (US\$380.00 million) and
- (iii) Private sector participation under PPP mode: Rs.301.00 crore (US\$ 45 million).

The IBRD Loan component was appraised by the DEA on 27.09.2016; loan negotiations were held between the World Bank and Government of India on 15.03.2017; The Board of the Executive Directors of International Bank for Reconstruction & Development approved the loan (Loan No.8752-IN) on 12th April, 2017. The Cabinet Committee on Economic affairs approved the Project implementation at an estimated cost of Rs. 5639.18 crore on 03.01.2018. The Loan Agreement and the Project Agreement relating to the IBRD Loan of USD 375.00 million were signed on 02.02.2018 between the World Bank and the Department of Economic Affairs & IWAI and both these documents became effective from 23rd March, 2018. Under the active financing clause of the Loan agreement, JMVP has submitted a claim of Rs.497.27 crore to CAAA out of the same an amount of Rs.492.65 crores which includes retroactive and project preparatory advance has been credited in Consolidated Fund of India upto end of March, 2019. For the above project the Authority received fund through Budgetary resource under the Budget head made for the above project. In F. Y. 2018-19, Authority got sanctioned budget of Rs. 420.54 crores and same has been released by the Government of India through Ministry of Shipping.

Major projects of JMVP, which are under execution during the current financial year are: - Construction of the Multimodal Terminal at Varanasi at a cost of Rs.169.59 crore; Multimodal Terminal at Sahibganj at a cost of Rs.280.90 crore; Multimodal Terminal at Haldia at a cost of Rs.517.00 crore; and new navigational lock at Farakka at a cost of Rs.359.19 crore. Besides this, LAD dredging contract at a cost of Rs. 150 crore, Rs.159.30 crores and Rs. 182.10 crores have been awarded for the stretch between Farakka-Kahalgaon, Sultanganj – Mahendrapur and Mahendrapur-Barh respectively. During the year all expenditure on the project have been treated as capital expenditure. Hence the revenue expenditure incurred till March, 2018 has been transferred to Capital work in progress in F. Y. 2018-19. Since the inception of the project total

expenditure of Rs.122865.63 lakh(previous year Rs. 79475.87 lakh) has been incurred as of 31st March 2019 against which an expenditure of Rs.43389.75 lakh (Previous year Rs.34853.87 lakh) has been incurred in the financial year 2018-19.

- 4.(i) ITAT, New Delhi for the assessment years 1988-89 to 1997-98 (excluding Assessment Year 1990-91) ruled in July, 2006 that the grants to the Authority is not revenue in nature and hence not taxable. While giving effect to the ITAT order, ACIT, Noida issued fresh assessment order in November, 2010 wherein the miscellaneous receipts of the Authority has been treated as income and action has been initiated to impose penalty. The due tax alongwith penalty has been collected. Thereafter, the Authority continuously pursued the matter through appeals and counter appeals in ITAT, New Delhi; CIT (Appeals), Ghaziabad; to get the order of ACIT, Noida regarding treatment of miscellaneous receipts as income of the Authority dismissed.

The Authority filed an appeal in ITAT, New Delhi against the order of CIT (Appeal). ITAT, New Delhi vide their order dated 21.11.2014 had passed the consolidated order with the view that miscellaneous receipts is adjusted/ refunded to Government while releasing grant in subsequent financial year. Hence, the same cannot be treated as income for the Authority. The matter is pending with DCIT (Exemption), Ghaziabad for giving effect of the order of ITAT, New Delhi.

- (ii) ACIT, Noida also imposed penalty in the fresh assessment order of November,2010 and raised a demand of Rs.11.80 crore, the same has been collected by the I. T. department. The amount collected by Income Tax department was charged to Grant received in that particular financial year.

Subsequently, ACIT, Noida issued an order with the contention that no fresh adjudication of penalty u/s 271(1) (C) in view of ITAT direction is required. Against the said order of ACIT, Noida, the Authority has filed an application with ACIT, Noida/ Ghaziabad u/s 154 to review the matter in accordance with the directions of ITAT, New Delhi. The matter is pending with DCIT, Ghaziabad at present.

5. A sum of Rs.5271.22 lakh (previous year Rs.5263.34 lakh) towards cost of land for 11 terminals and land for widening of narrow canal made as advance to Government of Kerala. Out of above,12.3809 hectares of land were capitalized for Rs.2122.77 Lakh till 31.03.2019. For widening of canal,21.53 hectors land acquired at the cost of Rs.1777.72 lakh. An amount of Rs.1606.02 lakh has been charged to revenue expenditure since the land in sub-merged in water after widening of Waterways upto 31.03.2019. Authority is liable to pay interest and enhancement of cost on land acquired if the orders of various courts in Kerala so directs. Rs.1370.73 lakh was available with various District Collectors in Kerala which included Rs.1330.38 lakh deposited for land acquisition for new approach road to Maradu terminal.

6. A sum of Rs.3446.81 lakh (previous year Rs.3446.81 lakh) has been paid as advance to CPWD for construction of terminals. A sum of Rs.1715.69 lakh has been capitalized (Terminals and Buildings and Rs. 101.52 lakh has been shown as revenue expenditure) till date. The expenditure incurred till date for Rs.1560.46 lakh for the construction of Alapuzha Terminal (Rs.956.48 lakh) and Kayamkulam terminal, approach road (Rs.389.00 lakh) and Chavara approach road and Compound wall (Rs.214.98 lakh) have been shown under Capital Work in Progress.

7. A sum of Rs.1660.00 lakh (previous year Rs.1660.00 lakh) paid as deposit to Cochin Port Trust (CPT) for construction of Jetty at Bolghatty and Willington Island. Out of the same, Rs.1575.02 lakh has been capitalized till date and balance Rs.84.98 lakh is available with CPT.

8. A sum of Rs.138.75 lakh (previous year Rs.138.75 lakh) has been paid as advance to Executive Engineer, Harbour Engineering Division, Assramam, Kollam Govt. of Kerala for the construction of a single lane bridge across NW-3 at Kovilthottam, Chavara and same has been shown as Capital Advance.
9. A sum of Rs.1300.00 lakh (previous year Rs.1300.00 lakh) has been released to Director, Inland Navigation Directorate, Asramam, Kollam, Govt. of Kerala for the reconstruction of Navigational Lock at Thrikkunnappuzha of NW-3. During the year, a sum of Rs. 162.29 Lakhs (Previous Year Nil) has been taken to Capital work-in-progress.
10. A sum of Rs.285.00 lakh (previous year Rs.285.00 lakh) has been released to Executive Engineer, Irrigation department Govt. of Kerala towards IWAI Share for modification of 40' Navigational lock at Thanneermukkom. During the year, a sum of Rs. 228.00 Lakhs (Previous Year Nil) has been taken to Capital work-in-progress.
11. A sum of Rs.706.22 lakh(previous year Rs.706.22 lakh) has been deposited with CPWD, Patna for construction of office building, boundary wall, generator room and partitions of office space etc. at Gaighat, Patna. Out of this, as per financial progress of work, an amount of Rs.674.72 lakh has been capitalized and balance Rs.31.50 lakh shown as advance to CPWD.
12. A sum of Rs.4841.50 lakh (previous year Rs.4841.50 lakh) has been deposited with CPWD, Guwahati for construction of RO-RO Jetty, Dhubri includes administrative block, roads, electricity connections etc. has been capitalized during F. Y. 2018-19.
13. 53 flats at Sector-34, Noida were taken over on December, 2002 from Director General of Light Houses & Light Ships (DGLL), Ministry of Shipping for the staff of IWAI at a total transfer price of Rs.225.28 lakh plus transfer fee, stamp duty etc. The title deed is yet to be executed.

After completing major repairs of the houses, a sum of Rs.307.33 lakh (previous year Rs.307.33 lakh) has been capitalized. However, transfer in the name of IWAI could not be registered since the flats have not yet been registered in the name of the first owner DGLL. After persuasion with DGLL for making payment of land rent, etc. to Noida, the initial registration will be taken-up with Noida. The actual liability for registration of flats will be taken care at the time of registration.
14. A claim was lodged with M/s Oriental Insurance Co. for Rs.34.47 lakh towards loss of Buoys and Lights in October 2006. The Insurance Company has agreed for payment of Rs.23.93 lakh only on completion of certain formalities and documentation. The matter is being pursued with the insurance company to settle the claim.
15. 47 buoys with chain, anchor and accessories and 7 day marks was lost in the Kolkata region during 2002-03. Authority had lodged an insurance claim of Rs.28.91 lakh and a sum of Rs.5.92 lakh had been received from the Insurance Company. Authority had recovered an amount of Rs.11.05 lakh from the contractor in June, 2013. The Balance of Rs.11.94 lakh has been shown in claim recoverable. However in F. Y. 2016-17, the expenditure for same has been provided.
16. Ministry of External Affairs (MEA), Government of India in March, 2009 through an agreement appointed the Authority as Project Development Consultant for implementation of multi-modal transit transport facility on Kaladan river between Sittwe and Paletwa in Myanmar. This is known as "Kaladan Multi Modal Project".

The above project is being implemented in two phases. Phase-1 work has been executed in two

parts viz (i) Initial work and (ii) Additional works. Initial awarded work of Port & IWT component has been completed. Some of additional work under phase-1 work like staff quarters, slope protection work, bank protection work, fuel bunkering station, workshop, etc have been completed.

The phase-2 works involving construction of container terminal at Sittwe & Paletwa, removal of two wrecks at Sittwe and O&M of assets completed under phase-1 works. Wreck removal work has been completed in July, 2018. Action for appointment of operator for O&M of phase-1 work has been initiated. Construction of container terminal at Sittwe and Paletwa is proposed based on viability criteria. The above Expenditure of Project Development Consultants is met from Consultancy fees (6% of project cost) received from MEA as per Agreement. The receipts and expenditure on the above project is not part of Grant Receipt by the Authority. Authority maintains separate Books of Accounts on the project and Annual Accounts on the same is duly audited and certified by Independent Chartered Accountant Firm. The component of Annual Accounts of the above Project is not included in Annual Accounts of IWAI for the F. Y. 2018-19.

The Authority has received Rs.2623.64 lakh from MEA including PDC fees of Rs.2258.03 lakh, Service Tax Rs.211.44 lakh, GST Rs.55.30 lakh and reimbursement of Hydrographic Survey Expenditure of Rs.98.87 lakh upto 31.03.2019. In addition there has been internal receipts of Rs.237.49 lakh mainly bank interest generated on the project. Out of the above, an expenditure of Rs.2759.15 lakh has been incurred.

During F. Y. 2018-19, an amount of Rs.208.41 lakh (previous year Rs. 229.43 lakh) has been incurred as expenditure and an amount of Rs. 6.50 lakh has been (previous year Rs. 10.65 lakh) received as internal receipt on the project.

The Audited and certified Annual Accounts on the above Project by the Independent Chartered Accountant Firm is attached as “**Annex-A**”.

17. Authority has taken three policies from LIC for Pension, Gratuity and Leave Encashment for IWAI employees. LIC has provided actuarial valuation for all the three policies. As per actuarial valuation as on 31.03.2019, an amount of Rs.13380.00 lakh for Pension (previous year Rs.14701.00 lakh), Rs.1730.30 lakh for Gratuity (previous year Rs.1512.51 lakh) and Rs.1157.88 lakh for leave encashment (previous year Rs.999.67 lakh) is required.

Authority has established a Trust in the name of “IWAI-Employees Pension fund” with effect from 25.03.2003 for administering and managing the pension/gratuity fund in respect of employees of the Authority. IWAI-Employees Pension Fund and leave encashment is managed by LIC of India. As per IWAI-Employees Pension Fund account, a fund of Rs.15971.64 lakh and Rs.1475.40 lakh is available with the Trust for pension and gratuity respectively and Rs.1039.35 lakh is available with LIC for leave encashment fund. During F. Y. 2018-19, no Provisions for Pension, Gratuity, Leave Encashment has been provided since there are surplus funds available in Pension policy and required deficit under Gratuity and Leave Encashment will be transferred from pension policy in F. Y. 2019-20. A Provision for Pension, Gratuity and Leave Encashment provided upto 31.03.2018 has been discharged during F. Y. 2018-19.

For Actuarial Valuation, the assumptions are:

Mortality Rate	: IALM (2006-08) ultimate.
Withdrawal Rate	: 1% to 3% for all age.
Discount Rate	: 7.50% p.a.
Salary Escalation	: 7% p.a.

18. Authority has appointed Actuarial Valuer for providing actuarial valuation of the post-retirement medical benefit (PRMB) to retired employees of the Authority those opted to avail medical facilities. As per actuarial valuation certificate liability on post-retirement medical benefit to retired employees of the Authority is Rs.191.28 lakhs as on 31.03.2019. In F. Y. 2018-19, an amount of Rs.64.51 lakh (previous year Rs. 36.01 lakh) has been provided on the same.

19. Authority entered into shareholders’ agreement in three JV projects with three companies namely (i) M/s Royal Logistics (Ship) Ltd., Kolkata (ii) M/s SKS Waterways Ltd., Kolkata and (iii) M/s Vivada Logistics Pvt. Ltd. Kolkata. As per the shareholders’ agreement with M/s Royal Logistics (Ship) Ltd, Kolkata and M/s SKS Waterways Ltd, Kolkata the initial authorized share capital of each company was Rs.5.00 lakh and same was required to be contributed in the ratio of 70% by the J.V. partners and 30% by IWAI. Accordingly, Authority contributed its share of Rs.1.50 lakheach as initial authorized share capital in M/s Royal Logistics (Ship) Ltd., Kolkata and M/s SKS Waterways Ltd. Kolkata.

The firms viz., M/s Royal Logistics (Ship) Ltd.and M/s SKS Waterways Ltd. were requested vide letter dated 22.08.2016 and email dated 17.01.2017 to take expeditious action for settlement of the accounts of equity amount held by them and to arrive at a decision for termination of JVs as no progress was made.

In response, M/s Shahi Shipping Ltd. (formerly SKS Logistics Ltd.) vide their letter dated 16.06.2017 informed that they intend to close JV firms viz Royal Logistics and SKS Waterways for which necessary formalities are being completed from their end. However, the settlement of accounts is awaited.

20. There are two Arbitration cases pending before the Arbitrators having contingent liability upon IWAI and claim by IWAI as on 31.03.2019. One case relate to dredging work in NW-3 and one case relate to construction of vessels. At present one case related to LAR/LAA with Sub-Court, Kerala is pending having contingent liability. A list of pending court cases has been prepared. The pending court cases with liability are shown in tabulated format as below :-

(Rs. in crore)

Court	No. of case	Liability upon IWAI	Claim by IWAI
Hon’ble Supreme court	04	-	-
NGT, Delhi	02	-	-
NGT Southern Zone, Chennai	02	-	-
Hon’ble High Court, Delhi	03	-	-
Hon’ble High Court, Kerala	12	-	-
Hon’ble High Court, Patna	02	-	-
Hon’ble High Court, Allahabad	12	-	-
Hon’ble High Court, Kolkata	12	-	-
Hon’ble High Court, Guwahati	05	-	-
Hon’ble High Court, Hyderabad	02	-	-
Hon’ble High Court, Madras	01	-	-
District Court, Varanasi	01	-	-
Adll Chief Judicial Magistrate Jangipur, Murshidabad	01	-	-
Debts Recovery Tribunal, Bangalore	01	-	-
Lower Court, Balasore	01	-	-

CGIT cum Labour Court, Guwahati	02	-	-
Office of ALC, Guwahati	02	-	-
Sub Court, Patna	01	-	-
City Court, Kolkata	02	-	-
CGIT cum Labour Court, Kolkata	05	-	-
Additional District Judge, Visakhapatnam	01	-	-
Munsiff Court, Kerala	02	-	-
Magistrate Court, Kerala	01	-	-
Human Right Commission, Kerala	01	-	-
Arbitration between IWAI vs DDCL	01	-	-
Arbitration between IWAI vs M/s Neptune Maritime	01	29.81	21.04
Sub Court, Kerala (LAR/LAA cases)	01	1.17	0.00
Total	81	30.98	21.04

21. Authority received Rs.86200.02 lakh as Grant under different budget heads. Authority also had available fund of Rs.42092.28 lakh against the fund raised by issuance of Bonds in F. Y. 2017-18. During the year, capital expenditure of Rs. 69349.17 lakh and revenue expenditure of Rs. 25707.45 lakh was incurred by the Authority. During the year, Authority generated Internal Receipts of Rs. 3712.88 lakh which includes accrual interest Rs.57.77 lakh. The same has been shown as liability since the amount is payable to Government of India as per directions of MoS vide their letter no. G-20017/7/2013-IWT dated 06.12.2013. Summarized details are as under:-

Abstract of Fund received and Expenditure in F. Y. 2018-19

Particulars		(Amount in lakh)
		Total
Grants/ EBRs received		
(a) Plan	86200.02	
(b) Bonds (EBRs)	42092.28	
(c) Deficit of F. Y. 2017-18	(4235.99)	124056.31
<u>Less:- Expenditure incurred</u>		
(a) Revenue expenditure	25707.45	
(b) Capital expenditure	69349.17	95056.62

22. An amount of Rs.9352.24 lakh (previous year Rs.9255.40) has been released as advance to District Land Acquisition Officer and Deputy Commissioner, Sahibganj for acquisition of land for construction of multi-modal terminal at Sahibganj. Out of above, land measuring 184.685 acres has been taken over amounting to Rs.11719.36 lakh (previous year Rs.11719.36 lakh), the same has been capitalized and Rs.2463.96 lakh (previous year Rs.2463.96 lakh) has been shown as liability for balance dues against the land taken over as on 31.03.2019. In addition, Rs. 6767.22 lakhs (previous year Rs. 4738.72 lakh) has been released to District Land Acquisition Officer and Deputy Commissioner, Sahibganj for rehabilitation and resettlement of effective families on the project. Out of the above Rs. 3744.19 lakh shown as capital working progress and balance Rs. 3023.03 lakh as advance.

23. For design, construction and supply of 6 nos. of work boats, a work order was placed to M/s Hooghly

Dock Port Engineering Ltd. (HDPEL) in November, 2007 at the contract price of Rs.29.016 crore within sanctioned scheme at a cost of Rs.113.45 crore by Ministry of Shipping. HDPEL has partially constructed the work boats and ordered for Machineries. Authority paid Rs.19.51 crore on the same. In order to complete the balance work on four work boats, work order for additional work Rs.9.94 crore + taxes was given.

HDPEL has delivered four work boats costing Rs.24.09 crore in F. Y. 2015-16 which has been capitalized. The amount of Rs.2.79 crore consisting of first two stage payments and Rs.3.71 crores for procurement of machineries including deck cranes and steerable rudder propulsion unit has been paid in respect of balance two work boats is to be recovered from HDPEL. Authority is pursuing with HDPEL to handover the machineries and refund the dues to IWAI. Response of HDPEL is awaited. The amount of Rs.6.50 crore due from HDPEL has been shown as claim recoverable. In F. Y. 2017-18, the expenditure for the same has been provided.

24. Authority had rented out 4 floors of the Building at Head Office Noida to Govt. PSUs/ Deptt. Rent received of Rs.64.65 lakh, Rs.200.06 lakh, Rs.258.16 lakh, Rs.290.94 lakh and Rs.297.36 lakhs for the F. Y. 2013-14, 2014-15, 2015-16, 2016-17 and F. Y. 2017-18 respectively have been deposited in Consolidated Fund of India. An amount of Rs.245.75 lakh pertaining to F. Y. 2018-19 is yet to be deposited.

25. In F. Y. 2018-19, Internal Receipts of Rs. 3712.88 lakhs (previous year Rs. 2472.49 lakhs) has been generated. As per letter no. G-20017/7/2013-IWT dated 06.12.2013 of Ministry of Shipping the same has to be deposited in Government Account. The amount of Internal Receipts has been shown as liability to Government of India. The details of Internal Receipts are as under:-

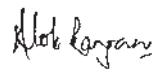
Sl. No.	Internal Receipts	Amount (in Rs.)
1.	Pilotage Charges	5,74,501
2.	Birthing Charges	69,94,100
3.	Over Dimension Cargo Income	17,41,556
4.	Other Income	1,10,79,355
5.	Protocol Fees	23,80,400
6.	Misc. Receipts	12,23,593
7.	Rent Received Terminal	14,14,270
8.	Sale of Tender Forms	8,45,438
9.	Sale of Navigation Chart	12,000
10.	Course Fee & Hostel Charges NINI	39,48,538
11.	Dry Cargo	24,56,416
12.	Pontoon Hire Charges	6,21,139
13.	Hiring of Vessels	2,52,33,982
14.	Water Usage Charges	1,11,93,013
15.	Interest on Deposits/ Investment	27,25,78,547
16.	Interest on Mobilization Advance	15,85,863
17.	Profit on Sale of Assets	28,30,001
18.	Rent-Building	2,45,74,943
	Total	37,12,87,655

26. The Lease Land has been acquired at Noida and Haldia on upfront payment basis. The amount of lease rent pertaining to particular financial year is charged to revenue expenditure in respective financial year.
27. Indo-Bangladesh Protocol Route (IBP)
- (i) There is a Protocol agreement called Inland Water Transit and Trade Protocol between India and Bangladesh under which vessels of either country can travel through specified river routes of each country. Under these protocol routes there are 6 ports of call in each country. The agreement is valid upto June, 2020 and renewable automatically in line with India – Bangladesh Trade Agreement.
- (ii) During the meeting of the Shipping Secretaries of Bangladesh and India, held at Dhaka on 06-07 December 2016, it was decided that “dredging to maintain 2.5 m depth is to be done in 470 km in two stretches of Protocol routes i.e. Zakiganj/ Karimganj to Ashuganj and Sirajganj – Daikhawa” on cost sharing ratio of 80:20 between India and Bangladesh. The tender has been finalized and work awarded by Government of Bangladesh to M/s Dharti – Banga JV for a period of 7 years at a total cost of BDT 322.95 crore including taxes. It is also proposed to appoint PMC for which proposal is under consideration by MEA. The Work has commenced on 31st March, 2019 and is in progress. With the development of above protocol route, there will be uninterrupted connectivity from Varanasi on NW-1 to Sadiya (Assam) through National Waterway–2 and to Lakhipur (Assam) through National Waterway – 16 via Patna (Bihar), Sahibganj (Jharkhand), Haldia (West Bengal).
- IWAI is overseeing the project as nodal agency from Indian side. A Joint Monitoring Committee (JMC) has been constituted by Govt. of India comprising Member (Technical), IWAI, Chief Engineer (Tech) IWAI, Director (IWT), MoS, First Secretary, IHC Dhaka. The expenditure on IWAI officers likely to be incurred in execution of the work is to be met from the funds to be made available by MEA from its budget.
28. Authority was preparing Annual Accounts on the format approved by Ministry of Shipping vide their letter no. G-25020/1/2004-IWT dated 28.02.2005 consisting of Balance sheet, Income & Expenditure accounts alongwith Schedules. Format of Accounts has been revised and the same has been adopted in 164th Authority meeting of IWAI Board. The revised format of Accounts consisting Balance Sheet, Income & Expenditure Account, Receipts & Payment Account with Schedules and Accounting Policy was sent to Ministry of Shipping for approval in consultation with C&AG office vide IWAI letter no. IWAI/Fin./3442/98/16-17 dated 07.05.2018. The revised format of Accounts has been duly vetted by C&AG office vide their letter no. DD-1/HQ/IWAI/A/AC/1-2/2018-19 dated 12.04.2019. The Annual Accounts for the F. Y. 2018-19 have been prepared on the basis of revised format of accounts duly vetted by C&AG. The revised format of Accounts sent to MoS is yet to be approved by Ministry of Shipping and thereafter notified in official Gazette.
29. The liability on the Capital awarded contracts, to be executed, is expected to be Rs. 122422.62 lakhs at the end of March, 2019.
30. Bank Guarantee valued at Rs. 30849.48 lakh (previous year Rs. 30595.90 lakh) have been received from contractors / suppliers towards security deposit, earnest money and mobilization advance against the works/ contracts awarded to them till 31st March 2019.
31. Details of location-wise Land/ Lease Land in the possession of the Authority as on 31.03.2019 is enclosed at “**Annex.-B**”.

32. Details of Fixed Assets alongwith depreciation thereon located in respective field offices as on 31.03.2019 is enclosed at “Annex.-C”.
33. IWAI has paid Rs.2.17 crore to Kolkata Port Trust (KPT) in March, 2017 towards upfront Lease Rent for separate land parcels taken at Swaroopganj, Nadia District (West Bengal) on long term lease for 30 years. This has been shown as advance and Lease Agreements is yet to be executed with KPT.
34. The land eroded at Neamati 7 Bighas, 2 Kathas, 14 Lessas costing Rs. 3,91,246/- Similarly the land eroded at Hatsingimari 12 Bighas, 4 Kathas, 9 Lessas costing Rs. 5,86,229/-. Keeping in view the anti-erosion work by water Resource Department and Brahmaputra Board at Neamati and Hatsingimari respectively the land may be reclaimed. As per the information received from Revenue Department the land can be reclaimed up to 15 year. Hence, the writing off the eroded land is not taken in books of accounts.
35. Annual Accounts has been prepared as per Accounting Standards issued by the Institute of Chartered Accountant of India as far as possible.
36. Re-grouping and re-classification has been done where considered necessary.
37. All the figures are rounded off to the nearest rupee and figures in () indicate negative figures.

For and on behalf of the Authority


(A. K. Gupta)
Director (F&A)


(Alok Ranjan)
Member (Finance)


(Pravir Pandey)
Vice-Chairman


(Dr. Amita Prasad)
Chairperson



ATUL K. GARG & CO.

Chartered Accountants
(A Peer Reviewed Firm)

Auditor's Report

1. We have audited the attached Balance Sheet of **Inland Waterways Authority of India Kaladan Project** as at 31st March, 2019 and also the Income & Expenditure Account for the year ended on that date annexed thereto. These financial statements are the responsibility of the project management. Our responsibility is to express an opinion on these financial statements based on our audit.
2. We conducted our audit in accordance with the auditing standards generally accepted in India. These Standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audit provides a reasonable basis for our opinion.
3. We report that:
 - (i) We have obtained all the information and explanations, which to the best of our knowledge and belief were necessary for the purpose of our audit ;
 - (ii) In our opinion, proper books of account as required by law have been kept by the Project so far as appears from our examination of those books.
 - (iii) The Balance Sheet and Income & Expenditure Account dealt with by this report are in agreement with the books of account of the Project.
 - (iv) In our opinion and to the best of our information and according to the explanations given to us, the said accounts read together with Significant Accounting Policies and Notes on Accounts in Schedule and those appearing elsewhere in the accounts give a true and fair view in conformity with the accounting principles generally accepted in India:
 - (a) In the case of the Balance Sheet, of the state of affairs of the project as at 31st March 2019;
 - (b) In the case of the Income & Expenditure Account, of the surplus/deficit for the year ended on that date.

For Atul K Garg & Co.
Chartered Accountants

CA. D.D. Goel
Partner
M. No. 90332

Place: Noida
Date: 26.06.2019

I W A I - KALADAN PROJECT
Balance Sheet as on 31.03.2019

		(Amount in Rupees)					
Previous Year	Liabilities	Schedule	Current Year	Previous Year	Assets	Schedule	Current Year
	Capital Reserve				Fixed Assets	I	
362,150	Capital for Fixed Assets		362,150	362,150	Gross Block		362,150
309,449	Less:- Replacement Reserve		309,449	309,449	Less: Depreciation		322,301
52,701			39,849	52,701	Net Block		39,849
949,197	Earnest Money Deposits		-	8,373	Loans & Advances		-
11,175,867	Expenses / Claims Payable		3,832,388	10,452	Tour Advances		12,146
5,530,047	GST Payable		4,667,978	2,480	Cash & Bank Balances		500,644
24,859,614	Retention Fund from MEA <i>(Refer Note I of Schedule II)</i>			692,000	Syndicate Bank, Noida		722,000
				35,564,000	United Bank of India, Noida		1,027,000
					Short Term Deposits with		
					Syndicate Bank, Noida		
					United Bank of India, Noida		
					Accrued Interest on FDR		14,645
					TDS Recoverable		6,223,931
42,567,426			8,540,215	42,567,426			8,540,215

Schedule - I to II form an integral part of accounts

For Atul K Garg & Co.
Chartered Accountants



CA. D.D. Goel
Partner
Place : Noida
Date : 26-06-2019

For and on behalf of I W A I Kaladan Project

(Signature)
(A. K. Gupta)
Director (F & A)

(Signature)
(S. V. K. Reddy)
Chief Engineer

I W A I - K A L A D A N P R O J E C T

Income & Expenditure Account for the year ended 31.03.2019

(Amount in Rupees)					
Previous Year	Expenditure	Current Year	Previous Year	Income	Current Year
169,267	Pay & Allowances	-	2,035,182	Bank Interest	649,527
21,724,934	Consultancy Charges	19,330,526	22,678	Sale of Tender Form	-
24,532	Postage, Telegram & Telegram	8,947	21,877,367	Consultancy Charge	20,191,636
777,886	Traveling Expenses - Abroad	613,899		(Refer note no. 2 of Schedule-II)	
-	- Inland	-	12,853	Replacement reserve as per contra	-
17,675	Audit Fee	19,004	7,617	(Being Depreciation as per Contra)	-
5,007	Meeting Expenses	-		Miscellaneous Receipts	
37,943	Bank Charges	157,962			
-	Interest on GST	237,262			
-	Miscellaneous Charges	98,630			
12,853	Depreciation	-			
185,600	Remuneration to experts	374,933			
22,955,697		20,841,163	23,955,697		20,841,163

Schedule - I to II form an integral part of accounts

For Atul K Garg & Co.

Chartered Accountants



CA. D.D. Goyal

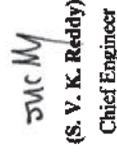
Partner

Place : Noida

Date : 26-06-2019

For and on behalf of I W A I Kaladan Project


(A. K. Gupta)
Director (T & A)


(S. V. K. Reddy)
Chief Engineer

Schedule - I

**IWAI - KALADAN PROJECT
SCHEDULE FOR FIXED ASSETS AS ON 31.03.2019**

Sl. No.	Particulars	Gross Block as on 31.03.2018	Addition During the Year	Adjustment	Gross Block as on 31.03.2019	Depreciation		Total Depreciation	Net Block as on 31.03.2019
						Upto 31.03.2018	For the Year Depreciation		
1	Furniture & Fixture	103,334	-	-	103,334	62,806	12,852	75,658	27,676
2	Computers	243,452	-	-	243,452	231,279	-	231,279	12,173
3	Temporary Structure	15,364	-	-	15,364	15,364	-	15,364	-
	Total	362,150	-	-	362,150	309,449	12,852	322,301	39,849

As per our report of even date
For Atul K Garg & Co.
Chartered Accountants



C.A. D.D. Goel

Partner

Place : Noida

Date : 26-06-2019

For and on behalf of IWAI Kaladan Project

SVC/M
(S. V. K. Reddy)
Chief Engineer

[Signature]
(A. K. Gupta)
Director (F & A)

Schedule - II

Notes forming part of accounts as on 31.03.2019

1. The Kaladan Multimodal Transit Transport Project in Myanmar is to be implemented in accordance with the Framework Agreement dated 02.04.2008 between the Govt. of India (GoI) and the Govt. of Myanmar (GoM) for development of an alternate transport connectivity between the mainland India and the N.E. states, especially Mizoram. Transit through Myanmar by a multimodal transport system is the principal part of the proposed connectivity. Ministry of External Affairs (MEA), Govt. of India as the Nodal Agency has appointed Inland Waterways Authority of India (IWAI) as the Project Development Consultant (PDC) for implementation of the project vide Agreement dated 19.03.2009 and supplementary agreement dated 28.04.2016. The responsibility of IWAI as PDC is at present for implementation of the Port & IWT components only. The IWAI will be the PDC for the implementation of the Project with the consultancy / management fee of 6% of the approved effective estimated cost or actual/ tendered cost (whichever is lower) plus other Statutory Taxes. Release of money to IWAI shall be as per the deliverables/ specific milestones of the projects and will be made in instalments. The cost of works pertaining to Port & IWT components awarded to the contractor is Rs. 832.03 crores. The project is to be fully funded by the MEA, Govt. of India.

The position of Advance Received from MEA towards Consultancy Charges as at 31.03.2019 is as under:

Particulars	Amount (Rs.)
Opening Balance on 01.04.2018	2,48,59,614.00
Add: Fund Received from MEA during the Year	0.00
Total Fund towards Consultancy Charges	2,48,59,614.00
Less: Utilized During the Year (Refer Note 2 of Schedule II)	2,01,91,636.00
Balance of Advance From MEA	46,67,978.00

2. Consultancy Charges has been accounted for to the extent of expenditure incurred during the Financial Year and has been adjusted from the "Advance Received from MEA" towards the Consultancy Charges.
3. Depreciation on fixed assets has been provided on SLM method over the useful life prescribed in schedule II to the Companies Act, 2013 after considering salvage value of five percent of original cost. The Company has considered useful life of assets same as prescribed under the Companies Act, 2016. The depreciation has been charged for the whole year in the year of purchase and no depreciation will be charged in the year of disposal/sale.

As per our report of even date

For Atul K Garg & Co.

Chartered Accountants

CA. D. D. Goel

Partner

Place: Noida

Date: 26.06.2019



For and on behalf of IWAI Kaladan Project

(A. K. Gupta)
Director (F & A)

(S. V. K. Reddy)
Chief Engineer

INLAND WATERWAYS AUTHORITY OF INDIA
Office-wise details of Land as on 31.03.2019

Sl. No.	Location of Land	Land Acquired (Per Sq. Mtr.)	Land under possession (Per Sq. Mtr.)	Title deed executed in the name of IWAI	Whether Mutation done (Yes/No)	Encroachments (if any)	Land Title is Freehold or Lease Hold	Remarks
	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
KOLKATA OFFICE								
A Operation & Maintenance of Terminal								
1	Haldia Purba Midnapore Distt., (W.B.)	10319	10319	Lease Basis w.e.f 15.03.1994	No	Nil	Leasehold	On monthly lease basis from Haldia Dock Complex, Kolkata Port Trust w.e.f. 15.03.1994
2	BISN/GRI-I Kolkata Distt. (W.B.)	30409.64	30409.64	Title deed under process	No	Nil	Land measuring 44,966.64 (30409.64 +14557) sqm has been permanently transferred by KoPT to IWAI and handed over the said land on 30th October 2018	
3	G.R. Jetty-II Kolkata Distt. (W.B.)	14557	14557		No	Nil		
4	Botanical Garden Jetty Howrah Distt. (W.B.)	996	996	Lease Basis w.e.f Dec'2004	No	Nil	Leasehold	Provided free of cost by Kolkata Port Trust w.e.f December,2004
5	Shantipur Nadia Distt. (W.B.)	8000	8000	Lease Basis w.e.f Aug'2008	No	Nil	Leasehold	Provided free of cost by Distt Magistrate, Nadia (W.B), Land taken over in August,2008
B Under JMVP								
1	Haldia, MMT, Purba Midnapur Distt., (W.B.)	246858,155	246858,155	Lease deed registration made on 23.04.2018	No	Nil	Leasehold	On 30 years long term lease basis w.e.f. - 02.11.2015 from HDC, Kolkata Port Trust
2	Farakka, New Navigational Lock, Murshidabad Distt., (W.B.)	14.86 Hectare	14.86 Hectare	Title deed under process	No	Nil	Leasehold	Transferred from Farakka Barrage Project, Farakka to IWAI (MOS).
C RIS/DGPS Station								
1	Swaroopganj Store Nadia Distt., West Bengal	290	290	Lease Basis w.e.f 18.08.2001	No	Nil	Leasehold	On monthly lease rent basis from Kolkata Port trust w.e.f 18.08.2001
2	Swaroopganj Store, Nadia Distt., West Bengal	22.5	22.5	Lease Basis w.e.f 18.08.2002	No	Nil	Leasehold	On monthly lease rent basis from Kolkata Port Trust w.e.f 18.08.2002
3	Swaroopganj Store Nadia Distt., West Bengal	25	25	Lease Basis w.e.f 01.01.2003	No	Nil	Leasehold	On monthly lease rent basis from Kolkata Port Trust w.e.f 01.01.2003

Sl. No.	Location of Land	Land Acquired (Per Sq. Mtr.)	Land under possession (Per Sq. Mtr.)	Title deed executed in the name of IWAI	Whether Mutation done (Yes/No)	Encroachments (if any)	Land Title is Freehold or Lease Hold	Remarks
	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
4	Swaroopganj (DCPS Store, Nadia Dist. West Bengal	2000	2000	Lease Basis w.e.f 28.02.2011	No	Nil	Leasehold	On 11 month lease rent basis from Kolkata Port Trust w.e.f 28.02.2011.
5	Office Building at P-78, Garden Reach Road, Kolkata-700043, West Bengal	941	941	Lease Basis w.e.f 01.07.2005	No	Nil	Leasehold	On 11 month lease basis from Kolkata Port Trust w.e.f 01.07.2005
6	Balia, (RIS Station), Murshidabad, Distt., West Bengal	539.98	539.98	Lease Basis w.e.f 01.11.2013	No	Nil	Leasehold	On 5 years lease rent basis extendable up to 30 years (@ 15% escalation after every five years), w.e.f. 01/11/2013 taken from Sri Asit Ghosh, S/o Late Bankim Chandra Ghosh, Vill+PO - Balia, PS - Sagar Dighi, West Bengal-742237, Mouza-Balia, JL No. 140, Plot No. 2196, Khatian N. 886/Hal Khatian 610
7	Kumarpur (RIS Station), Murshidabad Distt., West Bengal	919	919	Lease Basis w.e.f 01.11.2013	No	Nil	Leasehold	On 5 years lease rent basis extendable up to 30 years (@ 15% escalation after every five years), w.e.f. 01/11/2013 taken from Sri Tapas Mandal, S/o Sri Sashigopal Mandal, Vill- + PO Kumarpur, PS Beldanga, Distt- Murshidabad, West Bengal-742189, Mouza-Kumarpur, JL No. 44, Plot No. 157 & 157/2560
8	Tribeni(RIS Station) Bansberia, Dist. - Hooghly, West Bengal	664.23	664.23	Lease Basis w.e.f 01.01.2014	No	Nil	Leasehold	On 5 years lease rent basis extendable up to 30 years (@ 15% escalation after every five years), w.e.f. 01/01/2014 taken from Sri Sanjib Kumar Singh, S/o Late Prem Kumar Singh, Maha Kalitala Lane, Bansberia, PS. Mogra, Dist. - Hooghly, West Bengal -712502, Mouza-Bansberia, RS Dag No. 941(p), R.S. KH No. 1456, Area 7150.00 sqft (0.164 Acre), P.S. Mogra, Dist. - Hooghly (W.B.)
D	Existing Navigational Lock							
1	Farakka, Existing Navigational Lock, Murshidabad Distt., West Bengal	7.155 Hectare	7.155 Hectare	Title deed under process	No	Nil	Freehold	Handed over to IWAI on 9/4/2018 by FBP
PATNA OFFICE								
1	Caighat, Patna, Distt - Patna	11868.23	11868.23		Yes	No	Freehold	Low Level Jetty, Terminal
2		4046.86	4046.86	07.10.2013	Yes	No	Freehold	High Level Jetty, DGPS Station, RIS Station
3		17401.50	17401.50	No, But land under possession of IWAI since 27.01.1987	No	No	Freehold	National Inland Navigation Institute
4		5539.34	5539.34	07.10.2013	Yes	No	Freehold	NINI Extension

Sl. No.	Location of Land	Land Acquired (Per Sq. Mtr.)	Land under possession (Per Sq. Mtr.)	Title deed executed in the name of IWAI	Whether Mutation done (Yes/No)	Encroachments (if any)	Land Title is Freehold or Lease Hold	Remarks
	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
5	Bari Khanjarpur, Bhagalpur, Distt - Bhagalpur	15620.87	15620.87	16.03.2013	Yes	No	Freehold	DGP Station, RIS Station
6	Khas Mahal Gird Kila, Munger, Distt - Munger	13759.31	13759.31	No, But land under possession of IWAI since 19.06.1995	No	40% Encroachment	Freehold	RIS station
7	Dungurpur, Jallapur, Distt. - Ghazipur	43860	43860	21.09.2017, 17.10.2017, 17.11.2017, 18.11.2017, 01.12.2017, 18.01.2018, 16.02.2018, 17.02.2018, 22.02.2018, 26.02.2018, 27.02.2018, 21.03.2018, 23.03.2018	Yes	No	Freehold	Terminal, Approach Road
8	Milkipur, Distt. - Chandauli	9740.67	9740.67	Land under possession of IWAI	Yes	No	Freehold	IWAI Freight Village
9	Lawain Khurd, Allahabad, Distt - Allahabad	87590	87590	25.01.2004	Yes	No	Freehold	Land for IWT Terminal
10	Samdanala, Sahibganj, Distt - Sahibganj	741099.64	741099.64	04.01.2019	Yes	No	Freehold	IWAI Multimodal Terminal
11	Manihari Maskan, (Manihari), Distt - Katihar	743.49	743.49	Leasehold under possession of IWAI w.e.f. 07.02.2017	Not required, as land has in acquired on lease basis.	No	Leasehold	On lease basis for 29 years 11 months taken from Smt. Chandrakanta Bai, C/o Sh. Pradeep Narayan Singh, Vill-Manihari, Maskan, P.O.- Manihari, Distt - Katihar. Lease deed registered on 07.02.2017.
12	Marachi, Hatidah, Distt - Patna	743.49	743.49	Leasehold under possession of IWAI w.e.f. 03.05.2016	Not required, as land has in acquired on lease basis.	No	Leasehold	On lease basis for 29 years 11 months taken from Sh. Hariwansh Prasad Singh, C/o Sh. Vinod Singh, Vill + PO + PS - Marachi, Distt - Patna. Lease deed registered on 03.05.2016.
13	Nawada, Barh, Distt - Patna	662.64	662.64	Leasehold under possession of IWAI w.e.f. 03.05.2016	Not required, as land has in acquired on lease basis.	No	Leasehold	On lease basis for 29 years 11 months taken from Sh. Abhishek Kumar Singh, C/o Sh. Ravindra Singh, Vill - Nawada, P.O. - Mohammadpur, Distt - Patna. Lease deed registered on 03.05.2016.

Sl. No.	Location of Land	Land Acquired (Per Sq. Mtr.)	Land under possession (Per Sq. Mtr.)	Title deed executed in the name of IWAI	Whether Mutation done (Yes/No)	Encroachments (if any)	Land Title is Freehold or Lease Hold	Remarks
	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
14	Mauzampur, Ara, Distt. - Bhojpur	797.03	797.03	Leasehold under possession of IWAI w.e.f. 31.08.2017	Not required, as land has in acquired on lease basis.	No	Leasehold	On lease basis for 29 years 11 months taken from Sh. Deo Ballav Singh, C/o Late Ramchandra Singh, Vill - Mauzampur, PO. - Mahulighat, Distt - Bhojpur. Lease deed registered on 31.08.2017.
15	Govindpur Khas, Bharauli, Distt - Ballia	743.49	743.49	Leasehold under possession of IWAI w.e.f. 22.12.2016	Not required, as land has in acquired on lease basis.	No	Leasehold	On lease basis for 29 years 11 months taken from Sh. Akshay Kumar Rai, C/o Sh. Yugul Kishore Rai, Vill - Bharauli, PO. - Bharauli, Distt - Ballia. Lease deed registered on 22.12.2016.
VARANASI OFFICE								
1	Ralhupur, Ramnagar, Varanasi, Distt - Varanasi	55860	55860	03.08.2010	Yes	No	Freehold	DG:PS Station, RIS Station, Multimodal Terminal
2	Ralhupur, Ramnagar, Varanasi, Distt - Varanasi	143760	143760	09.03.2016, 16.03.2016, 07.12.2016, 31.03.2017, 01.09.2017, 04.09.2017, 21.11.2017, 05.02.2018, 29.05.2018	Yes	No	Freehold	Terminal extension, Approach Road
3	Dharammarpur, Uparwar, Distt - Ghazipur	632.34	632.34	Leasehold under possession of IWAI w.e.f. 22.12.2017	Not required, as land has in acquired on lease basis.	No	Lease Hold	On lease basis for 25 years taken from Smt. Rita Singh, W/o Sh. Nagendra Singh, Vill - Kataria, PO.- Dharammarpur, Tehsil - Ghazipur, Distt - Ghazipur. Lease deed registered on 22.02.2017.
GUWAHATI OFFICE								
1	Pandu Kamrup Metro Distt.	77870	77870	Govt. of India Land (Railway) Title deed not executed in the name of IWAI	No	No	Govt Land (Railway)	Govt land takeover from CIWTC. As per revenue record the land in Pandu is in the name of Rly. Deptt. However, the land is in possession of IWAI.
2	Jogighopa (Terminal) Bongaigaon Distt.	164700	164700	Govt. of India Land. Title deed not executed in the name of IWAI	No	No	Freehold	Title deed not executed. Applied for mutation in the name of IWAI. Circle Officer Boltamary submitted report to DC for approval of mutation. This part of Jogighopa land is free from encroachment and is in the possession of IWAI.
3	Neamati, Jorhat Distt.	20000	20000	Acquired through Govt. of Assam As per telephonic conversation on 15/05/2018 with Circle Officer title deed has been executed in the name of IWAI.	Yes	Yes	Freehold	Land partly eroded. Eroded report received from ADC Jorhat. Demarcation completed on 12.11.2018 by fixing trench pillars. IWAI is now creating infrastructure for Ro-Ro facilities at this location. The Ro-Ro service has already been started from Neamati to Kamalabari. However, due to encroachment it has become difficult for IWAI to plan out the development activities. Govt of Assam is requested to get the IWAI land vacated at the earliest

Sl. No.	Location of Land	Land Acquired (Per Sq. Mtr.)	Land under possession (Per Sq. Mtr.)	Title deed executed in the name of IWAI	Whether Mutation done (Yes/No)	Encroachments (if any)	Land Title is Freehold or Lease Hold	Remarks
	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
4	Hatingimani, Dhubri Distt.	17240	17240	Acquired through Govt. of Assam Title deed not executed in the name of IWAI	No	-	Freehold	Land completely eroded as per Deputy Commissioner, South Salmara, Manchar, Hatingimari letter No. HL/A-1/2017/21 dated 20.09.2018.
5	Dibrugarh, Dibrugarh Distt.	40190	40190	Executed in the name of IWAI on 18.10.2012	Yes	No	Freehold	IWT terminal & DGPS station. Terminal land demarcation done on 20/02/2019 by fixing trench pillar. Record correction is under process by Circle Officer. The relevant documents have been submitted at the time of demarcation.
6	Shlghat, Nagaon Distt.	20070	20070	Executed in the name of IWAI on 24.01.2013	Yes	-		Land has been eroded completely as per ADC Nagoan letter no. NRS/65/2014/63 dated 18.09.2018
7	Bishwanathghat, Sonitpur Distt.	6300	6300	Executed in the name of IWAI on 16.03.2013	Yes	No	Freehold	IWAI terminal running
8	Dhubri, Dhubri Distt.	32500	32500	Executed in the name of IWAI on 18.07.2013	Yes	No	Freehold	Terminal is running.
9	Oriumghat, Dhemaji Distt.	26000	26000	Acquired through Govt. of Assam Title deed not executed in the name of IWAI	No	No	Freehold	Mutation of land could not be done as SDO(C), Jonai has disbursed 80% money to the land owners, and remaining 20% has been put into Revenue Deposit by mistake. Matter has been taken up with DC Dhemaji. SDO Jonai wrote letter to Commissioner Secretary, Govt of Assam, Dispur vide letter no. JN/3/2013/16/1150-552 dated 20/12/2018 to release the compensation amount alongwith contingency deposited in the State exchequer vide Challan No. 2015/08/00562 dated 17/8/2015 money. Matter has been taken with Secretariate, Dispur and is still pending for disposal.
10	Old Jogighopa Port	416826	NIL	Govt. of India land Title deed not executed in the name of IWAI	No	Yes	Freehold	151 acre land of Jogighopa port was acquired by SDO (Civil) Goalpara, land acquisition Branch in the year 1965-66 vide land acquisition case No. 26L/65-66 & handed over to SDO (PWD), Abhayapuri for development. After development as per instruction received from Ministry of Shipping & Transport, Govt of India (Now Ministry of Shipping, Road Transport & Highway) vide letter No. 3-IWT (10)/69 dated 18th August 1970, Union of India Instructed CIWTC to maintain two ports (Jogighopa & Pandu) on Agency basis as caretaker. 40.70 acre land were taken over by IWAI on 17/01/2004 from CIWTC Ltd..

Sl. No.	Location of Land	Land Acquired (Per Sq. Mtr.)	Land under possession (Per Sq. Mtr.)	Title deed executed in the name of IWAI	Whether Mutation done (Yes/No)	Encroachments (if any)	Land Title is Freehold or Lease Hold	Remarks
	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
								It is well protected. This portion of Jogighopa land is free from encroachment. Another part of land measuring 103 acre were taken over from CIWTC on 26.04.2017. This land at Jogighopa is encroached by unauthorised people. But it could not be evicted due to WP(C) No. 6230/2017 case filed in the Hon'ble Gauhati High Court by 68 Nos. of unauthorised encroachers. Again, another WP(C) 6299/2017 has been filed in the Hon'ble Gauhati High Court by affected land owners of Jogighopa & Bhatipara for payment of compensation due to them. Mutation of the land at Jogighopa is in the process. On 9th July 2018 SDO (Civil) Abhayapuri vide his letter no. NSRP/LA/IWAI/27/2017/75 advised Circle Officer Boitamari to Mutate 231 Bigha 01 Katha 11Lessa (71 Acre approx) in favour of IWAI in 1st phase after approval of DC Bongaigaon. Parawise comments/affidavit submitted to Hon'ble Gauhati High Court against Case No. WP(C) 230/2017 & against case no. WP(C) 6299/2017 SDO Civil will call a meeting with the land owners to settle out the case of the court after the parliamentary election. Last date of hearing was on 18/03/2019
11	Agency Bungalow at Dibrugath	6314	6314	Executed in the name of IWAI on 7.11.2017	Yes	No	Freehold	Takenover from CIWTC. Mutation completed. Branch office running.
12	Karimganj, Steamer Ghat	7237	7237	Executed in the name of IWAI on 30.01.2018	Yes	No	Freehold	Land takenover from CIWTC. Mutation completed
13	Badarpur, Steamer Ghat	4361	4361	Executed in the name of IWAI on 29.01.2018	Yes	No	Freehold	Patta land of CIWTC takenover. Mutation completed
14	Uzanbazaar	1258	1258	Executed in the name of IWAI on 26.04.2018	Yes	No	Freehold	Mutation completed. Boundary fencing completed.
15	Silchar	141801.83	141801.83	Acquisition process is going on	No	No	Yet not finalised	Acquisition of land for setting up the proposed IWT terminal and logistic park at Ranighat (Silchar) for IWAI. Joint spot verification and survey completed. Joint field observation and joint inspection with Land acquisition Department, Settlement office and Agricultural Department in presence of AD (Silchar) is completed and report finalized. (ii) Joint inspection report including finalized map were forwarded to

Sl. No.	Location of Land	Land Acquired (Per Sq. Mtr.)	Land under possession (Per Sq. Mtr.)	Title deed executed in the name of IWAI	Whether Mutation done (Yes/No)	Encroachments (if any)	Land Title is Freehold or Lease Hold	Remarks
	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
16	Fancy Bazar, Guwahati	2157.4	2157.4	Govt. Land. Title deed not executed in the name of IWAI. CIWTC handed over the land to IWAI as custodian.	No	No	Freehold	Social Work Department of Silchar University for their final assessment and report vide letter dated 01.08.2018. (iii) SIA submitted report to DC Silchar. (iv) DC Silchar wrote for Gazetted Notification. Guwahati office submitted all documents for gazetted notification to the Joint Secretary, Govt of Assam, Revenue & Disaster Management (LR) Department, Dispur, Guwahati-06 vide letter no. IWAI/GHY/3(ST)/2017/540, dtd 15.10.2018 which was received from ADC, Cachar, Silchar vide letter no. CLA.6/2018/24, dtd 04th September 2018. Matter has been taken up with Joint Secretary, Govt of Assam. Question of requisition of land at Ranighat is still pending at HQ, Noida. All documents sent to by Regional Office to HO, Noida in a chronological order for taking up the matter with Ministry. Decision in this regard may be taken early.
KOCHI OFFICE								
1	Kottappuram Terminal, Thrissur District	5823	5823	Possession and enjoyment Certificate obtained	Yes	No	Freehold	Land Transferred into the name of IWAI
2	Aluva Terminal, Ernakulam District	13310	13310	Possession and enjoyment Certificate obtained	Yes	No	Freehold	-do-
3	Maradu Terminal, Ernakulam District	20085	20085	Possession and enjoyment Certificate obtained	Yes	No	Freehold	-do-
4	Kakkanad Terminal, Ernakulam District	12205	12205	Under process	No	No	Freehold	Transferring land into the name of IWAI is under process
5	Vaikkom Terminal, Kottayam District	5184	5184	Possession and enjoyment Certificate obtained	Yes	No	Freehold	Land Transferred into the name of IWAI

Sl. No.	Location of Land	Land Acquired (Per Sq. Mtr.)	Land under possession (Per Sq. Mtr.)	Title deed executed in the name of IWAI	Whether Mutation done (Yes/No)	Encroachments (if any)	Land Title is Freehold or Lease Hold	Remarks
	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
6	Thrikkunnapuzha Terminal, Alappuzha District	5057	5057	Possession and enjoyment Certificate obtained	Yes	No	Freehold	-do-
7	Thanneermukkom Terminal, Alappuzha District	9170	9170	Possession and enjoyment Certificate obtained	Yes	No	Freehold	-do-
8	Alappuzha Terminal, Alappuzha District	22550	22550	Possession and enjoyment Certificate obtained	Yes	No	Freehold	-do-
9	Kayamkulam Terminal, Kollam District	16332	16332	Possession and enjoyment Certificate obtained	Yes	No	Freehold	-do-
10	Chavara Terminal, Kollam District	8061	8061	Under process	No	No	Freehold	Transferring land into the name of IWAI is under process
11	Kollam Terminal, Kollam District	5812	5812	Under process	No	No	Freehold	Transferring land into the name of IWAI is under process
12	Land acquired for widening of canals in;							* Land 182995 sq. mtr. subsumed in canal as on 31/3/2019 and cost booked in revenue expenditure.
	1) Alappuzha District	113147	113147	Since the land acquired for widening waterway has been submerged in canal and no physical land is available. Hence the same is not processed for mutation.	No	No	Freehold	Land Transferred into the Name of National Waterway Purambokke in village records
	2) Kollam District	102178	102178		No	No	Freehold	Transferring land into the name of National Waterway Purambokke in village records is under process
	Sub Total	338914						
DETAILS OF LAND TAKEN OVER ON LEASE BASIS FROM COCHIN PORT TRUST								
1	Ro Ro Terminal,	3000	3000	Lease Deed executed between IWAI and CoPT on 15/06/2016 for 30 years w.e.f. 23/04/2010			Lease rent Rs. 3,000/- per year (@ Rs. 1/- per M ²)	No

**INLAND WATERWAYS AUTHORITY OF INDIA
SCHEDULE OF FIXED ASSETS AS ON 31.03.2019**

1	PARTICULARS	GROSS BLOCK AS ON 31.03.2018	ADDITIONS DURING THE YEAR	ADJUSTMENT/ DEDUCTIONS	GROSS BLOCK AS ON 31.03.2019 (3+4+5)	DEPRECIATION/ AMORTISATION		ADJUSTMENT ON ACCOUNT OF ASSETS SOLD/ TRANSFERRED	TOTAL DEPRECIATION AS ON 31.03.2019 (7+8+9)	NET BLOCK AS ON 31.03.2019 (6 - 10)
						AS ON 31.3.2018	FOR THE YEAR			
2	3	4	5	6	7	8	9	10	11	
NOIDA	Survey Equipment	25,61,260	-	-	25,61,260	23,84,257	3,679	-	23,87,936	1,73,324
	Vehicles	22,58,620	-	-	22,58,620	11,49,693	2,07,501	-	13,57,194	9,01,426
	Furniture & Fixture	72,77,471	56,560	-	73,34,031	43,86,342	3,99,246	-	47,85,588	25,48,443
	Office Equipment	1,21,46,528	66,002	-	1,22,12,530	53,31,107	16,00,413	-	69,31,520	52,81,010
	Electric Installation	1,17,19,138	-	-	1,17,19,138	47,00,848	10,08,749	-	57,09,597	60,09,541
	Air Conditioners	2,10,10,589	2,49,862	-	2,12,60,451	89,97,765	18,60,453	-	1,08,58,218	1,04,02,233
	Water Coolers & Refrigerators	1,82,751	-	-	1,82,751	1,73,614	-	-	1,73,614	9,137
	Fans & Air-Coolers	11,87,013	-	-	11,87,013	11,13,592	3,295	-	11,16,887	70,126
	Generator Set	70,47,195	-	-	70,47,195	27,26,914	3,60,283	-	30,87,197	39,59,998
	Cycle	27,711	-	-	27,711	25,543	569	-	26,112	1,599
	Temporary Structure	7,10,114	-	-	7,10,114	7,10,114	-	-	7,10,114	-
	Library Books	13,31,066	63,481	-	13,94,547	13,31,066	63,481	-	13,94,547	-
	Computer	2,41,00,897	21,73,084	-	2,62,73,981	1,81,89,704	27,36,343	-	2,09,26,047	53,47,934
	computer (Survey)		29,90,000		29,90,000		12,970		12,970	29,77,030
	Communication equip.	15,23,420	-	-	15,23,420	11,64,168	1,41,540	-	13,05,708	2,17,712
	Building	11,01,97,880	-	-	11,01,97,880	3,27,25,159	18,95,557	-	3,46,20,716	7,55,77,164
	Computer Software	20,42,563	2,07,684		22,50,247	15,23,237	1,95,338	-	17,18,575	5,31,672
Residence Quarter	3,08,57,003	-	-	3,08,57,003	79,32,696	4,74,684	-	84,07,380	2,24,49,623	
Car Parking	2,33,92,491	-	-	2,33,92,491	32,45,158	3,38,921	-	35,84,079	1,98,08,412	
Lease -Land	1,79,51,542	-	-	1,79,51,542	-	2,71,655	-	2,71,655	1,76,79,887	
Passenger Lift	46,12,400	-	-	46,12,400	6,39,862	66,827	-	7,06,689	39,05,711	
TOTAL (A)	28,21,37,652	58,06,673	-	28,79,44,325	9,84,50,839	1,16,41,504	-	11,00,92,343	17,78,51,982	
Terminal	44,45,03,646	2,50,50,335	-	46,95,53,981	7,23,26,054	1,32,95,407	-	8,56,21,461	38,39,32,520	
Vehicles	11,84,049	-	-	11,84,049	4,62,658	1,32,793	-	5,95,451	5,88,598	
Furniture & Fixture	14,86,237	94,494	-	15,80,731	10,91,957	94,697	-	11,86,654	3,94,077	
Office Equipment	8,27,319	49,500	-	8,76,819	6,17,480	54,333	-	6,71,813	2,05,006	

KOLKATA

INLAND WATERWAYS AUTHORITY OF INDIA



1	PARTICULARS	GROSS BLOCK AS ON 31.03.2018	ADDITIONS DURING THE YEAR	ADJUST- MENT/ DEDUCTIONS	GROSS BLOCK AS ON 31.03.2019 (3+4+5)	DEPRECIATION/ AMORTISATION		ADJUSTMENT ON ACCOUNT OF ASSETS SOLD/ TRANSFERRED	TOTAL DEPRECIATION AS ON 31.03.2019 (7+8+9)	NET BLOCK AS ON 31.03.2019 (6 - 10)
						AS ON 31.3.2018	FOR THE YEAR			
2	3	4	5	6	7	8	9	10	11	
Electric Installation	67,889	-	-	67,889	54,251	5,735	-	59,986	7,903	
Survey Instruments	2,60,22,845	-	-	2,60,22,845	1,79,89,751	12,54,369	-	1,92,44,120	67,78,725	
Library Books	1,35,388	-	-	1,35,388	1,35,388	-	-	1,35,388	-	
Speed Boats	39,53,684	-	(11,20,418)	28,33,266	36,05,102	19,691	(9,65,865)	26,58,928	1,74,338	
Vessels Ordinary	21,97,18,583	-	-	21,97,18,583	9,59,57,780	52,40,032	-	10,11,97,812	11,85,20,771	
Fans & Air Coolers	91,073	-	-	91,073	66,263	4,220	-	70,483	20,590	
Communication Network	5,17,313	35,82,254	-	40,99,567	4,49,108	4,64,345	-	9,13,453	31,86,114	
Barges	11,63,31,102	-	-	11,63,31,102	3,39,34,202	23,79,222	-	3,63,13,424	8,00,17,678	
Cycles	5,975	-	-	5,975	4,488	230	-	4,718	1,257	
Vessel Dredging Unit	22,07,95,370	-	(1,41,02,074)	20,66,93,296	7,41,80,061	55,25,186	(79,66,619)	7,17,38,628	13,49,54,668	
Computers	28,80,944	50,510	-	29,31,454	25,68,235	99,973	-	26,68,208	2,63,246	
Computers Software	17,47,908	8,14,200	-	25,62,108	16,00,110	1,50,488	-	17,50,598	8,11,510	
Night Nav. Equipment	5,24,90,218	78,26,736	(11,35,355)	5,91,81,599	2,44,38,576	26,88,784	(5,82,765)	2,65,44,595	3,26,37,004	
Air Conditioner	7,28,854	-	-	7,28,854	3,53,541	72,744	-	4,26,285	3,02,569	
Generator Set	11,85,869	-	-	11,85,869	4,56,600	77,893	-	5,34,493	6,51,376	
RIS Station Structure	1,98,69,240	-	-	1,98,69,240	7,03,019	3,14,973	-	10,17,992	1,88,51,248	
RIS Equipment	14,06,67,890	1,15,00,000	-	14,06,67,890	1,98,92,613	89,08,966	-	2,88,01,579	11,18,66,311	
Terminal -Land	-	-	-	1,15,00,000	-	-	-	-	1,15,00,000	
DGP Station	1,42,15,359	-	-	1,42,15,359	50,41,335	7,05,271	-	57,46,606	84,68,753	
TOTAL (B)	1,26,94,26,755	1,18,74,68,029	(1,63,57,847)	2,44,05,36,937	35,59,28,572	4,14,89,352	(95,15,249)	38,79,02,675	2,05,26,34,262	
Land	3,50,51,542	-	(1,34,31,442)	2,16,20,100	-	-	-	-	2,16,20,100	
Vehicle	26,20,377	-	-	26,20,377	7,10,074	2,24,325	(53,071)	8,81,328	17,39,049	
Furniture & Fixture	25,49,923	1,05,752	(31,940)	26,23,735	9,98,413	1,94,557	26,487	12,19,457	14,04,278	
Office Equipment	2,43,013	1,37,610	-	3,80,623	1,71,208	45,773	-	2,16,981	1,63,642	
Electric Installation	12,05,885	13,67,623	-	25,73,508	99,995	1,87,259	-	2,87,254	22,86,254	
Air Conditioners	13,54,325	-	-	13,54,325	4,77,310	1,22,670	-	5,99,980	7,54,345	
Water Coolers & Refrigerators	-	-	-	-	-	-	-	-	-	
Generator Set	70,950	-	-	70,950	44,922	7,507	-	52,429	18,521	
Survey Instruments	3,19,84,099	2,16,506	-	3,22,00,605	1,38,79,801	17,32,906	-	1,56,12,707	1,65,87,898	
Vessels: Dredging Unit	75,93,17,747	-	4,56,81,834	80,49,99,581	43,06,21,526	1,28,43,990	1,35,19,739	45,69,85,255	34,80,14,326	

PATNA

1	2	3	4	5	6	DEPRECIATION/ AMORTISATION		9	10	11
						AS ON 31.3.2018	FOR THE YEAR			
PARTICULARS	GROSS BLOCK AS ON 31.03.2018	ADDITIONS DURING THE YEAR	ADJUST- MENT/ DEDUCTIONS	GROSS BLOCK AS ON 31.03.2019 (3+4+5)	AS ON 31.3.2018	FOR THE YEAR	ADJUSTMENT ON ACCOUNT OF ASSETS SOLD/ TRANSFERRED	TOTAL DEPRECIATION AS ON 31.03.2019 (7+8+9)	NET BLOCK AS ON 31.03.2019 (6 - 10)	
Vessels: Ordinary	10,88,19,402		(15,43,679)	10,72,75,723	4,53,28,274	30,57,507	(6,11,050)	4,77,74,731	5,95,00,992	
Speed Boat	26,62,309		-	26,62,309	18,09,021	72,485	-	18,81,506	7,80,803	
Barges	8,83,97,700	43,96,896	(5,61,255)	9,22,33,341	4,18,00,244	16,67,872	(5,33,192)	4,29,34,924	4,92,98,417	
Temporary Structure	-		-	-	-	-	-	-	-	
Computer	43,31,379	3,18,200	(99,500)	45,50,079	39,16,726	2,05,499	(70,346)	40,51,879	4,98,200	
Library Books	1,07,521			1,07,521	1,07,521	-		1,07,521	-	
Survey Equip(compu)	48,57,317		-	48,57,317	45,98,292	6,149	-	46,04,441	2,52,876	
Survey Pillars	6,49,995			6,49,995	4,16,370	22,368		4,38,738	2,11,257	
Communication Equip.	13,45,844		-	13,45,844	10,86,321	49,415	-	11,35,736	2,10,108	
Building on Free Hold Land	5,60,92,481	9,94,949		5,70,87,430	23,43,745	8,91,113		32,34,858	5,38,52,572	
Building on Lease Hold Land	1,50,15,577	74,01,220		2,24,16,797	84,780	3,79,699		4,64,479	2,19,52,318	
Boundary Wall	63,93,000		-	63,93,000	2,02,018	1,01,009	-	3,03,027	60,89,973	
Terminals & Building - BOUYS	60,35,43,876		(6,34,118)	60,29,09,758	20,44,67,455	1,63,16,682	(21,684)	22,07,62,453	38,21,47,305	
Night Navigation	92,77,200			92,77,200	45,68,581	4,94,680		50,63,261	42,13,939	
DGPS STATION	3,22,45,501		-	3,22,45,501	1,23,92,535	16,40,687	-	1,40,33,222	1,82,12,279	
BEACON Tower	1,58,95,321		-	1,58,95,321	68,64,452	10,29,866		78,94,318	80,01,003	
SHOAL ANALYSIS	49,26,846		-	49,26,846	40,59,778	6,20,725	-	46,80,503	2,46,343	
RIS Station	7,49,51,957	2,71,97,609	-	10,21,49,566	24,68,434	58,06,966	-	82,95,400	9,38,54,166	
Sewarage Treatment Plant	1,02,88,000	6,00,000	-	1,08,88,000	10,54,511	6,63,567	-	17,18,078	91,69,922	
CRANE	4,63,26,824			4,63,26,824	3,17,89,381	49,74,600		3,67,63,981	95,62,843	
TOTAL (C)	1,92,05,25,911	4,27,36,365	2,93,79,900	1,99,26,42,176	81,63,81,688	5,33,59,876	1,22,56,883	88,19,98,447	1,11,06,43,729	
Communication Equipment	14,83,738	20,650		15,04,388	10,47,718	87,631		11,35,349	3,69,039	
Vehicles	15,76,029		-	15,76,029	3,04,771	1,24,891		4,29,662	11,46,367	
Furniture & Fixture	12,44,611	2,42,428		14,87,039	7,49,018	81,864		8,30,882	6,56,157	
Office Equipment	7,08,548	54,243	7,461	7,70,252	4,38,877	62,132	(3,186)	4,97,823	2,72,429	
Electric Installation	50,819			50,819	36,611	2,542		39,153	11,666	
Fans & Air-Coolers	51,180			51,180	29,686	3,740		33,426	17,754	
Survey Instruments	1,54,48,317	6,372		1,54,54,689	95,69,211	8,18,896		1,03,88,107	50,66,582	

GUWAHATI

INLAND WATERWAYS AUTHORITY OF INDIA



1	2	3	4	5	6	DEPRECIATION/ AMORTISATION		9	10	11
						AS ON 31.3.2018	FOR THE YEAR			
	PARTICULARS	GROSS BLOCK AS ON 31.03.2018	ADDITIONS DURING THE YEAR	ADJUSTMENT/ DEDUCTIONS	GROSS BLOCK AS ON 31.03.2019 (3+4+5)	AS ON 31.3.2018	FOR THE YEAR	ADJUSTMENT ON ACCOUNT OF ASSETS SOLD/ TRANSFERRED	TOTAL DEPRECIATION AS ON 31.03.2019 (7+8+9)	NET BLOCK AS ON 31.03.2019 (6 - 10)
	Cycle	680	-	-	680	646	-	-	646	34
	Library Books	42,165	2,010	-	44,175	42,165	2,010	-	44,175	-
	Vessel Speed Boat	40,21,123	-	-	40,21,123	28,15,351	1,86,989	-	30,02,340	10,18,783
	Generator Set	1,19,500	-	-	1,19,500	37,287	5,281	-	42,568	76,932
	Computer	53,13,759	3,47,092	-	56,60,851	40,49,371	2,59,856	-	43,09,227	13,51,624
	Terminals- Pandu	1,28,44,64,941	49,86,80,933	(6,87,382)	1,78,24,38,492	29,05,30,547	4,68,52,283	(1,79,217)	33,72,03,613	1,44,52,54,879
	Night Navigation Equip.	1,34,97,302	21,19,950	-	1,56,17,252	92,75,629	8,46,492	-	1,01,22,121	54,95,131
	Barges	13,37,45,241	-	-	13,37,45,241	5,40,39,549	39,77,008	-	5,80,16,557	7,57,28,684
	Vessels - Ordinary	72,22,16,775	32,53,87,768	-	1,04,76,04,543	8,43,29,434	2,79,24,164	-	11,22,53,598	93,53,50,945
	Land Terminal	12,85,44,213	5,000	-	12,85,49,213	-	-	-	-	12,85,49,213
	Vessels Dredging Unit	1,48,91,29,954	-	1,51,24,578	1,50,42,54,532	45,22,90,650	3,79,75,560	1,43,68,350	50,46,34,560	99,96,19,972
	CRANE	4,49,69,796	-	-	4,49,69,796	2,88,82,908	46,21,240	-	3,35,04,148	1,14,65,648
	Air Conditioner	8,22,400	-	(24,400)	7,98,000	1,92,774	75,520	(2,023)	2,66,271	5,31,729
	RIS Equipment	42,07,723	-	-	42,07,723	2,75,263	2,66,488	-	5,41,751	36,65,972
	Building	-	-	-	-	-	-	-	-	-
	TOTAL (D)	3,85,16,58,814	82,68,66,446	1,44,20,257	4,69,29,45,517	93,89,37,466	12,41,74,587	1,41,83,924	1,07,79,95,977	3,61,56,49,540
SAHIBGANJ	Buoys	54,467	-	-	54,467	51,744	-	-	51,744	2,723
	Vehicle	13,88,939	-	-	13,88,939	2,16,780	1,17,446	-	3,34,226	10,54,713
	Furniture & Fixtures	2,51,412	24,990	-	2,76,402	1,79,063	9,410	-	1,88,473	87,929
	Office Equipment	1,82,810	-	-	1,82,810	88,123	25,155	-	1,13,278	69,532
	Electric Installation	3,227	-	-	3,227	3,066	-	-	3,066	161
	Fans & Air Coolers	25,819	-	-	25,819	11,764	1,828	-	13,592	12,227
	Survey Instruments	25,85,423	21,180	-	26,06,603	21,03,443	67,414	-	21,70,857	4,35,746
	Barges	5,61,255	-	-	5,61,255	5,33,192	-	28,063	5,61,255	-
	Cycle	701	-	-	701	666	-	-	666	35
	Library Books	25,805	-	-	25,805	25,805	-	-	25,805	-
	Communication Equipment	1,57,026	-	-	1,57,026	1,49,175	-	-	1,49,175	7,851
	Land	36,734	-	-	36,734	-	-	-	-	36,734
	Computers	2,37,197	-	-	2,37,197	2,25,338	-	-	2,25,338	11,859
	DGPS STATION	1,83,20,308	-	-	1,83,20,308	81,61,516	10,28,540	-	91,90,056	91,30,252
	Terminals-	28,56,463	17,14,363	-	45,70,826	6,75,937	81,874	-	7,57,811	38,13,015
	Air-Conditioner	20,000	-	-	20,000	7,642	1,921	-	9,563	10,437
	TOTAL (E)	2,67,07,586	17,60,533	-	2,84,68,119	1,24,33,254	13,33,588	28,063	1,37,94,905	1,46,73,214

1	PARTICULARS	GROSS BLOCK AS ON 31.03.2018	ADDITIONS DURING THE YEAR	ADJUSTMENT/ DEDUCTIONS	GROSS BLOCK AS ON 31.03.2019 (3+4+5)	DEPRECIATION/ AMORTISATION		ADJUSTMENT ON ACCOUNT OF ASSETS SOLD/ TRANSFERRED	TOTAL DEPRECIATION AS ON 31.03.2019 (7+8+9)	NET BLOCK AS ON 31.03.2019 (6 - 10)
						AS ON 31.3.2018	FOR THE YEAR			
2	3	4	5	6	7	8	9	10	11	
KOCHI										
Furniture & Fixtures	13,04,905	36,285		13,41,190	7,63,090	68,055		8,31,145	5,10,045	
Office Equipment	2,25,808	3,06,813		5,32,621	1,63,067	46,158		2,09,225	3,23,396	
Fans & Air Coolers	52,510	2,380		54,890	36,621	2,425		39,046	15,844	
Air-Conditioner	83,200	-		83,200	41,525	4,085		45,610	37,590	
Survey Instruments	77,36,785	4,79,346		82,16,131	43,94,342	4,72,791		48,67,133	33,48,998	
Communication Equipment	10,86,953	3,91,484		14,78,437	7,36,472	1,32,365		8,68,837	6,09,600	
Generator	3,54,969			3,54,969	2,43,031	30,784		2,73,815	81,154	
Computer	22,10,627	65,842		22,76,469	14,89,118	2,35,672		17,24,790	5,51,679	
Survey Launch	54,64,584	1,60,000		56,24,584	36,67,251	2,51,301		39,18,552	17,06,032	
SPEED BOATS	11,20,418			11,20,418	9,55,494	54,451		10,09,945	1,10,473	
Land (Terminals)	20,18,82,009	1,03,94,621		21,22,76,630	-	-		-	21,22,76,630	
Land Widening	2,94,09,005	2,53,793	(1,24,93,307)	1,71,69,491	-	-		-	1,71,69,491	
Library Books	19,847			19,847	19,847	-		19,847	-	
Building	83,90,016			83,90,016	13,07,284	1,38,817		14,46,101	69,43,915	
Terminal & Building	34,65,52,315			34,65,52,315	12,21,40,909	88,96,675		13,10,37,584	21,55,14,731	
Dredger	18,55,25,953	11,57,667	(4,68,59,919)	13,98,23,701	7,07,76,940	42,20,399	(1,99,86,166)	5,50,11,173	8,48,12,528	
Night Navigation	4,06,83,773	61,45,521		4,68,29,294	2,34,08,369	35,38,176		2,69,46,545	1,98,82,749	
Foot Over Bridge Thottappally	21,88,615			21,88,615	10,84,736	54,743		11,39,479	10,49,136	
Fork Lifts	63,70,925			63,70,925	46,52,961	3,49,854		50,02,815	13,68,110	
Hydraulic Cranes	6,89,45,177			6,89,45,177	4,92,46,499	38,19,798		5,30,66,297	1,58,78,880	
Electrical Installations	12,66,828			12,66,828	1,44,748	1,20,349		2,65,097	10,01,731	
Temporary Terminal	11,96,370	39,825		12,36,195	11,96,370	39,825		12,36,195	-	
Computer Software	20,24,571	2,92,050		23,16,621	19,35,399	83,408		20,18,807	2,97,814	
TOTAL (F)	91,40,96,163	1,97,25,627	(5,93,53,226)	87,44,68,564	28,84,04,073	2,25,60,131	(1,99,86,166)	29,09,78,038	58,34,90,526	
Computer	4,75,291	1,85,180		6,60,471	4,54,240	13,977		4,68,217	1,92,254	
Furniture & Fixtures	1,54,339			1,54,339	1,46,622	-		1,46,622	7,717	
Office Equipment	1,35,464			1,35,464	77,260	13,663		90,923	44,541	
Fans & Air Coolers	12,155			12,155	11,547	-		11,547	608	
Library Books	51,784	7,000		58,784	51,784	7,000		58,784	-	
Electrical Installation	10,74,339			10,74,339	3,47,072	1,06,264		4,53,336	6,21,003	
ALLAHABAD										

INLAND WATERWAYS AUTHORITY OF INDIA



1	2	3	4	5	6	DEPRECIATION/ AMORTISATION		9	10	11	
						AS ON 31.3.2018	FOR THE YEAR				
VARANASI	Land	24,05,763			24,05,763	-			-	24,05,763	
	TERMINAL	58,82,942	-		58,82,942	1,11,776			15,32,322	43,50,620	
	Buoys		36,13,680		36,13,680		47,027		47,027	35,66,653	
	W.C. & Bathroom (Terminal)			6,34,118	6,34,118			21,684	21,684	6,12,434	
	Survey Instruments	22,84,447	1,56,220	-	-	24,40,667	22,32,420	9,668	-	22,42,088	1,98,579
	TOTAL (G)	1,24,76,524	39,62,080	6,34,118	6,34,118	1,70,72,722	47,41,491	3,09,375	21,684	50,72,550	1,20,00,172
	Furniture & Fixtures	1,76,607				1,76,607	1,35,706	3,261	-	1,38,967	37,640
	Computer	3,64,695	3,42,047			7,06,742	3,40,518	5,943	-	3,46,461	3,60,281
	Office Equipment	2,95,782	83,436			3,79,218	58,036	54,337		1,12,373	2,66,845
	Fans & Air Coolers	7,225				7,225	5,973	383		6,356	869
Vehicle	15,83,642	-			15,83,642	3,05,164	1,27,104	-	4,32,268	11,51,374	
Communication Equipment	-	-			-	-	-	-	-	-	
Library book	10,609	300			10,909	10,609	300		10,909	-	
DGPS Station	1,12,83,256	12,75,356			1,25,58,612	6,35,671	3,30,367		9,86,038	1,15,72,574	
Land -Terminal		9,54,41,788			9,54,41,788		-		-	9,54,41,788	
Tempery Structure		21,55,414			21,55,414		1,48,409		1,48,409	20,07,005	
Land -Fright Village		1,62,40,350			1,62,40,350		-		-	1,62,40,350	
Survey Instruments	29,71,849	88,534			30,60,383	18,82,495	3,72,009	-	22,54,504	8,05,879	
TOTAL (H)	1,66,93,665	11,56,27,225	(42,860)	(42,860)	13,23,20,890	33,74,172	10,62,113	(40,718)	44,36,285	12,78,84,605	
NINI	Furniture & Fixtures	50,31,121	-		49,88,261	39,09,014	1,63,529		40,31,825	9,56,436	
	Generator Set	6,57,371	-		6,57,371	5,54,374	70,128		6,24,502	32,869	
	Computer	14,77,002	4,08,000		-	18,85,002	14,03,153	1,29,200	-	15,32,353	3,52,649
	Office Equipment	13,71,778	26,131		-	13,97,909	11,82,730	37,261	(744)	12,19,247	1,78,662
	Air Conditioner	12,37,281	2,07,600		-	14,44,881	9,42,265	1,11,598	-	10,53,863	3,91,018
	Building/Workshop	11,37,39,075			-	11,37,39,075	1,65,89,978	17,78,863	-	1,83,68,841	9,53,70,234
	Hostel & kitchen	6,06,957			-	6,06,957	5,76,634	-	(24)	5,76,610	30,347
	Work SHOP EQUIPMENT	4,02,778			-	4,02,778	1,77,444	26,579		2,04,023	1,98,755
	Fire Mock up Equipments	52,37,144			-	52,37,144	47,79,840	1,95,448		49,75,288	2,61,856
	FRP Boat with OBM	5,28,962			-	5,28,962	2,02,547	30,120		2,32,667	2,96,295

1	PARTICULARS	GROSS BLOCK AS ON 31.03.2018	ADDITIONS DURING THE YEAR	ADJUSTMENT/ DEDUCTIONS	GROSS BLOCK AS ON 31.03.2019 (3+4+5)	DEPRECIATION/ AMORTISATION		ADJUSTMENT ON ACCOUNT OF ASSETS SOLD/ TRANSFERRED	TOTAL DEPRECIATION AS ON 31.03.2019 (7+8+9)	NET BLOCK AS ON 31.03.2019 (6 - 10)
						AS ON 31.3.2018	FOR THE YEAR			
2	3	4	5	6	7	8	9	10	11	
	Water Cooler & Refrigerator	4,92,743	49,799	-	5,42,542	3,48,272	17,470	-	3,65,742	1,76,800
	Temporary Structure	16,61,542			16,61,542	16,61,542			16,61,542	-
	Course Material & Equipments	5,29,999			5,29,999	5,29,999			5,29,999	-
	SIMULATOR	3,17,31,375		-	3,17,31,375	2,99,33,413	2,11,391	-	3,01,44,804	15,86,571
	Library book	15,99,923	65,236		16,65,159	15,99,923	65,236		16,65,159	-
	Computer Software	60,02,388	-		60,02,388	47,95,882	9,06,387		57,02,269	3,00,119
	Electric Installation	4,94,676	-		4,94,676	1,88,068	50,033		2,38,101	2,56,575
	Fans & Air Coolers	90,545	-		90,545	31,353	8,928		40,281	50,264
	Survey Instruments	52,56,165	-		52,56,165	49,90,607			49,90,607	2,65,558
	Vessel (Buxar, Ghoghra)	65,000	-		65,000					65,000
	LAND	15,24,50,100	-	1,34,31,442	16,58,81,542					16,58,81,542
	TOTAL (I)	33,06,63,925	7,56,766	1,33,88,582	34,48,09,273	7,43,97,038	38,02,171	(41,486)	7,81,57,723	26,66,51,550
JMVP	Furniture & Fixtures	61,66,351	18,495		61,84,846	17,42,711	5,86,907		23,29,618	38,55,228
	Furniture & Fixture-PIU-Patna	2,04,970	-	74,800	2,79,770	13,440	19,461	14,231	47,132	2,32,638
	Computer	28,11,372	-	(75,867)	27,35,505	20,50,235	2,38,862	(72,073)	22,17,024	5,18,481
	computer-PIU Patna	99,700	81,675	99,500	2,80,875	9,306	31,853	70,346	1,11,505	1,69,370
	Office Equipment	20,21,708	1,07,446		21,29,154	10,52,639	3,95,711		14,48,350	6,80,804
	Library book	14,000	-		14,000	14,000			14,000	-
	Air Conditioner- PIU-Patna	4,08,000	-		4,08,000	38,760			77,485	3,30,515
	Computer Software	3,21,311	1,64,550		4,85,861	2,41,995	1,05,778		3,47,773	1,38,088
	Temporary Structure	90,37,112			90,37,112	90,37,112			90,37,112	-
	Electric Installation	25,49,577			25,49,577	7,26,629	2,42,210		9,68,839	15,80,738
	Kitchen Equipment	8,720			8,720	3,250	1,657		4,907	3,813
	WaterCooler & Refrigerator	27,800	-		27,800	3,135	5,277		8,412	19,388
	Fan & Air Coolers	11,225	4,300		15,525	4,166	2,799		6,965	8,560
	Furniture & Fixture-Kolkata	2,82,823	38,661		3,21,484	60,465	29,239		89,704	2,31,780
	Lease Land -Kolkata	40,18,88,022	-	-	40,18,88,022	-	1,45,74,399	-	1,45,74,399	38,73,13,623
	Land -Farakka-Kolkata	2,35,80,160			2,35,80,160	-			-	2,35,80,160
	Computer-Kolkata	2,11,004	2,00,338		4,11,342	55,484	72,772		1,28,256	2,83,086

INLAND WATERWAYS AUTHORITY OF INDIA



1	2	3	4	5	6	DEPRECIATION/ AMORTISATION		9	10	11
						AS ON 31.3.2018	FOR THE YEAR			
	Communication Equipment	8,61,858			8,61,858		92,868		92,868	7,68,990
	Vessel (S.L.Ganga-kolkata)	6,33,43,800			6,33,43,800		39,50,483		39,50,483	5,93,93,317
	Vessel (S.L. Jainvi-Patna)	6,33,43,800			6,33,43,800		38,11,185		38,11,185	5,95,32,615
	LAND - Varansi (Ramnagar)	1,60,68,748			1,60,68,748					1,60,68,748
	LAND-Varanasi	97,65,110			97,65,110					97,65,110
	LAND -Chazipur	14,76,70,289			14,76,70,289					14,76,70,289
	LAND-Sahibganj	1,17,19,35,919			1,17,19,35,919					1,17,19,35,919
NW-4	TOTAL (I)	2,73,55,41,174	15,39,98,781	98,433	2,88,96,38,388	1,50,53,327	2,42,00,186	12,504	3,92,66,017	2,85,03,72,371
	Computer	3,87,133	1,40,030		5,35,163	2,05,510	67,551		2,73,061	2,62,102
	Furniture & Fixtures	5,70,753	1,74,354		7,45,107	1,83,224	54,446		2,37,670	5,07,437
	Library Books		4,910		4,910		4,910		4,910	
	Office Equipment		1,88,850		1,88,850				688	1,88,162
	Water Cooler		7,999		7,999				4	7,995
	Speed Boat (PB, Falcon-I)			11,20,418	11,20,418				81,877	10,47,742
	Air Conditioner	1,16,000	97,000		2,13,000	30,322	11,096		41,418	1,71,582
NW-5	TOTAL (K)	10,73,886	6,21,143	11,20,418	28,15,447	4,19,056	2,20,572	9,65,865	16,05,493	12,09,954
	Computer	7,70,660			7,70,660	69,698	69,698		1,39,396	6,31,264
	Furniture & Fixtures	3,41,042			3,41,042	34,004	34,004		68,008	2,73,034
	Water Cooler & Refrigerator	34,000			34,000	25,840	8,160		34,000	
	Office Equipment	81,345			81,345	8,454	8,454		16,908	64,437
	Fan & Air Coolers	10,100			10,100	373	373		746	9,354
	Barges & Pontoons		1,78,30,905		1,78,30,905		5,63,098		5,63,098	1,72,67,807
	Air Conditioner	1,40,500	29,840		1,70,340	12,478	12,883		25,361	1,44,979
	TOTAL (L)	13,77,647	1,78,60,745	-	1,92,38,392	1,50,847	6,96,670	-	8,47,517	1,83,90,875
	GRAND TOTAL (A+B+C+D+E+F+G+H+I+J+K+L)	11,36,23,79,702	2,37,71,90,413	(1,66,69,365)	13,72,29,00,750	2,60,86,71,823	28,48,50,125	(20,73,978)	2,89,14,47,970	10,83,14,52,780
	PREVIOUS YEAR	10,48,28,76,091	90,16,56,140	(2,21,52,532)	11,36,23,79,702	2,38,00,73,050	22,94,45,434	(8,46,661)	2,60,86,71,823	8,75,37,07,879

For and on behalf of the Authority


(Dr. Amita Prasad)
 Chairperson


(Pravir Pandey)
 Vice-Chairman


(Alok Ranjan)
 Member (Finance)


(A. K. Gupta)
 Director (F&A)

INLAND WATERWAYS AUTHORITY OF INDIA
SCHEDULES FORMING PART OF THE BALANCE SHEET
AS AT 31st MARCH 2019

(Amount in Rs.)

	PARTICULARS	CURRENT YEAR	PREVIOUS YEAR
SCHEDULE - 3 "CAPITAL"			
1	CAPITAL U/S 11 (1) (c) OF IWAI ACT	94,37,244.00	94,37,244.00
2	IWAI FUND U/S 19 OF IWAI ACT		
	OPENING BALANCE OF FUND	9,98,60,30,748.00	9,03,49,56,204.00
	ADD:		
	CAPITAL GRANTS RECEIVED FROM GOI	7,03,29,00,000.00	3,15,98,42,000.00
	INTERNAL RECEIPTS (AS PER LIST)	37,12,87,654.71	24,72,50,020.68
	OTHER GRANTS RECEIVED (NATURE TO BE SPECIFIED)		
	OTHERS (NATURE TO BE SPECIFIED)		
	LESS:		
	AMOUNT PAYABLE TO GOI	(37,12,87,654.71)	(24,72,50,020.68)
	UNSPENT GRANT PAYABLE TO GOI	(1,39,60,000.00)	
	TRANSFERRED TO INCOME & EXPENDITURE ACCOUNTS	(27,00,04,071.00)	(22,94,45,434.00)
	BOOK VALUE OF FIXED ASSETS SOLD/WRITTEN OFF DURING THE YEAR	3,71,058.00	(90,156.00)
	OTHERS (NATURE TO BE SPECIFIED)		
	- ADJUSTMENT OF DEPRECIATION		-
	ADD/LESS: SURPLUS/DEFICIT TRANSFERRED FROM INCOME & EXPENDITURE ACCOUNTS	(98,36,42,621.00)	(1,97,92,31,866.00)
	CLOSING BALANCE OF IWAI FUND	15,75,16,95,114.00	9,98,60,30,748.00
	TOTAL		
SCHEDULE - 4 "RESERVES & SURPLUS"			
1	CAPITAL RESERVES		
	OPENING BALANCE		9,31,900.00
	ADDITION DURING THE YEAR	-	-
	REDUCTION DURING THE YEAR		(9,31,900.00)
	CLOSING BALANCE	-	-
2	GENERAL RESERVE		
	OPENING BALANCE	-	-
	ADDITION DURING THE YEAR	-	-
	REDUCTION DURING THE YEAR	-	-
	CLOSING BALANCE	-	-
3	ANY OTHER RESERVES/FUND (NATURE TO BE SPECIFIED)		
	OPENING BALANCE	-	-
	ADDITION DURING THE YEAR	-	-
	REDUCTION DURING THE YEAR	-	-
	CLOSING BALANCE	-	-
	TOTAL (1+2+3)	-	-

	PARTICULARS	CURRENT YEAR	PREVIOUS YEAR
SCHEDULE - 5 "EARMARKED/ENDOWMENT FUNDS"			
	OPENING BALANCE	-	-
	ADDITION DURING THE YEAR FROM DONATIONS/GRANTS	-	-
	INCOME FROM INVESTMENT MADE ON ACCOUNT OF FUNDS	-	-
	OTHER ADDITIONS (NATURE TO BE SPECIFIED)	-	-
	REDUCTION DURING THE YEAR	-	-
	CLOSING BALANCE	-	-
SCHEDULE - 6 "LONG TERM BORROWINGS"			
A	SECURED		
1	LOANS FROM GOVT. OF INDIA		
	OPENING BALANCE	-	-
	ADDITION, IF ANY, DURING THE YEAR	-	-
	REPAYMENTS MADE DURING THE YEAR	-	-
	INTEREST ACCRUED AND DUE	-	-
	CLOSING BALANCE	-	-
2	LOANS FROM FINANCIAL INSTITUTIONS		
	(A) TERM LOANS		
	OPENING BALANCE	-	-
	ADDITION, IF ANY, DURING THE YEAR	-	-
	REPAYMENTS MADE DURING THE YEAR	-	-
	INTEREST ACCRUED AND DUE	-	-
	CLOSING BALANCE	-	-
	(B) OTHER LOANS (SPECIFY)		
	OPENING BALANCE	-	-
	ADDITION, IF ANY, DURING THE YEAR	-	-
	REPAYMENTS MADE DURING THE YEAR	-	-
	INTEREST ACCRUED AND DUE	-	-
	CLOSING BALANCE	-	-
3	LOANS FROM BANKS		
	(A) TERM LOANS		
	OPENING BALANCE	-	-
	ADDITION, IF ANY, DURING THE YEAR	-	-
	REPAYMENTS MADE DURING THE YEAR	-	-
	INTEREST ACCRUED AND DUE	-	-
	CLOSING BALANCE	-	-
	(B) OTHER LOANS (SPECIFY)		
	OPENING BALANCE	-	-
	ADDITION, IF ANY, DURING THE YEAR	-	-
	REPAYMENTS MADE DURING THE YEAR	-	-
	INTEREST ACCRUED AND DUE	-	-
	CLOSING BALANCE	-	-

	PARTICULARS	CURRENT YEAR	PREVIOUS YEAR
4	LOANS FROM OTHER INSTITUTIONS & AGENCIES		
	OPENING BALANCE	-	-
	ADDITION, IF ANY, DURING THE YEAR	-	-
	REPAYMENTS MADE DURING THE YEAR	-	-
	INTEREST ACCRUED AND DUE	-	-
	CLOSING BALANCE	-	-
5	BONDS/DEBENTURES		
	OPENING BALANCE	-	-
	ADDITION, IF ANY, DURING THE YEAR	-	-
	REPAYMENTS MADE DURING THE YEAR	-	-
	INTEREST ACCRUED AND DUE	-	-
	CLOSING BALANCE	-	-
6	OTHER LOANS (NATURE TO BE SPECIFIED)		
	OPENING BALANCE	-	-
	ADDITION, IF ANY, DURING THE YEAR	-	-
	REPAYMENTS MADE DURING THE YEAR	-	-
	INTEREST ACCRUED AND DUE	-	-
	CLOSING BALANCE	-	-
B	UNSECURED		
1	LOANS FROM GOVT. OF INDIA		
	OPENING BALANCE	-	-
	ADDITION, IF ANY, DURING THE YEAR	-	-
	REPAYMENTS MADE DURING THE YEAR	-	-
	INTEREST ACCRUED AND DUE	-	-
	CLOSING BALANCE	-	-
2	LOANS FROM FINANCIAL INSTITUTIONS		
	(A) TERM LOANS		
	OPENING BALANCE	-	-
	ADDITION, IF ANY, DURING THE YEAR	-	-
	REPAYMENTS MADE DURING THE YEAR	-	-
	INTEREST ACCRUED AND DUE	-	-
	CLOSING BALANCE	-	-
	(B) OTHER LOANS (SPECIFY)		
	OPENING BALANCE	-	-
	ADDITION, IF ANY, DURING THE YEAR	-	-
	REPAYMENTS MADE DURING THE YEAR	-	-
	INTEREST ACCRUED AND DUE	-	-
	CLOSING BALANCE	-	-
3	LOANS FROM BANKS		
	(A) TERM LOANS		
	OPENING BALANCE	-	-
	ADDITION, IF ANY, DURING THE YEAR	-	-

	PARTICULARS	CURRENT YEAR	PREVIOUS YEAR
	REPAYMENTS MADE DURING THE YEAR	-	-
	INTEREST ACCRUED AND DUE	-	-
	CLOSING BALANCE	-	-
	(B) OTHER LOANS (SPECIFY)		
	OPENING BALANCE	-	-
	ADDITION, IF ANY, DURING THE YEAR	-	-
	REPAYMENTS MADE DURING THE YEAR	-	-
	INTEREST ACCRUED AND DUE	-	-
	CLOSING BALANCE	-	-
4	LOANS FROM OTHER INSTITUTIONS & AGENCIES		
	OPENING BALANCE	-	-
	ADDITION, IF ANY, DURING THE YEAR	-	-
	REPAYMENTS MADE DURING THE YEAR	-	-
	INTEREST ACCRUED AND DUE	-	-
	CLOSING BALANCE	-	-
5	BONDS/DEBENTURES		
	OPENING BALANCE	10,00,00,00,000.00	3,40,00,00,000.00
	ADDITION, IF ANY, DURING THE YEAR		6,60,00,00,000.00
	REPAYMENTS MADE DURING THE YEAR	-	-
	INTEREST ACCRUED AND DUE	-	-
	CLOSING BALANCE	10,00,00,00,000.00	10,00,00,00,000.00
6	OTHER LOANS (NATURE TO BE SPECIFIED)		
	OPENING BALANCE	-	-
	ADDITION, IF ANY, DURING THE YEAR	-	-
	REPAYMENTS MADE DURING THE YEAR	-	-
	INTEREST ACCRUED AND DUE	-	-
	CLOSING BALANCE	-	-
	TOTAL (SCHEDULE - 6)	10,00,00,00,000.00	10,00,00,00,000.00
SCHEDULE - 7 "OTHER NON CURRENT LIABILITIES"			
1	SECURITY DEPOSIT RECEIVED	26,90,48,701.00	24,66,52,223.00
2	EARNEST MONEY RECEIVED	30,66,354.00	
3	MARGIN MONEY RECEIVED		
4	TAXES WITHHELD	28,60,215.00	
5	LIABILITIES FOR EXPENSES	59,56,308.00	
6	DUTIES AND TAXES PAYABLE	19,18,238.00	
7	INTERNAL RECEIPT PAYABLE TO GOI	-	
8	ADVANCE RECEIVED FROM CUSTOMERS	-	
9	RETENTION MONEY	-	
10	OTHERS		
	- LIABILITIES FOR LEAVE ENCASHMENT	10,39,35,203.00	8,84,20,398.00
	- CLAIM PAYABLE	1,84,88,206.00	65,89,721.00
	TOTAL	40,52,73,225.00	34,16,62,342.00

	PARTICULARS	CURRENT YEAR	PREVIOUS YEAR
SCHEDULE - 8 "LONG TERM PROVISIONS"			
1	PROVISION FOR GRATUITY	-	-
2	PROVISION FOR LEAVE SALARY & PENSION CONTRIBUTION (FOR EMPLOYEES ON DEPUTATION)	-	-
3	PROVISION FOR PENSION CONTRIBUTION	-	-
4	PROVISION FOR LEAVE ENCASHMENT	-	-
5	PROVISION FOR NEW PENSION SCHEME	-	-
6	PROVISION FOR BONUS	-	-
7	PROVISION FOR DUTIES AND TAXES	-	-
8	PROVISION FOR INTEREST ON BONDS/DEBENTURES (i.e ACCRUED BUT NOT DUE)	-	-
9	PROVISIONS FOR BAD AND DOUBTFUL DEBTS	-	-
10	OTHER PROVISIONS	1,78,47,070.00	-
	TOTAL	1,78,47,070.00	-
SCHEDULE - 9 "SHORT- TERM BORROWINGS"			
A	SECURED		
1	LOANS FROM GOVT. OF INDIA		
	OPENING BALANCE	-	-
	ADDITION, IF ANY, DURING THE YEAR	-	-
	REPAYMENTS MADE DURING THE YEAR	-	-
	INTEREST ACCRUED AND DUE	-	-
	CLOSING BALANCE	-	-
2	LOANS FROM FINANCIAL INSTITUTIONS		
	(A) TERM LOANS		
	OPENING BALANCE	-	-
	ADDITION, IF ANY, DURING THE YEAR	-	-
	REPAYMENTS MADE DURING THE YEAR	-	-
	INTEREST ACCRUED AND DUE	-	-
	CLOSING BALANCE	-	-
	(B) OTHER LOANS (SPECIFY)		
	OPENING BALANCE	-	-
	ADDITION, IF ANY, DURING THE YEAR	-	-
	REPAYMENTS MADE DURING THE YEAR	-	-
	INTEREST ACCRUED AND DUE	-	-
	CLOSING BALANCE	-	-
3	LOANS FROM BANKS		
	(A) TERM LOANS		
	OPENING BALANCE	-	-
	ADDITION, IF ANY, DURING THE YEAR	-	-
	REPAYMENTS MADE DURING THE YEAR	-	-
	INTEREST ACCRUED AND DUE	-	-

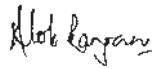
	PARTICULARS	CURRENT YEAR	PREVIOUS YEAR
	CLOSING BALANCE	-	-
	(B) OTHER LOANS (SPECIFY)		
	OPENING BALANCE	-	-
	ADDITION, IF ANY, DURING THE YEAR	-	-
	REPAYMENTS MADE DURING THE YEAR	-	-
	INTEREST ACCRUED AND DUE	-	-
	CLOSING BALANCE	-	-
4	LOANS FROM OTHER INSTITUTIONS & AGENCIES		
	OPENING BALANCE	-	-
	ADDITION, IF ANY, DURING THE YEAR	-	-
	REPAYMENTS MADE DURING THE YEAR	-	-
	INTEREST ACCRUED AND DUE	-	-
	CLOSING BALANCE	-	-
5	BONDS/DEBENTURES		
	OPENING BALANCE	-	-
	ADDITION, IF ANY, DURING THE YEAR	-	-
	REPAYMENTS MADE DURING THE YEAR	-	-
	INTEREST ACCRUED AND DUE	-	-
	CLOSING BALANCE	-	-
6	OTHER LOANS (NATURE TO BE SPECIFIED)		
	OPENING BALANCE	-	-
	ADDITION, IF ANY, DURING THE YEAR	-	-
	REPAYMENTS MADE DURING THE YEAR	-	-
	INTEREST ACCRUED AND DUE	-	-
	CLOSING BALANCE	-	-
B	UNSECURED		
1	LOANS FROM GOVT. OF INDIA		
	OPENING BALANCE	-	-
	ADDITION, IF ANY, DURING THE YEAR	-	-
	REPAYMENTS MADE DURING THE YEAR	-	-
	INTEREST ACCRUED AND DUE	-	-
	CLOSING BALANCE	-	-
2	LOANS FROM FINANCIAL INSTITUTIONS		
	(A) TERM LOANS		
	OPENING BALANCE	-	-
	ADDITION, IF ANY, DURING THE YEAR	-	-
	REPAYMENTS MADE DURING THE YEAR	-	-
	INTEREST ACCRUED AND DUE	-	-
	CLOSING BALANCE	-	-
	(B) OTHER LOANS (SPECIFY)		
	OPENING BALANCE	-	-

	PARTICULARS	CURRENT YEAR	PREVIOUS YEAR
	ADDITION, IF ANY, DURING THE YEAR	-	-
	REPAYMENTS MADE DURING THE YEAR	-	-
	INTEREST ACCRUED AND DUE	-	-
	CLOSING BALANCE	-	-
3	LOANS FROM BANKS		
	(A) TERM LOANS		
	OPENING BALANCE	-	-
	ADDITION, IF ANY, DURING THE YEAR	-	-
	REPAYMENTS MADE DURING THE YEAR	-	-
	INTEREST ACCRUED AND DUE	-	-
	CLOSING BALANCE	-	-
	(B) OTHER LOANS (SPECIFY)		
	OPENING BALANCE	-	-
	ADDITION, IF ANY, DURING THE YEAR	-	-
	REPAYMENTS MADE DURING THE YEAR	-	-
	INTEREST ACCRUED AND DUE	-	-
	CLOSING BALANCE	-	-
4	LOANS FROM OTHER INSTITUTIONS & AGENCIES		
	OPENING BALANCE	-	-
	ADDITION, IF ANY, DURING THE YEAR	-	-
	REPAYMENTS MADE DURING THE YEAR	-	-
	INTEREST ACCRUED AND DUE	-	-
	CLOSING BALANCE	-	-
5	BONDS/DEBENTURES		
	OPENING BALANCE	24,96,15,830.00	-
	ADDITION, IF ANY, DURING THE YEAR	-	-
	REPAYMENTS MADE DURING THE YEAR	(24,96,15,830.00)	-
	INTEREST ACCRUED AND DUE	25,09,66,575.00	24,96,15,830.00
	CLOSING BALANCE	25,09,66,575.00	24,96,15,830.00
6	OTHER LOANS (NATURE TO BE SPECIFIED)		
	OPENING BALANCE	-	-
	ADDITION, IF ANY, DURING THE YEAR	-	-
	REPAYMENTS MADE DURING THE YEAR	-	-
	INTEREST ACCRUED AND DUE	-	-
	CLOSING BALANCE	-	-
	TOTAL (SCHEDULE - 9)	25,09,66,575.00	24,96,15,830.00
SCHEDULE - 10 "SUNDRY CREDITORS"			
1	SUPPLIERS & CONTRACTORS	7,33,82,231.00	49,87,42,626.00
2	PROFESSIONALS	3,11,71,897.00	34,80,749.00
3	OTHERS	77,01,109.00	1,49,61,221.00
	TOTAL	11,22,55,237.00	51,71,84,596.00

	PARTICULARS	CURRENT YEAR	PREVIOUS YEAR
SCHEDULE - 11 "OTHER CURRENT LIABILITIES"			
1	SECURITY DEPOSIT RECEIVED	19,54,15,224.00	17,68,40,903.00
2	EARNEST MONEY RECEIVED	2,45,00,240.00	1,38,73,732.00
3	MARGIN MONEY RECEIVED	-	-
4	TAXES WITHHELD	24,10,75,860.00	24,37,86,298.00
5	LIABILITIES FOR EXPENSES	81,52,62,391.00	21,84,85,348.00
6	DUTIES AND TAXES PAYABLE	2,93,51,362.00	1,78,77,530.00
7	INTERNAL RECEIPT PAYABLE TO GOI	37,12,87,655.00	24,72,50,021.00
8	UNSPENT GRANT PAYABLE TO GOI	1,39,60,000.00	
9	ADVANCE RECEIVED FROM CUSTOMERS	1,19,85,589.00	1,71,10,835.00
10	RETENTION MONEY	-	-
11	OTHERS (NATURE TO BE SPECIFIED)	2,73,82,676.00	2,78,29,920.00
	TOTAL	1,73,02,20,997.00	96,30,54,587.00
SCHEDULE - 12 "PROVISIONS"			
1	PROVISION FOR GRATUITY	-	4,40,81,344.00
2	PROVISION FOR LEAVE SALARY & PENSION CONTRIBUTION (FOR EMPLOYEES ON DEPUTATION)	36,49,332.00	31,15,279.00
3	PROVISION FOR PENSION CONTRIBUTION	-	23,54,02,552.00
4	PROVISION FOR LEAVE ENCASHMENT	-	1,15,46,957.00
5	PROVISION FOR NEW PENSION SCHEME	-	-
6	PROVISION FOR BONUS	15,53,725.00	20,04,503.00
7	PROVISION FOR DUTIES AND TAXES	-	
8	PROVISION FOR INTEREST ON BONDS/DEBENTURES (i.e ACCRUED BUT NOT DUE)	-	
9	PROVISION FOR BAD & DOUBTFULL DEBTS	-	
10	OTHER PROVISIONS (MEDICAL)	12,81,088.00	1,40,50,699.00
	TOTAL	64,84,145.00	31,02,01,334.00

For and on behalf of the Authority


(A. K. Gupta)
Director (F&A)


(Alok Ranjan)
Member (Finance)


(Pravir Pandey)
Vice-Chairman


(Dr. Amita Prasad)
Chairperson

INLAND WATERWAYS AUTHORITY OF INDIA
SCHEDULE OF FIXED ASSETS AS ON 31.03.2019

SCHEDULE - 13

(Amount in Rs.)

Particulars	Gross Block			Depreciation/ Amortisation			Net Block		
	As on 01.04.2018	Additions	Deductions	As on 01.04.2018	During the Year	Additions/ Deductions	As on 31.03.2019	As on 31.03.2018	
1	2	3	4	5 = (2+3+4)	6	7	8	9 = (6+7+8)	10 = (2 - 6)
(A) TANGIBLE ASSETS									
Land & Building									
Land									
(a) Freehold									
- Land (Widening)	2,94,09,005	2,53,793	(1,24,93,307)	1,71,69,491	-	-	-	1,71,69,491	2,94,09,005
- Land Terminals	2,54,88,53,527	1,28,16,75,267		3,83,05,28,794	-	-	-	3,83,05,28,794	2,54,88,53,527
- Land - Freight Village		1,62,40,350		1,62,40,350	-	-	-	1,62,40,350	
- Land (NINI)	15,24,50,100	-	-	15,24,50,100	-	-	-	15,24,50,100	15,24,50,100
(b) Leasehold									
- Land (Widening)	-	-	-	-	-	-	-	-	-
- Land Terminals	40,18,88,022	-	-	40,18,88,022	-	1,45,74,399	-	38,73,13,623	40,18,88,022
- Land (Noida Office)	1,79,51,542	-	-	1,79,51,542	-	2,71,655	-	1,76,79,887	1,79,51,542
Building									
(a) on Freehold Land									
- Building	8,58,91,074	9,94,949	-	8,68,86,023	39,37,827	15,10,638	-	54,48,465	8,14,37,558
- Car Parking	-	-	-	-	-	-	-	-	-
- Workshop	11,37,39,075	-	-	11,37,39,075	1,65,89,978	17,78,863	-	1,83,68,841	9,71,49,097
- Temporary Structure	1,06,98,654	-	-	1,06,98,654	1,06,98,654	-	-	1,06,98,654	-
- Civil Structure (River Information System)	7,49,51,957	-	-	7,49,51,957	24,88,434	-	-	24,88,434	7,24,63,523
- Civil Structure (Digital Generator Protection)	-	-	-	-	-	-	-	-	-
- Others (to be Specified)	-	-	-	-	-	-	-	-	-
(b) on Leasehold Land									
- Building	11,01,97,880	95,56,634	-	11,97,54,514	3,27,25,159	30,73,832	-	3,57,98,991	8,39,55,523
- Car Parking	2,33,92,491	-	-	2,33,92,491	32,45,158	3,38,921	-	35,84,079	1,98,08,412
- Workshop	-	-	-	-	-	-	-	-	-
- Temporary Structure	-	-	-	-	-	-	-	-	-
- Civil Structure (River Information System)	1,98,69,240	-	-	1,98,69,240	7,03,019	3,14,973	-	10,17,992	1,88,51,248

Particulars	Gross Block				Depreciation/ Amortisation				Net Block	
	As on 01.04.2018	Additions	Deductions/ Amortisation	As on 31.03.2019	As on 01.04.2018	During the Year	Additions/ Deductions	As on 31.03.2019	As on 31.03.2019	As on 31.03.2018
	2	3	4	5 = (2+3+4)	6	7	8	9=(6+7+8)	10 = (2 - 6)	
1										
- Civil Structure (Digital Generator Protection)	-	-	-	-	-	-	-	-	-	-
- Others (Temporary Structure-Noida)	7,10,114	-	-	7,10,114	7,10,114	-	-	7,10,114	-	-
(c) Residential Quarters										
Noida	3,08,57,003	-	-	3,08,57,003	79,32,696	4,74,684	-	84,07,380	2,24,49,623	2,29,24,307
TOTAL (I)	3,62,08,59,684	1,30,87,20,993	(1,24,93,307)	4,91,70,87,370	7,90,31,039	2,23,37,965	-	10,13,69,004	4,81,57,18,366	3,54,18,28,645
Terminals										
- Civil Structures	2,81,63,48,396	52,54,45,631	(13,21,500)	3,34,04,72,527	69,15,61,448	8,55,54,697	(2,00,901)	77,69,15,244	2,56,35,57,283	2,12,47,86,948
- Others (Temporary Terminals)	11,96,370	39,825	6,34,118	18,70,313	11,96,370	62,193		12,58,563	6,11,750	-
TOTAL (II)	2,81,75,44,766	52,54,85,456	(6,87,382)	3,34,23,42,840	69,27,57,818	8,56,16,890	(2,00,901)	77,81,73,807	2,56,41,69,033	2,12,47,86,948
Bridges, culverts, bunkers, etc.										
- Foot Over Bridge Thottappally	21,88,615	-	-	21,88,615	10,84,736	54,743	-	11,39,479	10,49,136	11,03,879
- Others (to be Specified)	-	-	-	-	-	-	-	-	-	-
TOTAL (III)	21,88,615	-	-	21,88,615	10,84,736	54,743	-	11,39,479	10,49,136	11,03,879
Plant and Machinery										
- Passenger Lifts	46,12,400	-	-	46,12,400	6,39,862	66,827	-	7,06,689	39,05,711	39,72,538
- Fork Lifts	63,70,925	-	-	63,70,925	46,52,961	3,49,854	-	50,02,815	13,68,110	17,17,964
- Air Conditioners	2,59,21,149	5,84,302	(24,400)	2,64,81,051	1,10,94,382	23,11,695	(2,023)	1,34,04,054	1,30,76,997	1,48,26,767
- Night Navigation Equipments	13,18,43,814	1,97,05,887	(11,35,355)	15,04,14,346	6,85,55,607	76,15,159	(5,82,765)	7,55,88,001	7,48,26,345	6,32,88,207
- River Information System Station	14,98,56,926	2,71,97,609	-	17,70,54,535	2,42,79,398	1,49,82,420	-	3,92,61,818	13,77,92,717	12,55,77,528
- Digital Generator Protection Station	7,60,64,424	12,75,356	-	7,73,39,780	2,62,31,057	43,45,590	-	3,05,76,647	4,67,63,133	4,98,33,367
- Hydraulic Cranes	16,02,41,797	-	-	16,02,41,797	10,99,16,788	38,19,798	-	11,37,38,566	4,65,03,211	5,03,23,009
- Generator Set	93,64,904	-	-	93,64,904	40,18,206	5,44,369	-	45,62,575	48,02,329	53,46,698
- Workshop Equipments	4,02,778	-	-	4,02,778	1,77,444	26,579	-	2,04,023	1,98,755	2,25,334
- Fire Mock up Equipments	52,37,144	-	-	52,37,144	47,79,840	1,95,448	-	49,75,288	2,61,856	4,57,304
- Survey Equipments/Instruments	10,23,58,502	9,68,158	-	10,33,26,660	6,44,40,989	47,61,852	-	6,92,02,841	3,41,23,819	3,79,17,513
- Others (to be specified)	-	-	-	-	-	-	-	-	-	-
-Kitchen Equipment	8,720	-	-	8,720	3,250	1,657	-	4,907	3,813	5,470
- Sewerage Treatment Plant	1,02,88,000	6,00,000	-	1,08,88,000	10,54,511	6,63,567	-	17,18,078	91,69,922	92,33,489
TOTAL (IV)	68,25,71,483	5,03,31,312	(11,59,755)	73,17,43,040	31,98,46,295	3,96,84,815	(5,84,768)	35,89,46,322	37,27,96,718	36,27,25,188

Particulars	Gross Block				Depreciation/ Amortisation				Net Block	
	As on 01.04.2018	Additions	Deductions/ Amortisation	As on 31.03.2019	As on 01.04.2018	During the Year	Additions/ Deductions	As on 31.03.2019	As on 31.03.2019	As on 31.03.2018
1	2	3	4	5 = (2+3+4)	6	7	8	9=(6+7+8)	10 = (2 - 6)	
Furniture and fittings										
- Hostel & kitchen	6,06,957	-	-	6,06,957	5,76,634	-	(24)	5,76,610	30,347	30,323
- Furniture & Fixtures	2,70,42,565	7,92,019	-	2,78,34,584	1,43,93,069	17,38,676	-	1,61,31,745	1,17,02,839	1,26,49,496
- Others (to be Specified)	-	-	-	-	-	-	-	-	-	-
TOTAL (V)	2,76,49,522	7,92,019	-	2,84,41,541	1,49,69,703	17,38,676	(24)	1,67,08,355	1,17,33,186	1,26,79,819
Motor Vehicles										
- Motor Vehicles	1,06,11,656	-	-	1,06,11,656	31,49,140	9,34,060	(53,071)	40,30,129	65,81,527	74,62,516
- Cycles	35,067	-	-	35,067	31,343	799	-	32,142	2,925	3,724
- Others (to be Specified)	-	-	-	-	-	-	-	-	-	-
TOTAL (VI)	1,06,46,723	-	-	1,06,46,723	31,80,483	9,34,859	(53,071)	40,62,271	65,84,452	74,66,240
Ships and Vessels										
- Vessels Ordinary	1,05,62,84,344	45,22,35,368	(15,43,679)	1,50,69,76,033	22,92,82,739	4,42,34,672	(6,11,050)	27,29,06,361	1,23,40,69,672	82,70,01,605
- Speed Boats	1,22,86,496	-	-	1,22,86,496	93,87,515	4,15,493	-	98,03,008	24,83,488	28,98,981
- Vessels Dredging Unit	2,65,47,69,024	11,57,667	(1,55,581)	2,65,57,71,110	1,02,78,69,177	6,05,65,135	(43,012)	1,08,83,91,300	1,56,73,79,810	1,62,68,99,847
- Barges and pontoons	33,90,35,298	2,22,27,801	(5,61,255)	36,07,01,844	13,03,07,187	1,81,83,040	(5,05,129)	14,79,85,098	21,27,16,746	20,87,28,111
- Others (to be specified)	-	-	-	-	-	-	-	-	-	-
TOTAL (VII)	4,06,23,75,162	47,56,20,836	(22,60,515)	4,53,57,35,483	1,99,69,46,618	12,33,96,340	(11,59,191)	1,51,90,85,787	3,01,66,49,716	2,66,55,28,544
Office equipments										
- Water Coolers & Refrigerators	8,08,244	57,798	-	8,66,042	5,95,783	38,418	-	6,34,201	2,31,841	2,12,461
- Fans & Air Coolers	15,38,845	6,680	-	15,45,525	13,11,338	27,991	-	13,39,329	2,06,196	2,27,507
- Others (Printer/fax/Copier,etc.)	1,82,40,103	10,20,031	7,461	1,92,67,595	91,88,981	24,36,946	(3,930)	1,16,21,997	76,45,598	90,51,122
TOTAL (VIII)	2,05,87,192	10,84,509	7,461	2,16,79,162	1,10,96,102	25,03,355	(3,930)	1,35,95,527	80,83,635	94,91,090
Computers and data processing units										
- Computers	4,56,71,660	73,09,998	(75,867)	5,29,05,791	3,50,26,636	41,86,318	(72,073)	3,91,40,881	1,37,64,910	1,06,45,024
- Communication Equipments	61,14,294	48,56,246	-	1,09,70,540	46,32,962	8,75,296	-	55,08,258	54,62,282	14,81,332
- Simulators	3,17,31,375	-	-	3,17,31,375	2,99,33,413	2,11,391	-	3,01,44,804	15,86,571	17,97,962
- Others (to be Specified)	-	-	-	-	-	-	-	-	-	-
TOTAL (IX)	8,35,17,329	1,21,66,244	(75,867)	9,56,07,706	6,95,93,011	52,73,005	(72,073)	7,47,93,943	2,08,13,763	1,39,24,318

INLAND WATERWAYS AUTHORITY OF INDIA



Particulars	Gross Block			Depreciation/ Amortisation				Net Block		
	As on 01.04.2018	Additions	Deductions/ Amortisation	As on 31.03.2019	As on 01.04.2018	During the Year	Additions/ Deductions	As on 31.03.2019	As on 31.03.2018	
1	2	3	4	5 = (2+3+4)	6	7	8	9=(6+7+8)	10 = (2 - 6)	
Electrical Installations and Equipment										
- Electric Installations	1,84,32,378	13,67,623	-	1,98,00,001	63,01,288	17,23,141	-	80,24,429	1,17,75,572	1,21,31,090
- Others (to be Specified)	-	-	-	-	-	-	-	-	-	-
TOTAL (X)	1,84,32,378	13,67,623	-	1,98,00,001	63,01,288	17,23,141	-	80,24,429	1,17,75,572	1,21,31,090
Books & Periodicals										
- Library Books	33,38,108	1,42,937	-	34,81,045	33,38,108	1,42,937	-	34,81,045	-	-
- Course Materials & Equipment (NINI)	5,29,999	-	-	5,29,999	5,29,999	-	-	5,29,999	-	-
- Others (to be Specified)	-	-	-	-	-	-	-	-	-	-
TOTAL (XI)	38,68,107	1,42,937	-	40,11,044	38,68,107	1,42,937	-	40,11,044	-	-
TOTAL - (A) TANGIBLE ASSETS (I to XI)	11,35,02,40,961	2,37,57,11,929	(1,66,69,365)	13,70,92,83,525	2,59,85,75,200	28,34,08,726	(20,73,978)	2,87,99,09,948	10,82,93,73,577	8,75,16,65,761
(B) INTANGIBLE ASSETS										
Developed in-House										
- Softwares	-	-	-	-	-	-	-	-	-	-
- Others (to be Specified)	-	-	-	-	-	-	-	-	-	-
Bought Out										
- Softwares	1,21,38,741	14,78,484	-	1,36,17,225	1,00,96,623	14,41,399	-	1,15,38,022	20,79,203	20,42,118
- Others (to be Specified)	-	-	-	-	-	-	-	-	-	-
TOTAL - (B) INTANGIBLE ASSETS	1,21,38,741	14,78,484	-	1,36,17,225	1,00,96,623	14,41,399	-	1,15,38,022	20,79,203	20,42,118
GRAND TOTAL (A + B)	11,36,23,79,702	2,37,71,90,413	(1,66,69,365)	13,72,29,00,750	2,60,86,71,823	28,48,50,125	(20,73,978)	2,89,14,47,970	10,83,14,52,780	8,75,37,07,879
Previous Year	10,48,28,76,094	90,16,56,140	(2,21,52,532)	11,36,23,79,702	2,38,00,73,050	22,94,45,434	(8,46,661)	2,60,86,71,823	8,10,28,03,044	8,75,37,07,879

Note :- Depreciation of Rs. 284850125/- for the year and Rs. 2891447970/- includes Amortisation of Rs. 14846054/- for the year on the Gross Blocks of Rs. 24481916/- in respect of Lease Land at Noida Office & Rs. 434253632/- in respect of Lease Land Terminals at Haldia Terminal.

For and on behalf of the Authority

(Dr. Amita Prasad)
Chairperson

4-

(Pravir Pandey)
Vice-Chairman

(Alok Ranjan)
Member (Finance)

(A.K. Gupta)
Director (F&A)

INLAND WATERWAYS AUTHORITY OF INDIA
SCHEDULES FORMING PART OF THE BALANCE SHEET
AS AT 31st MARCH 2019

SCHEDULE 14: CAPITAL WORK IN PROGRESS

(Amount in Rs.)

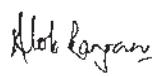
Sl. No.	Name of Party	Purpose	Amount (As on 31.03.2018)	Addition during the year 2018-19	Deletion during the year 2018-19	Amount (As on 31.03.2019)
1. Noida Office						
1	M/s AB Design Habit & Co.,	Design, supervision of museum	0	3474805	0	3474805
Total Noida Office			0	3474805	0	3474805
NW- 1 - Kolkata office						
1	M/s Nalanda Engineering Enterprises	Construction of Gangways at Haldia Terminal	2361682	500000	2861682	0
	M/s Nalanda Engineering Enterprises	Construction of BISN Gangways at Haldia Terminal	2245473	0	123232	2122241
	M/s Nalanda Engineering Enterprises	Construction of Gangways at Haldia Terminal	1759567	500000	2259567	0
2	CPWD	Construction of boundary wall at GRJ	9508000	0	9508000	0
3	M/s Cleghorn Manufacturing Co. Limited	Keen laying of steel pontoon	0	4819500	0	4819500
Total - Kolkata office			15874722	5819500	14752481	6941741
Patna Office						
1	M/s Abhay Kumar Singh	RIS at Hatidah, Barh, Govindpur Khas	5111348	32106	5143454	0
2	M/s Recktronics Devices	River Information Systems -Farakka Patna	0	3551985	3551985	0
3	M/s Dinesh Prasad	Construction of RIS Stations		986949	986949	0
4	M/s Elcome Integrated Services Pvt. Ltd.	RIS Equipment at Patna-Varanasi, Mauzampur & Govindpur	22974248	15667240	22928736	15712752
5	M/s Cochin Shipyards Ltd.,			59400000	0	59400000
6	M/s Shiv Chandra Kumar	RIS Ramnagar, Zamania & Mauzampur	7302048	2426762	3031208	6697602
Total -Patna office			35387644	82065042	35642332	81810354
Jal Marg Vikas Project						
1	M/s Turnkey Waterways Joint Venture Goa	Procurement Survey-cum-Inspection Vessels	139927600	0	139927600	0
2	M/s Afcons Infrastructure Ltd.	Construction of multimodal terminal at Varanasi	97,99,33,581.00	75,66,06,179.00	0	1736539760

Sl. No.	Name of Party	Purpose	Amount (As on 31.03.2018)	Addition during the year 2018-19	Deletion during the year 2018-19	Amount (As on 31.03.2019)
3	M/s Larsen & Toubro Ltd.	Construction of multimodal terminal at Sahibganj	1283863364	632821879	0	1916685243
		Construction of new navigational lock at Farakka	656766868	56,10,96,451.00	0	1217863319
4	DFO, Kashi Wildlife Division	Setup of Trust for turtle wildlife sanctuary management	84797387	8900000	0	93697387
5	M/s ITD Cementation India Ltd.	Construction of MMT at Haldia	12941157	2175706094	0	2188647251
6	M/s Adani Ports & SEZ Limited		0	217544062	0	217544062
7	Operation & maintenance for 2014-18		0	642246039	0	642246039
8	Operation & maintenance for 2018-19		0	303388703	0	303388703
9	Executive Engineer of varanasi	Replacement cost of pump canal sytem		39000000	0	39000000
10	District Land Acquisition Officer	R&R for Sahibganj Land	360019000	14400000	0	374419000
Total - JMVP			3518248957	5351709407	139927600	8730030764
NW-2						
1	CPWD-Guwahati	Construction of Terminal at Dhubri	424539000	59611000	484150000	0
2	M/s Yojaka India Pvt. Ltd	Construction of Slipway repair facility	33387161	0	28473265	4913896
3	M/s Soft Shipyards Pvt. Ltd. (including M/s IRS amount)	Construction & Supply of two unit of self propelled Cargo Vessel 2000T in Indo-Bangladesh Route for NW-2.	91150632	18625793	109776425	0
4	Cochin Shipard Ltd	Construction of RO- pax Vessels	0	228000000	0	228000000
5	M/s Ranu Nandi	Extension & electrical installation of building for customs & immigration office at Dhubri	0	646418	0	646418
6	M/s A.C.ROY & CO,	Design, Construction & Supply of One no. Ro-Ro vessel carry 8 Truck & 100 Passenger	68624010	30224102	98848112	0

Sl. No.	Name of Party	Purpose	Amount (As on 31.03.2018)	Addition during the year 2018-19	Deletion during the year 2018-19	Amount (As on 31.03.2019)
		Design, Construction & Supply of One no. Ro-Ro vessel carry 12 Truck & 200 Passenger	34776000	81987231	116763231	0
Total - NW-2			652476803	419094544	838011033	233560314
NW-3						
1	CPWD-Kerala	Construction of terminal and approach Road at Alappuzha, Kayamkulam, Chavara	14,28,95,857	13150456	0	15,60,46,313
2	M/s Cochin Shipyards Ltd.,		0	35100000	0	35100000
3	M/s The Bismi Infotech	Local Area Network work	342732	0	342732	0
4	Executive Engineer Irrigation, Govt of Kerala	repair works of 40 feet navigational lock at Thanneermukkom		22800000		22800000
5	The Director, Inland Navigation Directorate	reconstruction of navigational lock at Thrikkunnappuzha		16228741		16228741
Total - NW-3			14,32,38,589	8,72,79,197	3,42,732	23,01,75,054
NW-4						
1	M/s Waterways Shipyards Pvt. Limited	floating pontoons on river krishna-NW-4	0	29232000	0	29232000
Total - NW-4			0	2,92,32,000	0	2,92,32,000
NW-5						
1	M/s Merolyn Engineering Works Pvt. Ltd.	Construction Design of Steel Pontoon with Gangway	13087000	4743635	17830635	0
Total - NW-5			13087000	4743635	17830635	0
2	Intangible Assets Under Development					
Grant Total			4,37,83,13,715.00	5,98,34,18,130.00	1,04,65,06,813.00	9,31,52,25,032.00

For and on behalf of the Authority


(A. K. Gupta)
Director (F&A)


(Alok Ranjan)
Member (Finance)


(Pravir Pandey)
Vice-Chairman


(Dr. Amita Prasad)
Chairperson

**INLAND WATERWAYS AUTHORITY OF INDIA
SCHEDULES FORMING PART OF THE BALANCE SHEET
AS AT 31st MARCH 2019**

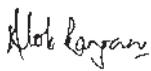
SCHEDULE 15: "NON CURRENT INVESTMENTS"

(Amount in Rs.)

S. No.	PARTICULAR	OPENING BALANCE	ADDITIONS DURING THE YEAR	DISPOSE OFF/ WRITTEN DOWN DURING THE YEAR	CLOSING BALANCE
A	INVESTMENT OUT OF EARMARKED FUND				
1	IN GOVERNMENT SECURITIES	-	-	-	-
2	OTHER APPROVED SECURITIES	-	-	-	-
3	SHARES	-	-	-	-
4	DEBENTURES AND BONDS	-	-	-	-
5	SUBSIDIARIES AND JOINT VENTURES	3,00,000.00	-	-	3,00,000.00
6	OTHERS (TO BE SPECIFIED)	-	-	-	-
	SUB -TOTAL (A)	3,00,000.00	-	-	3,00,000.00
B	INVESTMENT OUT OF OWN FUND				
1	IN GOVERNMENT SECURITIES				-
2	OTHER APPROVED SECURITIES	-	-	-	-
3	SHARES	-	-	-	-
4	DEBENTURES AND BONDS	-	-	-	-
5	SUBSIDIARIES AND JOINT VENTURES	-	-	-	-
6	OTHERS (LIC OF INDIA))	8,84,20,398.00	1,86,53,710.00	31,38,905.00	10,39,35,203.00
	SUB -TOTAL (B)	8,84,20,398.00	1,86,53,710.00	31,38,905.00	10,39,35,203.00
	TOTAL (A+B)	8,87,20,398.00	1,86,53,710.00	31,38,905.00	10,42,35,203.00

For and on behalf of the Authority


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INLAND WATERWAYS AUTHORITY OF INDIA
SCHEDULES FORMING PART OF THE BALANCE SHEET AS AT 31st MARCH 2019

SCHEDULE - 16 “DEPOSITS, LOANS AND ADVANCES”

(Amount in Rs.)

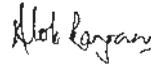
Sl. No.	PARTICULAR	CURRENT YEAR	PREVIOUS YEAR
1	ADVANCE TO CONTRACTORS & SUPPLIERS		
	- CAPITAL ADVANCE	1770283964	1729683428
	- REVENUE ADVANCE	29225553	12339139
2	ADVANCE TO STAFF	6283935	2992963
3	DEPARTMENTAL ADVANCE	0	
4	SECURITY DEPOSITS PAID	39571460	38841443
5	ADVANCE DUTIES AND TAXES PAID	14804293	20731748
6	INTEREST ACCRUED & DUE	119028	
7	OTHERS	0	
	TOTAL	1860288233	1804588721

SCHEDULE - 17 “OTHER NON CURRENT ASSETS”

1	PREPAID EXPENSES	1262850	1761032
2	CLAIMS RECOVERABLE	82845014	92751536
3	OTHERS (NATURE TO BE SPECIFIED)		
	TOTAL	84107864	94512568

For and on behalf of the Authority


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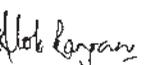
SCHEDULE 18: “CURRENT INVESTMENTS”

(Amount in Rs.)

Sl. No.	PARTICULAR	OPENING BALANCE	ADDITIONS DURING THE YEAR	DISPOSE OFF/ WRITTEN DOWN DURING THE YEAR	CLOSING BALANCE
1	IN GOVERNMENT SECURITIES	-	-	-	-
2	OTHER APPROVED SECURITIES	-	-	-	-
3	SHARES	-	-	-	-
4	DEBENTURES AND BONDS	-	-	-	-
5	OTHERS (TO BE SPECIFIED)	-	-	-	-
	TOTAL	-	-	-	-

For and on behalf of the Authority


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Chairperson

**INLAND WATERWAYS AUTHORITY OF INDIA
SCHEDULES FORMING PART OF THE BALANCE SHEET
AS AT 31st MARCH 2019**

(Amount in Rs.)

SCHEDULE - 19 "INVENTORIES"			
Sl. No.	PARTICULAR	CURRENT YEAR	PREVIOUS YEAR
1	MARINE SPARE PARTS	29511914	29892471
2	PERMANENT STORES	6331347	617966
3	CONSUMABLES & STATIONERY	449539	607190
4	POL STOCK	13571192	14511771
5	OTHERS (NATURE TO BE SPECIFIED)		0
	TOTAL	49863992	45629398
SCHEDULE - 20 "SUNDRY DEBTORS"			
1	MORE THAN SIX MONTHS	104052028	31342794
2	OTHERS (i.e. LESS THAN SIX MONTHS)	19832828	75599336
	TOTAL	123884856	106942130
SCHEDULE - 21 "CASH AND CASH EQUIVALENTS"			
1	CASH IN -HAND		
	- INR	35816	27723
	- FOREIGN CURRENCY		
2	STAMP IN-HAND		
3	CASH WITH BANKS		
	- CURRENT ACCOUNTS	94261940	36979123
	- SAVING ACCOUNTS	915722293	551982271
4	SHORT TERM DEPOSIT WITH BANKS	3919162164	5116196763
5	REMITTANCE IN TRANSIT		0
	TOTAL	4929182213	5705185880
SCHEDULE - 22 "DEPOSITS LOANS AND ADVANCES"			
1	ADVANCE TO CONTRACTORS & SUPPLIERS		
	- CAPITAL ADVANCE	929347898	1342616398
	- REVENUE ADVANCE	14824206	18501587
2	ADVANCE TO STAFF	1068159	2669711
3	DEPARTMENTAL ADVANCE	660331	173318
4	SECURITY DEPOSITS PAID	1103766	0
5	ADVANCE DUTIES AND TAXES PAID	13302747	134392
6	INTEREST ACCRUED & DUE	7273708	30798443
7	OTHERS (NATURE TO BE SPECIFIED)		
	TOTAL	967580815	1394893849

INLAND WATERWAYS AUTHORITY OF INDIA
SCHEDULES FORMING PART OF THE BALANCE SHEET
AS AT 31st MARCH 2019

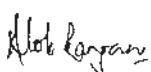
(Amount in Rs.)

SCHEDULE - 23 "OTHER CURRENT ASSETS"			
Sl. No.	PARTICULAR	CURRENT YEAR	PREVIOUS YEAR
1	INCOME AURUED	0	0
(a)	ON INVESTMENTS		
(b)	ON LOANS AND ADVANCES		
2	OTHER (INCLUDING CLAIMS RECOVERABLES)		
	- CLAIM RECOVERABLE	17901828	3578972
	- PREPAID EXPENSE	456791	1113171
	TOTAL	18358619	4692143

For and on behalf of the Authority



(A. K. Gupta)
Director (F&A)



(Alok Ranjan)
Member (Finance)



(Pravir Pandey)
Vice-Chairman



(Dr. Amita Prasad)
Chairperson

INLAND WATERWAYS AUTHORITY OF INDIA
SCHEDULES FORMING PART OF INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDED 2018

SCHEDULE - 24 "OPERATIONAL AND MAINTENANCE EXPENSES"

PARTICULARS	H.O.	(Amount in Rs.)										PREVIOUS YEAR
		NW-1	NW-2	NW-3	NW-4	NW-5	NEW WATERWAYS	PATNA - NINI	JAL MARG VIKAS PROJECT	CURRENT YEAR		
(i) SURVEYING		97467805	36482568	3099095	1998004	17617300				0	156664792	139882456
(ii) DREDGING		186210093	42713739	79430459	215147440	0					523501731	553940513
(iii) BANDALING		54856515	60617151								115473666	105152851
(iv) AIDS TO NAVIGATION & CHANNEL MARKING		27339985	13941001	0							41280986	27113170
(v) TERMINAL FACILITIES		105635927	71266869	13336255	31440	278196				0	190548687	197905322
(vi) REPAIR AND MAINTENANCE OF VESSELS		58569669	2102324	1123382		0					80715375	56509354
(vii) NIGHT NAVIGATION		51100880	52506471	7456185							111063536	100537580
(viii) PROTOCOL EXPENSES		22224853	1704864								23929717	15977440
(ix) RIVER BANK PROTECTION			80483	5210186							5290669	4731537
(ix) TRAINING EXPENSES		24686571									24686571	27192481
(x) CONSULTANCY CHARGES	66668005	0	2236100	214170	3469699	1001412				0	170186048	260319684
(xi) PROJECT MANAGEMENT CONSULTANCY CHARGES			12369098	2473818	8358424	1661634				0	67174632	93001211
(xii) PUBLIC PRIVATE PARTNERSHIP PROJECT EXPENSES										\	0	
(xiii) INFORMATION TECHNOLOGY RELATED EXPENSES	5964790	616279	2356779	455158							9393006	5146365
(xiv) INLAND WATERWAYS TRANSPORT PROMOTIONS EXPENSES	16636315	65754695	35126521	5000	0	0					117522531	72006017
(xv) SALARY WAGES & OTHERS ADMINISTRATIVE EXPENSES										0	0	27085571
(xvi) OTHERS- Freight Village	1981032										1981032	0
- BARAK											250238041	
- GHAGRA											117661	0
- GANDAK											24644643	
TOTAL	91250142	694463272	352423988	112803708	229005007	20556542	413908665	0	1914413324	0	1686501552	


(A. K. Gupta)
Director (F&A)


(Alok Ranjan)
Member (Finance)


(Pravir Pandey)
Vice-Chairman

For and on behalf of the Authority

(Dr. Amita Prasad)
Chairperson

**INLAND WATERWAYS AUTHORITY OF INDIA
SCHEDULES FORMING PART OF INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDED 2019**

SCHEDULE - 25 "PERSONNEL AND ADMINISTRATIVE EXPENSES"

(Amount in Rs.)

PARTICULARS	H.O.	NW-1	NW-2	NW-3	NW-4	NW-5	NEW WATERWAYS	PATNA - NINI PROJECT	JAL MARG VIKAS PROJECT	CURRENT YEAR	PREVIOUS YEAR
(A) PERSONNEL EXPENSES											
(i) PAY & ALLOWANCE	122355047	110406266	25979424	14242663	4298416	2791692				280073508	248743902
(ii) HONORARIUM	131500								0	131500	33000
(iii) MEDICAL FACILITIES	12141382	3078952	419176	497490	337492	3677				16478169	10849260
(iv) DAILY WAGES						35230				35230	39260
(v) OVER TIME ALLOWANCES (OTA)	95857	73439	0							169296	179126
(vi) BONUS	488741	828960	162914	69080	20724					1570419	2386713
(vii) LEAVE SALARY AND PENSION CONTRIBUTION FOR EMPLOYEES ON DEPUTATION	3808504									3808504	3336898
(viii) RENT FOR ACCOMMODATION PROVIDED TO EMPLOYEES	815903		0							815903	362762
(ix) LIVERIES	0	33880	45000	9300						88180	82134
(x) TUITION FEES	1124290	567000	546889	222750						2460929	2014725
(xi) PENSION CONTRIBUTION	184869147	0	0	0	0	0				184869147	365437900
(xii) GRATUITY CONTRIBUTION	0	0	0	0	0	0				0	44081344
(xiii) LEAVE ENCASHMENT	1328787	137115	37985	162284	25716	33099				1724986	12324054
(xiv) EMPLOYERS CONTRIBUTION TO NEW PENSION SCHEME (NPS)	991993	1062196	306991	232955	56913	0				2651038	1286831
(xv) LTC EXPENSES	2898126	871211	582705	37316	5950	155916				4551224	2722475
(xvi) STAFF WELFARE EXPENSES	1987019	378826	93575	56628	20647	25430				2562125	1922696
(xvii) STAFF RECRUITMENT EXPENSES	7285844			0						7285844	7299681
(xviii) SEMINAR AND TRAINING EXPENSES	727631			0						727631	1967910
(xviii) OTHER EXPENSES (NATURE TO BE SPECIFIED)										0	-
TOTAL	341049771	117437845	28174649	15530466	4765858	3045044	0	0	0	510003633	725070671
(B) ADMINISTRATIVE EXPENSES											
(i) REPAIR & MAINTENANCE	13824589	475455	109976	38725	73832	127542				14650119	18368357
(ii) COMMUNICATION EXPENSES	1492579	225597	126962	199638	18641	72421				2135638	2631858
(iii) PRINTING & STATIONERY	3722307	37589	255221	100594		35036				4150747	4744489
(iv) VEHICLE RUNNING & MAINTENANCE	8479743	1241261	51650	0		567935				10340589	9174244
(v) ADVERTISMENT & PUBLICITY	887428			72391	0	0				959819	1191188
(vi) CONVEYANCE REIMBURSEMENT	607724	173016	7032	2750	6340	4950				801812	652106

INLAND WATERWAYS AUTHORITY OF INDIA



PARTICULARS	H.O.	NW-1	NW-2	NW-3	NW-4	NW-5	NEW WATERWAYS	PATNA - NINI PROJECT	JAL MARG VIKAS PROJECT	CURRENT YEAR	PREVIOUS YEAR
(vii) TRAVELLING										0	-
- INLAND	12747136	301231	0	0	72890	718086				13839343	12142291
- FOREIGN	2012168									2012168	975217
(viii) NEWSPAPER & PERIODICALS	300648	95339	38346	35286	3479	14066				487164	248459
(ix) CONSUMABLES	369631	45480	19847	23654	14708	23672				496992	312703
(x) ELECTRICITY & WATER	5075009	634644	0	244967	112654	31454				6098728	6724448
(xi) LEGAL AND PROFESSIONAL CHARGES	2595798	30766		294158	0	0				2920722	1220898
(xii) LOSS ON SALE OF ASSETS										0	-
(xiii) HINDI PROMOTION	334168	177906	60102	24570	6287					603033	701819
(xiv) AUDIT FEES & EXPENSE	2707698									2707698	3235544
(xv) AUTHORITY MEETINGS EXPENSES	34494									34494	70695
(xvi) INSURANCE					6411					6411	-
(xvii) RENT, RATES & TAXES		2318982	0	1990		20724				2341696	2186805
(xviii) WRITTEN OFF										0	-
(xix) BAD DEBTS										0	-
(xx) MISC. EXPENDITURE	15954	0	13470	456472	1	33629				519525	363988
(xxi) Bond Related Exp	2182037									2182037	9895742
(xxii) OTHERS (Swachh Bharat Abhiyan)		241850	183246	34885						459981	0
- LEASE RENT WRITTEN OFF	271655									271655	271289
TOTAL	57660766	5999116	865852	1530080	315242	1649515	0	0	0	68020571	75112140
GRAND TOTAL (A + B)	398710537	123436961	29040501	17060546	5081101	4694559	0	0	0	578024205	800182811

SCHEDULE - 26 "FINANCE CHARGES"

(i) BANK CHARGES	39616	29361	4116	1635	1388	721		4793	0	81631	201245
(ii) INTEREST PAID										0	
- ON BONDS / DEBENTURE	762970738									762970738	496875008
- ON OTHERS										0	
(iii) COMMISSION / BROKAGE										0	
TOTAL	763010354	29361	4116	1635	1388	721	0	4793	0	763052369	497076253

For and on behalf of the Authority


(Dr. Amita Prasad)
 Chairperson


(Pravir Pandey)
 Vice-Chairman


(Alok Ranjan)
 Member (Finance)


(A.K. Gupta)
 Director (F&A)

INLAND WATERWAYS AUTHORITY OF INDIA
SCHEDULES FORMING PART OF THE BALANCE SHEET
AS AT 31st MARCH 2018

SCHEDULE 27: "PRIOR PERIOD EXPENSES"

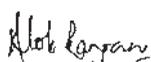
(Amount in Rs.)

PARTICULAR	CURRENT YEAR	PREVIOUS YEAR
Noida Office		
Salary Employees March'18	(211386)	
M/s Technocrates (India) Ltd	56640	
PAO Audit CAG	(1329664)	
Sh. K.S. Rao-	(5711)	
M/s FICCI	(7670)	
Bonus Staff	(434628)	
M/s Pravidhi India	(225079)	
M/s Bharat Security Services Ltd	(116280)	
M/s KITCO	(4000)	
Claims Payable	(91029)	
M/s City Lift India	(55155)	
M/s Yojaka India Pvt Ltd	(1172603)	
Total (A)	(3596565)	
Patna Office		
M/s Maa Vindhya wasni Enterprses	66528	
M/s Abhay Kumar Singh	41698	
Motor Vehicle	(53071)	
M/s Ravindra Kumar Singh	(686320)	97475151
M/s Shiv Chandra	70638	
M/s Jai Prakash Narayan	128	
A.O. Cash PGM TD (BSNL)	43707	
M/s IMS Ship Management	59033	
Vessel Ordinary (Fixed Assets)	(611050)	
M/s Mackintosh Burn & Northern Express Consortium	(401226)	
Depreciation	(64696)	
Total (B)	(1534631)	
NINI Patna Office		
Examiner Charge of Enternal Examiners	47160	
Visiting Facult Charge	160350	
Comsultancy Fee	7500	
M/s Balram Kumar	(1688)	
Office Equipment	(768)	
Advance Income	(1387511)	
Library Books	(3902)	
Ashok Kumar Rai	(300)	
Access Zone for non supply of Internet Router	(11100)	

PARTICULAR	CURRENT YEAR	PREVIOUS YEAR
Brand Buzz for printing of Voucher	(1740)	
Krishna Consultancy for AMC of UPS	(90731)	
Calim recoverable	47000	
SK Tomer for availing leave	(13654)	
SB Mishra for availing leave	(109488)	
Total (C)	(1358872)	
Guwahati Office		
Adventure Resorts & Cruises for electricity consumed	(79593)	
Reach Dredging Barak Ltd., for dredging expenses	1687135	
Reach Dredging Barak Ltd., for dredging expenses reversed	(1003709)	
Tracking System (Fixed Assets)	(20650)	
Capitalization of Land	(5000)	
M/s A.C. Roy & Co., Kolkata	(434946)	
PWD, NH, Govt. of Assam	(179217)	
M/s Tibma Shipyard	(924750)	
Total (D)	(960730)	
Kochi Office		
M/s Crown Maritime	1755054	
GST Liability paid	140445	
GST Liability Reversal	(7328)	
Penalty Refund received from Cochin Corporation	(1012232)	
Total (E)	875939	
Jal Marg Vikas Project (JMVP)		
Operation & maintenace expenses for F.Y .14-15	(7297398)	
Operation & maintenace expenses for F.Y .15-16	(126289140)	
Operation & maintenace expenses for F.Y .16-17	(269069939)	
Operation & maintenace expenses for F.Y .17-18	(239589561)	
Total (F)	(642246038)	
Bhubaneshwar office		
M/s RDL	(36186620)	
Total (G)	(36186620)	
Vijaywada office		
Electricity Bill	262239	
Total (H)	262239	
Gran Total (A+B+C+D+E+F+G+H)	(684745278)	97475151

For and on behalf of the Authority


(A. K. Gupta)
Director (F&A)


(Alok Ranjan)
Member (Finance)


(Pravir Pandey)
Vice-Chairman


(Dr. Amita Prasad)
Chairperson

AUDIT REPORT OF THE COMPTROLLER AND AUDITOR GENERAL OF INDIA ON THE ACCOUNTS OF INLAND WATERWAYS AUTHORITY OF INDIA FOR THE YEAR ENDED 31 MARCH 2019

We have audited the attached Balance Sheet of Inland Waterways Authority of India (Authority) as at 31 March 2019 and the Income and Expenditure Account/Receipts and Payments Account for the year ended on that date under section 23 of the Inland Waterways Authority of India Act, 1985 (IWAI Act, 1985) and Rule 28(3) of the Inland Waterways Authority of India Rules, 1986 (IWAI Rules, 1986). These financial statements include the accounts of units/branches of the Authority. These financial statements are the responsibility of the Authority's management. Our responsibility is to express an opinion on these financial statements based on our audit.

We have conducted our audit in accordance with auditing standards generally accepted in India. These standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatements. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management as well as evaluating the overall presentation of financial statements. We believe that our audit provides a reasonable basis for our opinion.

Based on our audit, we report that:

- i. We have obtained all the information and explanations, which to the best of our knowledge and belief were necessary for the purpose of our audit;
- ii. The Balance Sheet and Income and Expenditure Account/Receipts and Payments Account dealt with by this report have been prepared in the revised format of accounts which the IWAI has sent for approval of Ministry of Shipping, Government of India (GoI) and the same was in the process of approval of GoI, under Section 34(2)(g) of the IWAI Act, 1985 and Rule 28(2) of the IWAI Rules, 1986;
- iii. In our opinion and subject to approval of revised format by Government of India proper books of accounts and other relevant records have been maintained by the Authority as required under Section 34(2)(g) of the IWAI Act, 1985 in so far as it appears from our examination of such books except that: We further report that

General

Ministry of External Affairs (MEA), Government of India through an agreement (March 2009) appointed the Authority as Project Development Consultant (PDC) for Kaladan Project being executed for implementation of multi-modal transit transport facility, on Kaladan River connecting Sittwe Port in Myanmar with the State of Mizoram in India. The work on the project is still in progress.

As per the disclosure made in point No. 16 of Notes to financial statements Authority has received, upto 31 March 2019, ₹ 26.24 crore from MEA including PDC fees of ₹ 22.58 crore, service tax of

₹ 2.11 crore, GST of ₹ 0.56 crore and reimbursement of hydrographic survey expenditure of ₹ 0.99 crore. Internal receipts of ₹ 2.37 crore including bank interest have also been generated in the project till 31 March 2019. Out of the above an expenditure of ₹ 27.59 crore has been incurred upto 31 March 2019.

The facts and figures of the above note cannot be vouched safe by Audit as Authority has prepared separate books of accounts of the Kaladan Project for the year 2018-19 and the components of accounts of above project have not been included in the accounts of Authority for the year 2018-19.

This issue was raised during 2016-17 and 2017-18 also but no corrective action has been taken by the management yet.

- iv. Subject to our observations in the preceding paragraphs, we report that the Balance Sheet and Income and Expenditure Account/Receipts and Payments Account dealt with by this report are in agreement with the books of accounts.
- v. In our opinion and to the best of our information and according to the explanations given to us, the said financial statements read together with the Accounting Policies and Notes on Accounts and subject to the significant matter stated above and other matters mentioned in Annexure to this Audit Report give a true and fair view in conformity with accounting principles generally accepted in India:
- a) In so far as it relates to the Balance Sheet, of the state of affairs of the Authority as at 31 March 2019; and
- b) In so far as it relates to the Income and Expenditure Account, of the deficit for the year ended on 31 March 2019.

**For and on behalf of the
Comptroller and Auditor General of India**

Prachi Pandey
13.3/15

(Prachi Pandey)

**Principal Director of Commercial Audit
& Ex-Officio Member, Audit Board-I,
New Delhi**

**Place : New Delhi
Dated : 13 March 2020**

Annexure
(to the Audit Report on the Accounts of Inland Waterways Authority of India for the year 2018-19)

1. Internal Audit System

Internal audit system of the Authority need to be strengthened in areas of construction of Jal Marg Vikas Project, issuance of bonds, impairment of fixed assets.

2. Internal Control System

Internal control system of Authority is deficient to the extent that inspite of terms of reference for internal auditor including “Review of the action of management in respect of previous internal audit reports and reporting in the current internal audit reports of the issues that were still remaining to be attended by the respective Management”, test check revealed that the internal audit reports of Authority and its field establishments for the year ending March 2019 lacked such review of management’s action by internal auditor. Further, in respect of regional office Kochi and Kolkata instances of files not being maintained properly were noticed.

3. System of physical verification of Fixed Assets

Following deficiencies were noticed in system of physical verification of assets by the Authority:

- The fixed assets register was not being maintained as per the requirements of general financial rules.
- Physical verification reports of fixed assets were not being countersigned by the competent authority.
- In respect of regional office kochi, value of fixed assets in the physical verification statements of fixed assets did not tally with the value in the trial balances for the year 2018-19.

4. System of Physical verification of Inventory

Physical verification statements of inventory were not being countersigned by competent authority.

5. Regularity in payment of Statutory Dues

As per available records no instances of irregularity in payment of statutory dues were noticed.

Management replies on the Comments of Comptroller and Auditor General of India on the Accounts of Inland Waterways Authority of India for the year ended 31st March'2019

1. General

IWAI is appointed as project development consultant for implementation of multi - model transit transport facility on Kaladan River in Myanmar by Ministry of External Affairs and received funds from MEA to meet out the expenditure on supervision of execution only of the project as a Consultant. IWAI is not getting any Grant for the same from Government of India. For the above project IWAI is maintaining separate books of Accounts and the same is audited and certified by independent Chartered Accountant Firm. This position has been disclosed adequately in Note No. 16 of Schedule 2 forming part of the Accounts for the F. Y. 2018-19.

Further, since receipts and expenditure on the above project is not a part of Grants received by IWAI, the yearly surplus/deficit on the project cannot be taken to IWAI FUND U/S 19 of the IWAI Act, 1985. Therefore, the income & expenditure relating to Kaladan project were not included in Annual Accounts of IWAI upto the F. Y. 2017-18 because if the same were included in IWAI Accounts it would only result in inflating figures on both side of Income & Expenditure Account and its transfer of yearly surplus/deficit to IWAI FUND which is not advisable as per Section 19 of the IWAI, Act.

Although, the issue was raised by Audit during 2016-17 and 2017-18, the Account of this project were maintained separately as stated above. The above observation was discussed with Audit Team deputed by C&AG Office while conducting Annual Accounts Audit for the F. Y. 2018-19. It emerged from the discussion that some of the components like Assets and liabilities of Annual Accounts of Kaladan Project may be included in Annual Accounts of IWAI so that the effect of the same will not be in IWAI Fund under Section 19. Accordingly, the Authority had assured that matter would be examined during Current F. Y. 2019-20 for possible inclusion of Accounts of this project in the Annual Accounts of IWAI.

Annexure
(to the Audit Report on the Accounts of IWAI for the year 2018-19)

1. Internal Audit System

Instructions were issued to the Internal Auditor in March, 2019 and again in May, 2020 to ensure compliance. It has been decided by the competent authority to depute inspection teams consisting of officers of the Authority for periodical inspection of field units. This is expected to improve the internal audit system more effective.

2. Internal Control System

In this regard, it is stated that Internal Auditors have invariably included one para in their subsequent Internal Audit Reports about follow up of action taken by the head of regional office on the previous Internal Audit Report. However, the instruction for strict compliance of this has been issued to all the units for necessary compliance of Audit observation. Visit of inspection teams to regional offices as stated above would further strengthen the internal control system as these issues could be effectively taken up during their visit.

3. System of Physical Verification of Fixed Assets

Instructions have been issued to all the units for strict compliance of Audit observation. Instructions have been issued to all the units for getting the Physical verification Reports countersigned by the head of the unit. Kochi office has been directed to examine the issue and reconcile the balances in compliance of Audit observation.

4. System of Physical Verification of Inventory

Instructions have been issued to all the units for getting the Physical verification Reports countersigned by the head of the unit.

5. Regularity in Payment of Statutory Dues

No comments



INLAND WATERWAYS AUTHORITY OF INDIA

A-13, Sector-1, NOIDA-201301, Distt.- Gautam Budh Nagar (U.P.)
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