

ANNUAL REPORT 2016-17



INLAND WATERWAYS AUTHORITY OF INDIA

Annual Report 2016 - 2017



**INLAND WATERWAYS AUTHORITY OF INDIA
MINISTRY OF SHIPPING**

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Chairperson	Smt. Nutan Guha Biswas, IAS (From 07.03.2017 onwards)		
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Member	Sh. Alok Ranjan, ICAS Member (Finance), IWAI (From 01.09.2016 onwards)	0120-2544009	0120-2544009
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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 are critical infrastructure component for economic development of any country. Navigable waterways are a fuel-efficient, environmental 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 optimizing 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 specifically for three categories which include – bulk cargo, 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 in India, eventually benefitting their economies significantly through a self-sustainable supplementary mode of transportation.

(ii) *A major boost to IWT Sector has been provided by the Government through enactment of the National Waterways Act, 2016 (No. 17 of 2016) dated 26th March 2016 which came into force w.e.f. 12th April 2016. This Act repealed previous five nos. National Waterway Acts of existing five National Waterways No. 1, 2, 3, 4 & 5 and further included new 106 Inland Waterways thus totalling 111 nos. waterways declared as National Waterways which cover a total length of 20,375 kms spread across 24 States in the country. National Waterways of India are well in line to become the lifeline of the country. Inland Water Transport (IWT) has a potential to supplement the overburdened Railways and congested Roadways. In addition to cargo movement, National Waterways may provide a convenient function in related activities such as carriage of vehicles (in Roll-on-Roll-off mode of cross-ferry) and Tourism including stay and entertainment.*

(iii) 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 & 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, major thrust is therefore on creation of infrastructure (mainly through public funding) and at the same time, augmentation of IWT fleet primarily through private sector participation.

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 one country to the other country and is also assisting Ministry of External Affairs (MEA) in development & maintenance of Kaladan Multi Modal Project in Myanmar.

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 aspirations of the teeming millions of society.

3. DEVELOPMENT OF NATIONAL WATERWAYS

Three basic infrastructural requirements for making a waterway viable for shipping and navigation includes – (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 its 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 works on the waterway for improvement of its navigability and also development and maintenance of other infrastructure such as navigation aids and terminal facilities as laid down in the IWAI Act, 1985 (82 of 1985). During 2016-17, 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 and dredging and providing navigational aids in Tribeni-Chunar stretch (1226 Km) of NW-1.

The stretch between Haldia and Tribeni (196 km) is tidal and Least Available Depth (LAD) of more than 3.0 m is maintained naturally. Further, IWAI is not undertaking any fairway development work in Chunar-Allahabad stretch presently except day channel marking work as the bandalling alone is not much effective in this stretch due to low discharge of water. IWAI has limited dredgers on NW-1 currently being used in the lower stretches of NW-1 due to the more traffic load and demand. Some of the key development work currently under progress on NW -1 has been listed below:

During 2016-17, Bandalling works of 3,900 m in Tribeni - Rajmahal (399 km) stretch and 18,300 m in Rajmahal-Chunar (827 km) stretch were executed for developing and maintaining the navigation channel (fairway). Besides, 1.95 lakh m³ dredging in Tribeni – Rajmahal stretch and 3.56 lakh m³ dredging in Rajmahal - Varanasi / Chunar stretch was carried out by deploying IWAI's dredgers.



Bandal erected along National Waterway-1



Dredging in progress on National Waterway-1

Work for "Removal of Hard strata from river Ganga in Ghazipur - Varanasi stretch was executed up to March, 2017 and further work now will be continued under Jal Marg Vikas Project. The Least Available Depth

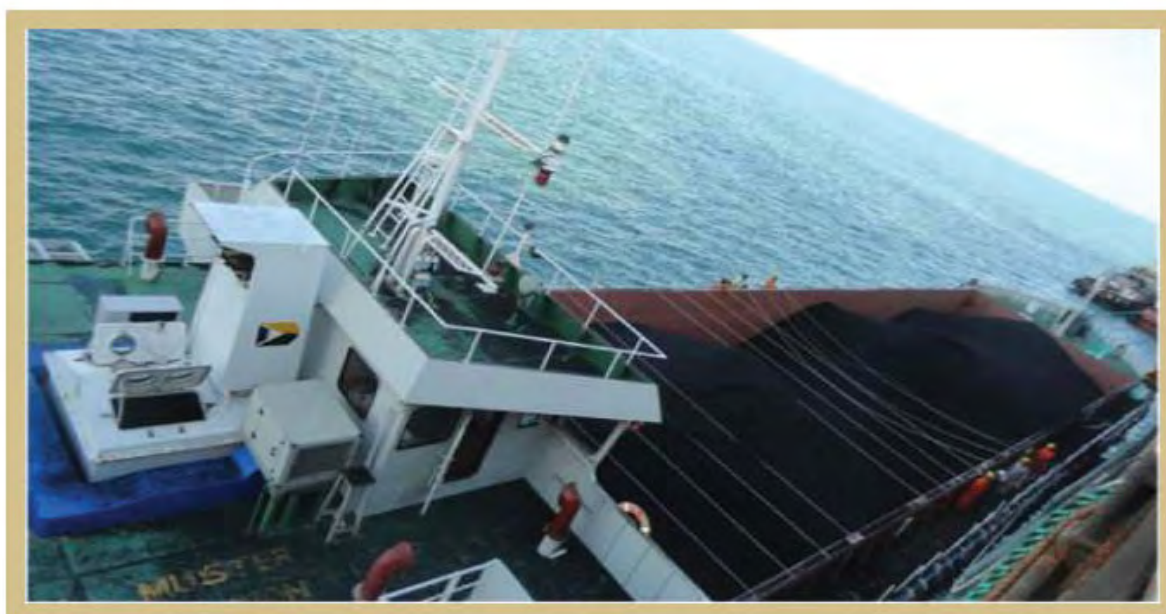
(LAD), which was maintained for various stretches of NW-1 during 2016-17 as given below:

(a)	Haldia – Farakka stretch	(560 km)	–	2.6 m to 3.0 m
(b)	Farakka – Barh stretch	(400 km)	–	2.1 m to 2.5 m
(c)	Barh – Ghazipur stretch	(290 km)	–	1.6 m to 2.0 m
(d)	Ghazipur – Chunar/Allahabad	(370* km)	–	1.1 m to 1.5 m

* In Chunar-Allahabad stretch (198 Km) no river conservancy work has been undertaken except the day channel marking due to low discharge.

4.2 Cargo Movements:

The transportation of Coal for NTPC Power Plant is being undertaken since November 2013 from sand heads (Bay of Bengal) to Farakka through National Waterway–1. During FY 2016-17 about 3.71 lakh tons of imported Coal has been transported successfully by M/s Jindal ITF Ltd. using the barges of about 1500 – 2000 tons capacity.



Imported Coal Transportation



Coal movement to NTPC Farakka through NW-1



Unloading of coal at NTPC Farakka on NW-1

During the year 2016-17, the total Cargo moved in National Waterway-1 & Indo Bangladesh Protocol routes is 46.19 lakhs tons consisting of Over Dimensional Cargo (ODC), Bulk Cargo, Food Grains, Fly Ash, Imported Coal, Fertilizer, Stone Chips, Sand and Building Materials etc.



ODC movement on National Waterway-1

Under cargo promotional initiative, Sh. Nitin Gadkari, Hon'ble Minister of Shipping flagged off the trial movement of Maruti Cars from Varanasi to Kolkata through NW-1 during August, 2016.



Trial movement of Maruti Cars from Varanasi to Kolkata through NW-1

Besides, transportation of Stone Chips and Cement from Varanasi to Ballia in Uttar Pradesh and Course sand from Doriganj (Bihar) to Varanasi (U.P.) have also been done on NW-1 during August, 2016.

4.3 Development of Tourism:

Inland tourist vessels – RV Bengal Ganga, Ganga Voyager-I and Ganga Voyager-II of M/s Heritage River Cruise Pvt. Ltd., ABN Rajmahal of M/s Assam Bengal Navigation Co. Pvt. Ltd. and MV Paramhansa of M/s Vivada Inland Waterways Ltd. are plying on NW-1 in the State of West Bengal, Jharkhand and Bihar since many years. The movements of these vessels with foreign tourists were continued during 2016-17 and completed their trips successfully as per schedule.



Tourist Vessel RV Bengal Ganga on NW-1



Tourist Vessel ABN Rajmahal on NW-1



Tourist Vessel MV Sukapha on NW-1



Tourist Vessel MV Paramhansa on NW-1

Prakash Parv: IWAI contributed in ferrying devotees from IWAI, Gaighat Jetty to Patna Sahib on National Waterway – 1 by using IWAI Ro-Ro vessels in celebration of 350th birth anniversary called “Prakash Parv” of Shri Guru Govind Singh Ji Maharaj in Patna (Bihar) during January, 2017. The State Government appreciated the contribution of IWAI and awarded the “Prashastra Patra” to the Director, IWAI, Patna.



IWAI's Ro-Ro Vessel deployed at Prakash Parv, Patna

4.4 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.



A view of Low Level and High Level Jetty at Gaighat, Patna



Tourist vessel berthed at Patna terminal on NW-1

A Permanent terminal at GIR 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.



Floating terminal at Farakka on NW-1

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.

The locations of these 20 floating terminals are as under:

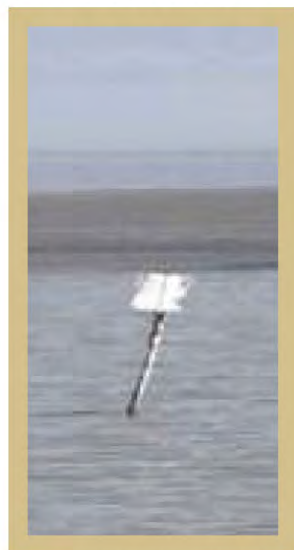
- (i) Haldia, Budge-Budge, BISN, Botanical Garden (Kolkata), Shantipur, Swaroopganj, Katwa, Hazarduari, Downstream (D/s) Farakka and Upstream (U/s) Farakka in **West Bengal**;
- (ii) Rajmahal (Manglahat) and Sahibganj (Samdaghat) in **Jharkhand** and Bateshwarsthan, Bhagalpur, Munger, Semaria and Buxar 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, the development of Multi-Modal Terminals (MMT) at Varanasi (U.P.), Sahibganj (Jharkhand) and Haldia (West Bengal) are in progress under Jal Marg Vikas Project (JMVP) with the World Bank assistance. The details of these projects are included in a separate section of this report.

4.5 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. 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

The Phase-II implementation of RIS stations between Farakka-Patna stretch consisting of 6 Base stations and 1 Control station has been established and will be operational shortly. The implementation of Phase-III of RIS stations between Patna-Varanasi consisting of 4 Base stations and 1 Control station is in progress and scheduled to be commissioned during 2017-18.

5. NATIONAL WATERWAY (NW) - 2

River Brahmaputra from Sadiya to Bangladesh Border near Dhubri (891 km) 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 2016-17, 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) stretches. In Neamati-Dibrugarh stretch fairway of LAD of 2 m with width of 45 m and that of Dibrugarh to Orumhat stretch 1.5 m LAD with width of 45 m is maintained. To maintain this LAD, 21,000 m of bandals were erected at 54 locations during Financial Year. Besides, 1,44,333 m³ of dredging was 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 multiple nos. of 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) is under implementation 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



Fairway with targeted depth & width on NW-2



Terminal with cargo handling equipment on NW-2



Road-Rail Linkage at Pandu Terminal



Bank Protection Works at Jogighopa

5.2 Terminals:

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 in phased manner. A low level jetty was made operational in 2009. A high level jetty at a cost of Rs. 43.85 crore was also made operational during 2014-15 for round the year operation with mechanical handing facility including containers.

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.

A Ro-Ro terminal at Dhubri with all facilities has been provided. 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. 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 for about 5 km length at this location. This, however, will take some time for implementation and stabilization of bank thereafter. In view of this, IWAI has developed temporary Ro-Ro facilities at Hatsingimari till the river bank stabilizes.

One State of the art Ro-Ro vessel (MV. Gopinath Bordoloi) is ready for operation between Dhubri & Hatsingimari. This vessel can move 8 Nos. loaded trucks and 100 passengers in a go. The run voyage of this vessel was flagged off by Hon'ble Minister of Shipping on 29-01-2017 at Guwahati.



Ro-Ro Vessel Gopinath Bordoloi in NW-2

Floating terminals for facilitating cargo movement have been provided and maintained at Nine (09) locations - Hatsingimari, Jogighopa, Tejpur, Silghat, Vishwanathghat, Neamati, Bogibeel/ Dibrugarh, Sengajan/Panbari 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 phased manner.

Phase-I: Activity included laying of RCC porcupine screens across the river channel upstream of Jogighopa to induce pro-siltation activity.

Phase-II: Activity included bank protection works consisting of launching apron & bank revetment with boulders, earthen-dowel bund. The project was completed in November 2015. This project had saved about 18.63 acres of land which would otherwise have been lost permanently. Presently, to strengthen the implemented works, refurbishing is done through Govt. of Assam (NRD) at a cost of Rs. 11.80 Cr. on deposit work basis.

5.3 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.

5.4 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. Two tourist vessels are regularly making voyages between Dhubri/Pandu and Neamati with increasing number of foreign tourists every year. Commitment of IWAI in providing appropriate navigational infrastructure including aids to navigation and terminal facilities in addition to assistance to the vessel in distress has built-up strong eco system for river tourism. This gets reflected in the number of successful voyages in the mighty river Brahmaputra, wherein the operators have successfully completed 34 trips during 2016-17.



Cruise Vessel on NW-2

6. NATIONAL WATERWAY (NW) - 3

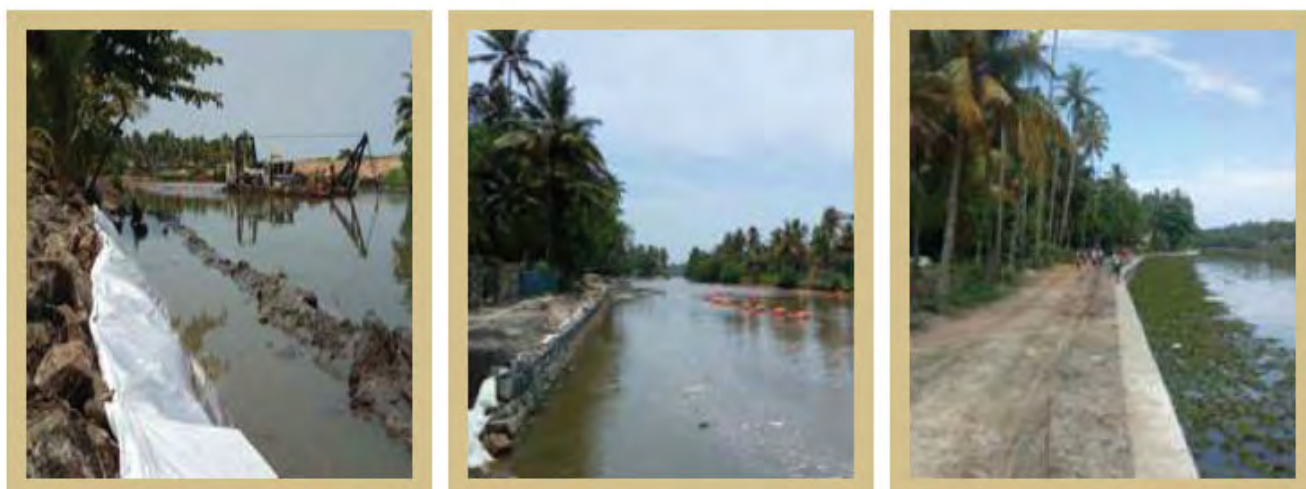
The NW-3 which comprised of the West Coast Canal between Kottappuram & Kollam (168 km), Udyogmandal canal (23 km) and Champakara canal (14 km) [total 205 km] was extended by another 165 km towards North from Kottapuram till Kozhikode during April 2016 with declaration of National Waterways Act, 2016. Preparation of two stage DPR for the development of the extended stretch progressed substantially during

2016-17. 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 lakhs cum dredging has been completed till date in all stretches except a 1.00 km long shoal in KayamkulamKayal and 1.80 km in Edappallikotta–Kollam stretch. As on 31.3.2017, work in the Edappallikotta–Kollam stretch is in progress through contract. At KayamkulamKayal, the work of removing Chinese fishing nets from the NW-3 channel is yet to be completed by the State Government. Dredging can be taken up after removal of fishing nets.

Protection of canal banks against erosion is another important activity for safe navigation in NW-3. IWAI has provided bank protection so far to 15.67 km of canal banks in Champakara 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 10.88 km till 31.3.2017. Such work is in progress at Chavara.



Photos of widening & protection works at Chavara in NW-3

The progress of 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, 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 the 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.

*Dredging Activity in NW-3*

6.2 IWT Terminals :

Cargo terminals have been constructed at eight places (Kottapuram, Aluva, Maradu, Vaikkom, Thanneermukkom, Thrikkunnapuzha, Kayamkulam and Kollam). Construction of one terminal at Alappuzha is almost completed and awaiting for clearances from Fire Department and Municipality. Till now, these terminals are not attracting expected cargo mainly due to reluctance on the part of consignors and consignees to accept a modal shift. Construction of a new and wider approach road to Kottapuram terminal was substantially completed by 31.3.2017.

*Cargo Loading on NW-3*

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 Willingdon 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 are in operation from February 2011. By 31st March 2017, total 2.50 lakh TEUs have been transported between these terminals by a Ro-Ro vessel operated under a Contract with a private operator. In terms of tonnes, the total cargo moved in NW-3 in an organized way by barges during the year was 10.33 lakh tonnes which apart from containers, were mainly Sulphur, phosphoric acid, liquefied ammonia gas, POL 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. An exclusive store for the storage and maintenance of navigational aids & survey equipment's was commissioned at the R.O. Kochi during the year.



Navigational Aids Store in NW-3

6.5 New National Waterways in Kerala :

Following are the three new NWs declared in Kerala during April 2016:

- Alappuzha-Changamassery waterway (NW-8) - 28 km
- Alappuzha-Kottayam-Athirampuzha waterway (NW-9) - 38 km and
- Kottayam-Vaidkom waterway (NW-59) - 28 km

All the above new waterways are directly connected to the existing NW-3. Preparation of two stage DPR for the above new NWs has substantially progressed during 2016-17. It is proposed to consider NW-9 for priority development during 2017-18 due to the potential it offers for early transportation of containerized cargo between Kottayam Port and Vallarpadam ICTT, Kochi.

6.6 Others :

In January 2017, the Regional Office of IWAI at Kochi has been made 100% solar powered LED lighted office in compliance with the Government of India directives for use of green energy. The Regional Office of IWAI is functioning at Kochi along with a sub-office at Kollam.



Solar Power System and Display at R.O., Kochi

7. NATIONAL WATERWAY (NW) - 4 & 5

These waterways were declared as National Waterways in November 2008. Thereafter, Detailed Project Reports (DPR) for development of both NWs were prepared. Subsequently, on the advice of Planning Commission, development of commercially viable stretches through PPP mode was explored by appointing a transaction adviser (consultant) with the financial assistance of Department of Economic Affairs (DEA) and Asian Development Bank (ADB). However, both the waterways were not found to be viable for development in PPP Mode. Hence, it was decided to develop both the waterways through Gross Budgetary Support (GBS) and/or external aid through multilateral resources like ADB or World Bank.

7.1 National Waterway (NW) – 4 :

For development of the waterway in Andhra Pradesh portion, an MoU was signed with Govt. of Andhra Pradesh on 14th April'2016. 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. Contract has been signed to carryout dredging of critical shoals in Muktyala – Harishchandrapur (u/s of Vijayawada) stretch of River Krishna as a part of phase-I development. Irrigation canals from Kakinada to Vijayawada (Kakinada & Eluru canals) & Rajahmundry to Polavaram stretch of Godavari are planned to be developed in Phase-II for a total distance of 233 Km. Commamur Canal, Buckingham canal and balance stretches of river Godavari & Krishna (for a distance of 763 Km.) are planned to be developed in subsequent phases. In the meanwhile, to assess the latest morphological conditions, detailed hydrographic survey in the entire length of NW-4 has been completed. A sub-office of IWAI has been set up at Vijayawada for implementing the development works of phase-1 project and coordinating with State Government.

7.2 National Waterway (NW)–5:

1. For developing 332 km stretch in 2 phases between Talcher & Paradip / Dhamra on NW-5, an MoU (Memorandum of Understanding) with Govt. of Odisha, Paradip Port Trust & Dhamra Port Co. Ltd. was signed by IWAI on 30.6.2014. The Phase-1 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 was signed with Paradip Port on 28.9.2016 for the development of Phase -1 on NW-5, which includes all the Project Management Consultant (PMC) services.



MoU Signing between IWAI & Paradip Port Trust in Ministry of Shipping

2. In connection to the development of Phase-1 stretch between Padanipal and Dhamra / Paradip, EIA & EMP study for obtaining the environment, CRZ, wild life and forest clearance, M/s Cholamandalam has submitted the draft EIA study report and permission for obtaining aforesaid clearance is in process. The IIT Guwahati has completed the Mathematical model study for Brahmani River Delta system and has submitted the report on 15th July, 2016.

3. M/s Tractebel Engineering Pvt. Ltd. has been engaged as Consultant for preparation of Detailed Project Report (DPR) followed by Front End Engineering Design (FEED) and Engineering Procurement Construction (EPC) tender documents for construction of 3 Weirs cum Barrages with navigational locks, 1 Weir cum barrage, 2 Check Dams and 1 Rubber Dam with navigational lock. The consultancy work was awarded on 14.2.2017 and same is likely to be completed by May 2018.

8. NEW 106 NATIONAL WATERWAYS

National Waterways Act, 2016 (No. 17 of 2016) was published in the Gazette of India, Extraordinary, part II, - Section I dated 26th March, 2016 along with the list of 106 new National Waterways in addition to existing 5 National Waterways (NWs) No. 1,2,3,4 & 5, thus totaling 111 NWs in the country. A list of all the NWs with their approx. length is given in Annex-1. Efforts initiated towards undertaking the developmental activities for providing safe fairway channel and creating infrastructures, on phased manner in the identified new National Waterways during 2016-17.

With the declaration of 106 new National Waterways, the work increased manifold. A need was felt to hire additional manpower for technical, financial and various administrative works. Considering this fact, it was proposed to restructure IWAI thus creating additional posts under various heads.

Accordingly, a Restructuring Committee has been constituted to initiate the Restructuring process on urgent basis.

8.1 Status of 106 New National Waterways :

1. As part of the preparatory works to undertake development on 106 new National Waterways, IWAI has grouped them under 3 categories as under:

(A) **Category – I:** 8 waterways which are considered to be the most viable and can be taken up for development in Phase-I.

1. River Barak (NW-16),
2. River Gandak (NW-37),
3. Sunderbans (Protocol Route) Waterways (NW -97),

3 NWs of Goa:

4. Cumberjua River (NW-27),
5. Mandovi River (NW-68),
6. Zuari River (NW-111),
7. Alappuzha – Kottayam–Athirampuzha Canal (NW -9) and
8. Rupnarayan River (West Bengal) (NW -86)

Accordingly, consultancy assignments for preparing EPC tender documents contract and environmental studies for these waterways are being undertaken in phased manner. Fairway development works in river Barak has been awarded.

(B) Category – II: 46 NWs - Those waterways which are in the coastal regions and have some tidal stretches are being considered for development in this category. The number of such coastal rivers and canals is 60 (14 rivers of Sunderbans have been considered as one waterway and extension of West Coast Canal has been considered in NW-3, thus making a total of 46 new waterways). These 60 rivers have been divided into 8 clusters based on their geographical locations.

(I) Two stage DPR studies (stage I feasibility study and based on viability, stage II DPR study) for all the rivers have already been awarded. Based on the outcome of Stage-I feasibility reports of 46 NWs, preparation of Detailed Project Reports (DPRs) for 24 NWs have been awarded by IWAI. DPRs are expected to be finalized by November 2017 and accordingly development works would be initiated. Preparation of DPR of another 2 NWs have been taken up by Thane Municipal Corporation and Government of Nagaland.

(C) Category – III: 52 NWs - The remaining waterways which are in remote, inaccessible and hilly regions have been grouped in this category. These 52 rivers/canals (Krishna and Godavari rivers have been included as extension of NW-4, hence effectively 52 new waterways in the list of 106 waterways) have also been sub-divided into various clusters and initially only feasibility studies for all these waterways have been awarded. Field survey in 46 NWs have been completed and are in progress for 2 NWs. Security clearance of 4 NWs awaited. Feasibility study reports of 40 NWs have been received. Based on the outcome of feasibility studies, further studies like TEF/DPR will be taken up subsequently.

9. INDO-BANGLADESH PROTOCOL ON TRANSIT & TRADE

Inland Water Transit and Trade Protocol exists between India and Bangladesh under which the two Governments agreed to make mutually beneficial arrangement for the use of their waterways for trade between the two countries and for transit cargo from Indian mainland (Kolkata) to NE region.

Transportation of goods between the territories of two countries, takes place in accordance with the laws of the country through which goods are moving.

The existing protocol routes are –(i) Kolkata-Silghat-Kolkata, (ii) Kolkata-Karimganj-Kolkata, (iii) Rajshahi-Dhulian-Rajshahi, (iv) Silghat-Karimganj-Silghat. For inter-country trade, five ports of call Haldia, Kolkata, Pandu, Silghat and Karimganj in India and Narayanganj, Khulna, Mongla, Sirajganj and Ashuganj in Bangladesh have been designated in each country. The protocol came into existence in 1972 and is being renewed from time to time. The existing protocol is valid upto March 2020. More than 25 lakh tons of EXIM and transit Cargo have been transported between Kolkata / Haldia and Bangladesh / North-Eastern part of India under this protocol during 2016-17.



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.

Kaladan Project

M/s Essar Projects (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 as Supervision Consultant for the project.

The Phase-I works of the project are completed and in commissioning stage. The highlights of Phase-I works are as follows;

A. Phase-1 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 work under phase-1 works at Sittwe & Paletwa has been awarded to EPIL which is in progress and expected to be completed by April 2018.

B. Phase-2 works

IWAI is the PDC for implementation of the Phase-2 works also. IWAI has signed an MoU with India Ports Global Ltd. (IPGL) on 1st June 2016. IPGL will be consultant to IWAI for Phase-II works. The works envisaged during Phase - 2 are as under:

- (i) Construction of Container handling facility at Sittwe / Paletwa including preparation of Detailed Project Report (DPR) - Selection of consultant for preparation of DPR is under finalisation.
- (ii) Wreck removal from Sittwe Port Basin area:- Tender is invited for selection of contractor.
- (iii) Operation & Maintenance (O&M) of completed project components for a period of five years; - Documentation, ToR etc. is in final stage and discussion with Govt. of Myanmar for finalisation of mode of operation is in progress by MEA.

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.



Construction of Port & backup facilities at Sittwe



Construction of IWT Jetty at Paletwa

11. HYDROGRAPHY SURVEY ACTIVITIES

Hydrographic survey is the science of measurement and descriptions of features which affect navigation, marine construction, dredging, sand char, 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. Strong emphasis is placed on soundings, shorelines, tides, currents, river morphology and submerged obstructions that relate to the previously mentioned activities. The final stages of the hydrographic process uses the raw data collected through hydrographic survey into information usable by the end user for analysis and safe navigation. The hydrographic wing also publishes Navigation Atlas & Pilots for the National Waterways providing supplementary information to the mariners.

11.1 NATIONAL WATERWAY -1 (Haldia-Allahabad)

THALWEG SURVEYS

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 27307 line Km of Thalweg surveys were undertaken during the year 2016-17.

DETAILED / DREDGING SURVEYS

Pre / Post Bandalling and Dredging surveys were conducted departmentally at 138 shoal locations, details are given in the form of Bar-Chart:-

TERMINAL SURVEYS

Terminal Surveys were carried out at 16 nos. existing terminals / proposed terminals.

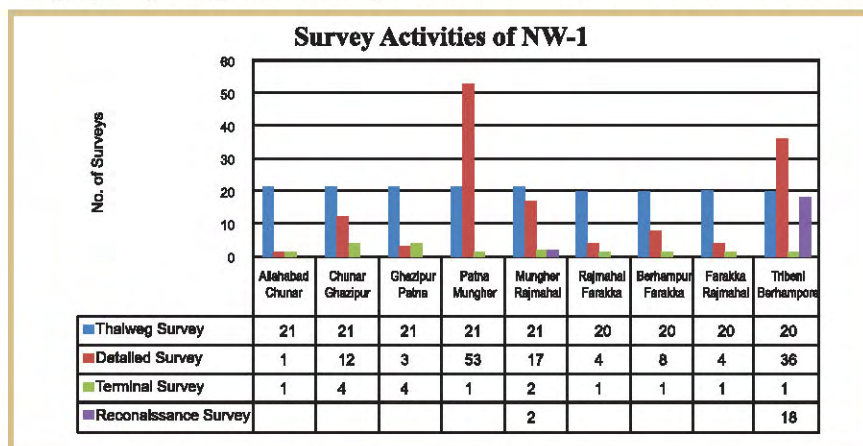
RECONNAISSANCE SURVEYS

IWAI has undertaken Reconnaissance Surveys at 20 nos. locations during the year 2016-17

A longitudinal survey to assess the navigability in Rupnaryan River was also conducted during this year. In addition Haldia – Bellari channel was also surveyed.

Monthly Detailed Survey using multi beam echo sounder is being conducted in Patna – Munger stretch in order to utilize the multi technology for acquiring river bed profile for the full width of navigational channel.

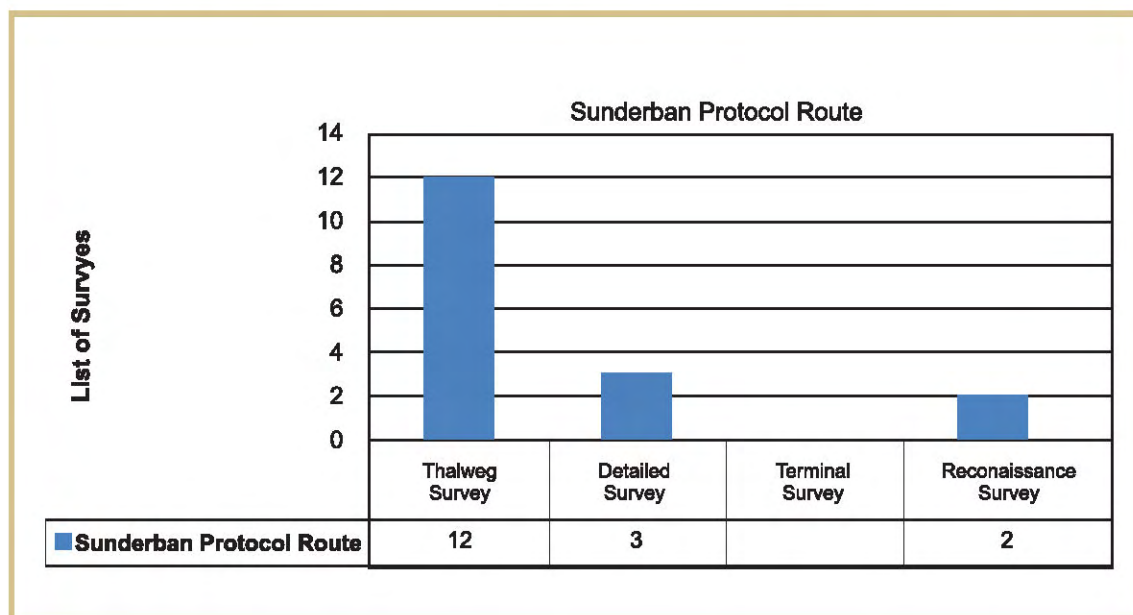
A graph depicting various surveys activities in NW-1 has been shown below:



11.2 Indo-Bangladesh Protocol Route (Sunderbans)

Monthly Thalweg survey was carried out in Indo-Bangladesh Protocol route from Silver Tree point to Beharikhal (Bangladesh border). Total 2,412 line Kms of Thalweg surveys were conducted and River Notices published on IWAI web site. In addition 3 nos. Detail Surveys was also carried out in the Indo-Bangladesh Protocol Route (Sunderbans).

A graph depicting various surveys activities in Sunderbans Protocol Route has been shown below:



11.3 NATIONAL WATERWAY -2 (River Brahmaputra)

THALWEG SURVEYS

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 15480 line Km of Thalweg surveys were undertaken during the year 2016-17.

DETAILED SURVEYS

Pre & Post Bandalling, Dredging surveys, terminals and cross section survey were conducted departmentally at 131 shoal locations for undertaking RC works and ensure smooth navigation.

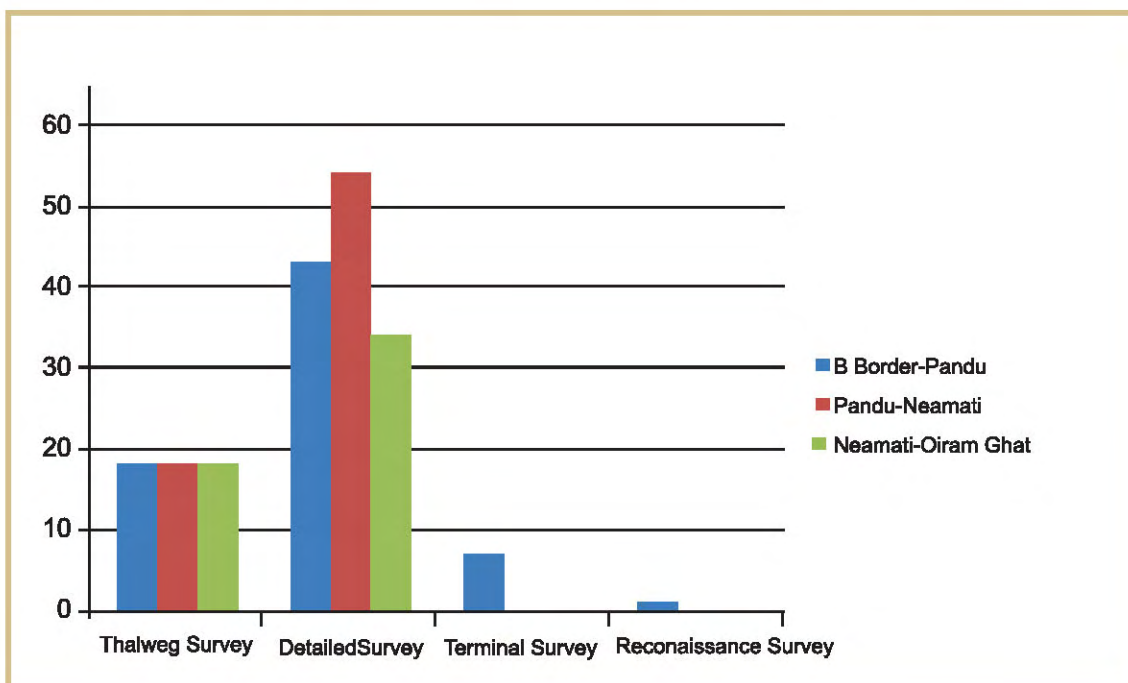
TERMINAL SURVEYS

7 nos. of terminal surveys were carried out at existing / proposed terminals sites during the 2016-17 year.

OTHER SURVEYS

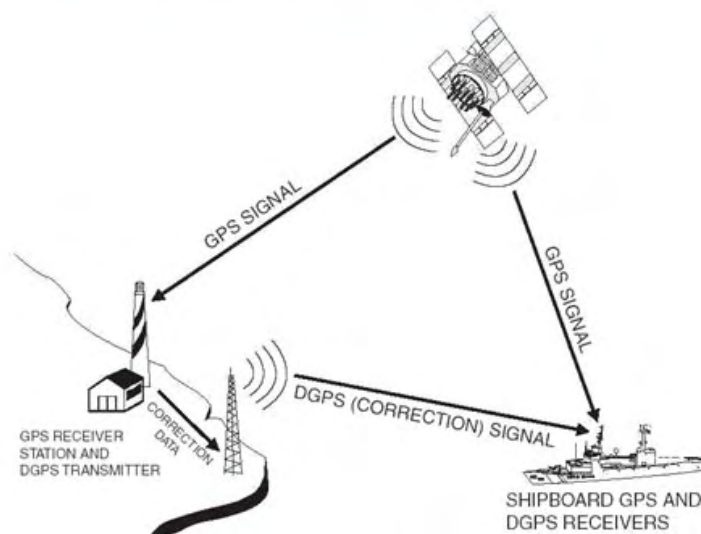
Bank to Bank survey had been conducted between U/s Chelakhura to U/s BurhaBurhi for a length of 8.00 km during April, 2016.

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



11.4 DGPS Based Navigation systems

Keeping in view the commitment to introduce more reliable and safe inland navigation methods, IWA has introduced navigation with DGPS (Differential Global Positioning System) technique in National Waterway 1 & 2. In this project, DGPS stations at Swaroopganj, Bhagalpur & Patna in NW-1 and Dhubri, Jogighoppa, Silghat & Dibrugarh in NW-2 have already been commissioned and are operational. Presently, DGPS connectivity is available for Sagar-Buxar stretch of NW-1 (1124 Kms) out of 1620 Kms and the entire stretch of 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.

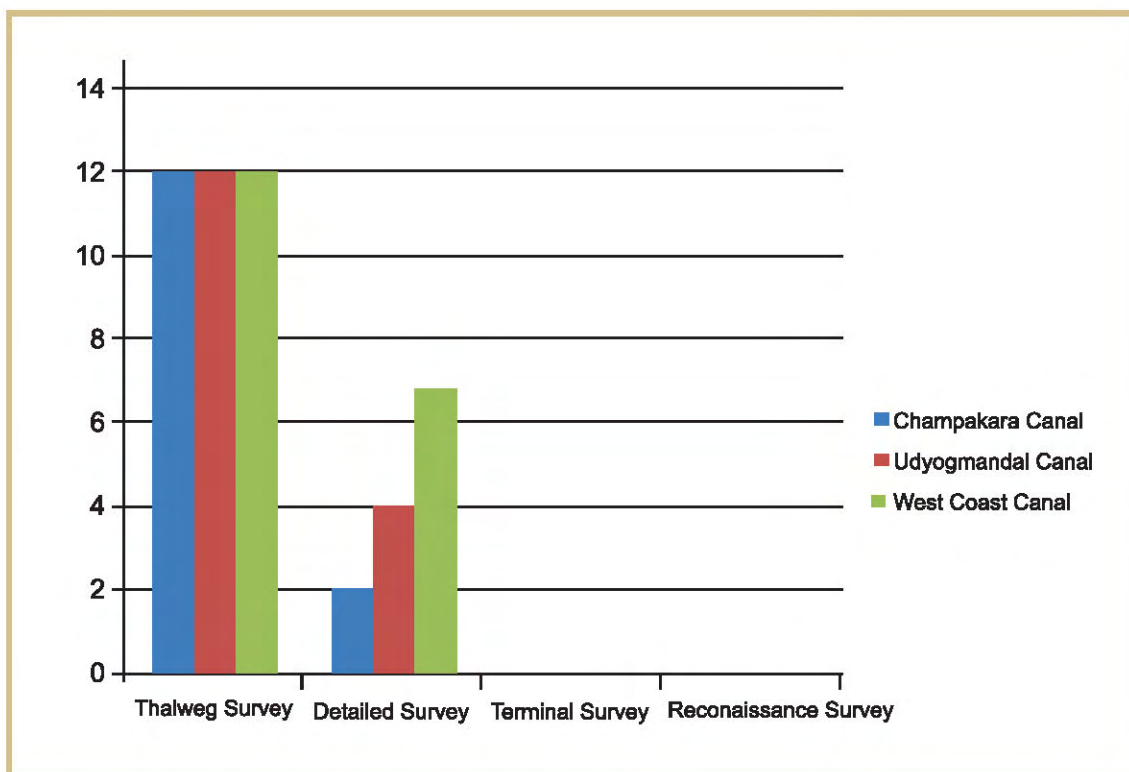
11.5 NATIONAL WATERWAY -3 (West Coast Canal, Udyogmandal & Champakara Canals)

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 2,706 line Km of Thalweg surveys were undertaken during the year 2016-17.

DETAILED SURVEYS

Pre & Post dredging Surveys were carried out at 14 nos. locations. A total quantity of 79899.8 m³ was dredged out during 2016-17.



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

Thalweg Survey on NW - 5

SL. No.	Description of Work	Length (Line Km)
1.	i) Dhamra to Jokadia Barrage (Pankapal) via Dhamra & Kharsuan rivers, (134.50 Km) ii) Padanipal to Sujanpur via Tamtigahi /Dudhai /Kani rivers (45.50 Kms) and iii) Mangalgadi to Paradip Port via Hansua Estuary / Kharnasi rivers (50.0 Kms) & (Dhamra to Charbatia via Matai river)	2760

Pre and Post Dredging Survey on NW - 5

Sl No.	Location	Pre/Post	Chainage		Length (m)
			From	To	
1.	Erada to Angeispur	Pre	9830	6830	3000
2.		Post	9830	7670	2160
3.	Angeispur to Badamanatia	Pre	00	500	500
4.		Pre	870	1870	1000
5.		Post	0	270	270
6.		Post	870	1370	500
7.	Badamanatia to Padanipal	Pre	2150	10720	8570
8.		Post	2150	9260	7110
Total =					23110

11.7 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:-

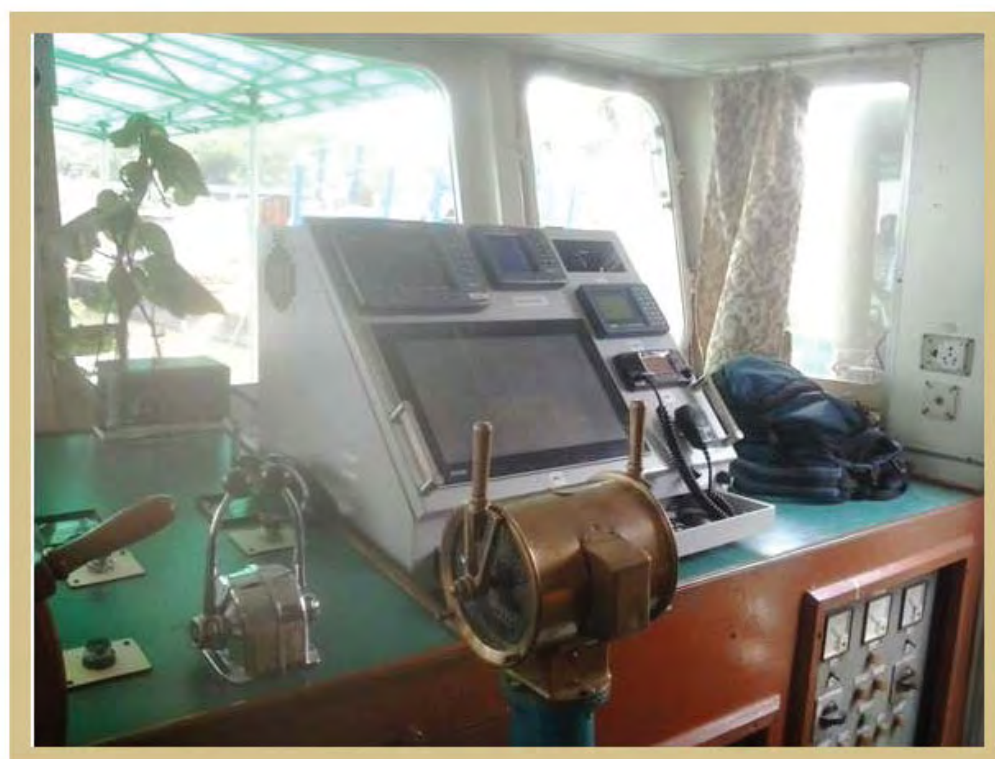
<u>NW-1</u>		<u>NW-2</u>	<u>NW-3</u>
1. S.L.Koel	7. S.L.Mandakini	1. S.L Lohit	1. S.L. Pamba
2. S.L.Dwarkeswar	8. S.L.Gandak	2. S.L.Subansiri	
3. S.L. Megna	9. S.L. Punpun	3. S.L. Barak	
4. S.L. Anupallav	10. S.L. Kosi	4. S.L.Burhi Dihing	
5. S.L. Kamla	11. S.L. Rihand	5. S.L.Dibang	
6. S.L.Ghaghra	12. S.L. Dihang		

11.8 Setting up of River Information Services (RIS) system in Haldia-Farakka stretch

River Information Services (RIS) are equipment, hardware and software information technology (IT) related services designed to optimize traffic and transport processes in inland navigation. The system enhances swift electronic data transfer between mobile vessels and shore (Base stations) through advance and real-time exchange of information. RIS aims to streamline the exchange of information between waterway operators and users.

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 as follows:

	Phase -I: Haldia –Farakka	Phase -II: Farakka-Patna	Phase -III: Patna-Varanasi
Coverage	545 Km	410 Km	353 km
Infrastructures	7 base stations 2 Control stations 30 Vessels station Work awarded on 27.4.14	6 Base stations 1 Control station Work awarded on 05.06.2015.	4 Base stations 1 Control station Work awarded on 03.03.2016.
Status	Commissioned on 06.01.2016.	Installation is under progress.	Installation is under progress



On board River Information System equipment

11.9 CARTOGRAPHIC CELL

The cartographic cell in IWAI Head Office Noida is equipped with modern equipment & software for preparation of Digital Charts using Geographic Information System (GIS) & Image processing software like CARIS, ERDAS Imagine, Auto CAD, etc. The cartographers of IWAI have been trained in using GIS software & image processing software etc.

In the cartographic section, the newly identified 106 waterways have been explored and river course have been digitized using state of art computer hardware and software installed in the Cartographic Lab for preparation of scheme & calling tender.

During the year 2016-17, Satellite data from National Remote Sensing Centre, Hyderabad for all Waterways was obtained and the same has been processed, digitized using Caris GIS software. The land marks, topographical features of Survey of India (SOI) digital data were compiled with field Hypack survey data as well as latest NRSC data for preparation of electronic Charts.

11.9.1 **Selling of Map, Atlas and Navigational Products 2016-2017:**

An amount of Rs. 26,300 only has been collected through sale of Map, Atlas and Navigational products in 2016-17, to IWAI operator users, Private and Govt. departments. Details as shown below:

Sr. No.	Particulars Map/Atlas/Pilot	Purchaser Name	Amount in Rs
1	Index Map of 111 National Waterways	Container Cooperation, Noida	1000.00
2	North East Map	College of Defence Management, Secundrabad	2000.00
3	Atlas National waterway-2	College of Defence Management Sainikpuri, Secundrabad	10000.00
4	River Pilot NW-2	College of Defence Management Sainikpuri, Secundrabad	700.00
5	River Atlas Sunderbans	Feedback infra Pvt.Ltd., Gurgaon	6000.00
6	River Atlas Sunderbans	M/s Viraj clean Sea Enterprises Pvt.Ltd., Mumbai	6000.00
7	River Pilot Sunderbans	Feedback infra Pvt.Ltd., Gurgaon	300.00
8	River Pilot Sunderbans	M/s Viraj clean Sea Enterprises Pvt.Ltd., Mumbai	300.00
Total Amount Rs (Twenty six thousand three hundred Only)			26,300.00

12. 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 M/s. Applied Research International (ARI) Pvt. Ltd, New Delhi in consultation with Program Advisory Committee of IWAI. The major achievements during the year 2016-17 were as below:

A. ACTIVITIES

The following activities were carried out :

(i) Induction Training GP Rating Course (25th & 26th Batch)

- Conducted internal final examinations (written and oral) for General Purpose Rating Induction courses in the months of July, 2016 and January, 2017.
- The GP Rating (IV) trainees were imparted practical training on board training ship Survekshak and Inland Vessel Training Simulator.
- A course was conducted successfully for CRPF water wing personnel for preparatory and basic safety.

◆ Training in the following four DG Approved Basic Courses was provided:

- Elementary First Aid (EFA)
- Fire prevention and Fire Fighting (FPFF)
- Personal Survival Technique (PST)
- Personal Safety and Social Responsibility (PSSR)



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:

- Serang
- Master Class II
- Master Class I
- Second Class Engine Driver
- First Class Engine Driver

(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:

- Serang
- Master Class II
- Master Class I
- Second Class Engine Driver
- First Class Engine Driver
- Inland Engineer

	Serang	Master Class-II	Master Class-I	Engine Driver Class-II	Engine Driver Class-I	IV Engineer
Total Passed	41	0	27	39	09	0

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 record 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.

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.



Visit of Hon'ble Shipping Minister (State) at NINI, Patna



Group Photo of CRPF Water wing personnel at NINI, Patna

D. AFFILIATIONS AND ASSOCIATIONS

- The ISO 9001:2008 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.

E. MARINE SIMULATOR CENTRE, NINI

The Marine Simulator Centre was established in the NINI campus with Joint Venture agreement with M/s ARI Pvt. Ltd. and conducted course for Merchant Marine Officers.

Training for Merchant Marine Officers

- ◆ The following courses were carried out as per schedule:
 - Radar Observer Simulator Course (ROSC)
 - Automatic Radar Plotting Aid (ARPA)
 - Ship maneuvering Simulator (SMS)
 - Electronic Chart Display & Information System (ECDIS)
 - Bridge Team management (BTM)

The number of officers trained in the above courses is 153.

13. DETAILS OF CARGO MOVEMENT & OTHER HIGHLIGHTS DURING THE YEAR

- As a business promotion measure and with the objective of demonstrating the feasibility of IWT, IWAI undertook few trial movement on National Waterways during the year 2016-17. A trial run for the movement of Maruti Suzuki cars from Varanasi to Kolkata was successfully completed in August 2016. IWAI Vessel MV VV Giri carrying 24 Nos. Maruti Cars was flagged off from Varanasi on 12th August 2016 by the Hon'ble Minister for Road Transport, Highways and Shipping. The vessel reached G R Jetty Kolkata on 18th August 2016. On successful transportation of Maruti cars from Varanasi to Kolkata in August 2016, a lot of interest was generated in the Logistics sector for IWT mode. Prominent car manufacturers viz., Honda Motors, Mahindra & Mahindra have shown keen interest in the movement of motor vehicles transportation through Inland Waterways.



Flagging off of Maruti Cars Movement on NW-1

- A parallel trial run was also flagged off with the 900 Metric Tons of stone chips from Sahibganj to Patna and 1010 Metric Tons of construction material from Varanasi to Manihari in the month of August 2016.

- M/s Dalmia Cement had proposed to transport of 10,000 metric tons of bagged cement every month from Haldia to various destinations on NW -1. As a pilot movement, 350 tons of bagged cement of M/s Dalmia Cement was transported from Haldia to Patna which was successfully completed in Feb 2017 by M.V. Zakir Hussain.
- On 13th Oct 2016, Govt. of India extended the “Policy for reimbursement of freight for transportation of Fertilizers by rail” to inland waterways.
- To cater the huge demand of RO-RO transportation on NW-2 (Bramhputra), IWAI has procured a RO-RO Vessel, MV Gopinath Bordoloi with 300 Tons of carrying capacity (8 Trucks of 25 Tons capacity Each, and 100 passengers). In a grand ceremony at Guwahati on 29th Jan 2017, MV Gopinath Bordoloi was flagged off by the Hon'ble Minister of Shipping. The Vessel has been deployed on NW-2 to provide Ro-Ro service between Dhubri and Hatsingimari.
- IWAI has granted permission to M/s Noble Engineering to facilitate the movement of Fly Ash from Kolaghat (Cargo Identification on Rupnarayan River- NW-86) to Haldia for construction of jetty at Kolaghat.
- 370,739.60 Metric Tons of Imported coal was transported from sand Heads / Kanika Sands to NTPC Farakka on NW-1, under Kolkata Region by M/s. Jindal ITF under the TPA (Tripartite Agreement, between, IWAI, NTPC and Jindal ITF). The TPA is for transportation of 3 MMTPA imported coal from high seas to NTPC, STPP, Farakka for a period of 7 years. The transportation of imported coal from the High Seas to Farakka STPP in Jindal barges is a significant milestone in IWT in India.
- Fly-ash loading from IWAI pontoon jetties at Haldia Dock complex and GR Jetty for Bangladesh is a regular activity. A total of 2,552,196.00 Metric Tons of fly-ash was transported to Bangladesh through the protocol route during 2016-17. In addition to Fly Ash other cargo (Stand Jack with Accessories/Gantry crane, Steel material/GC Sheet/Coils/Plates, Container, Food Grains(Rice), Stone chips/pebbles, Jute carpet baking cloth, Steel Sheet, Columns Beams, angles, Girder, Tyres and ODC) Total Cargo Moved on IBP route is 2,583,754.007 Metric Tons.
- Regular movement of containers on NW-3 continued during 2016-17. Total 11946 Nos. of 20' (Twenty Feet) Container and total 13619 Nos. of 40' (Forty Feet) Containers were handled on National Waterway- III. 35 Nos. of 20' TEU Container handled with 805 Metric tons of Plastic Granules commodity were also moved on IBP route.
- Over Dimensional Cargo (ODC) movement takes place on National Waterways as it is generally not feasible to move such cargo on railways and roadways. Total 8 Nos. of consignment of ODC on National Waterway 1, 2 & Indo-Bangladesh Protocol route have moved during the year 2016-17, carrying a total 2841 Metric Tons / 2,146,878.02 Tons Kilometers of ODC mainly equipment for power projects.
- Kolkata Port Trust (KoPT) has informed 1,024,260.40 Metric Tons of different cargo (Pulses, Iron & Steel, Sulphur, Iron ore, Manganese Ore, Coals, Food grains, Fertilizer, Sugar, Rock Phosphate, Timber, Lime stone

etc.) was transported on National Waterway- 1. This is 1936623.30 Metric Tons less from 2,960,883.70 Metric Tons during 2015-16.

- 284,475.00 Metric tons of FO, HF, HSD, LUBE, HF and HSD cargo has also moved on National Waterway-1.

OTHER HIGHLIGHTS

- From time to time, officials of IWAI participated in various exhibitions, conferences and summits to promote IWT as a viable, cost effective and environment friendly mode of transport. IWAI also participated in the Maritime India Summit (MIS) held in Mumbai in April 2016. An IWAI pavilion was set up duly in the summit. During the MIS, IWAI signed MoUs with:
 - Maruti Suzuki India Limited.
 - Indian Oil Corporation Limited
 - Hindustan Petroleum Corporation Ltd.
 - Petronet LNG Ltd.
 - Shipping corporation of India Ltd.



Maritime India Summit, Mumbai held in April 2016

- An MoU was signed between IWAI & Govt. of Odisha, Paradip Port Trust and Dhamra Port Company Ltd. on 14-04-2016 for the development and maintenance of National waterway -5 for the purpose of shipping and navigation of cargo vessels of 1500 tones or any feasible capacity with the required infrastructure and navigational aids.



MoU Signing at Maritime India Summit, 2016

- The Inland Waterways Consortium of Odisha Limited (IWCOL), an SPV for development of multimodal terminal at Pankapal has been constituted by Govt. of Odisha, Paradip Port Trust (PPT) & Dhamra Port Company Ltd. (DPCL), In the 2nd meeting of Board of Directors of IWCOL held on 19.11.2016, it was decided to initiate tender process for the appointment of a consultant for preparation of DPR, detailed Engineering study and bid document for construction of Pankapal terminal.
- IWAI has approached to Maharashtra Maritime Board, Mormugao Port Trust, Goa, and Gujarat Maritime Board to make IWT feasible nationwide. The MoUs are under approval of Ministry of Shipping.
- On the request of Government of West Bengal for the movement of lakhs of pilgrims along with hundreds of Government and Non-Government vehicles from the mainland to Sagar Island (West Bengal), IWAI deployed vessels MV Rajagopalachari, MV Zakir Hussain and MV VV Giri to assist in Ganga Sagar Mela.
- In Nov. 2016, M/s. Earnest and Young was awarded a study on Modal Shift of Cargo passing through Siliguri corridor (Chicken's Neck) destined for North East and Neighbouring countries (i.e., Bangladesh, Nepal, Bhutan, Myanmar and China) to Inland Water Transportation (IWT) and they have submitted their final report.
- IWAI hired, DST Germany under Jal Marg Vikas Project (JMVP) to design standardized IWT vessels. IWAI also participated in workshops held on 4th Nov. 2016 in Kolkata and another in Mumbai on 23rd January

2017, to get feedback, specifications and to find commercial aspects from vessel operators, vessel manufacturer's, shipyards developers and other stake holders. DST Germany prepared their designs accordingly.

- IWAI participated associatively, in a stake holder workshop organized by World Bank on 22nd March 2017 in Varanasi, to explore the possibility to develop a 'Freight Village' and a Multi modal logistic Hub.

➤ AWARDS

- IWAI bagged the prestigious Dainik Bhaskar's India Pride Award 2016-17 under 'Excellence in Autonomous Bodies' category. The award was conferred by Hon'ble Minister of Communication (Independent Charge) & Minister of State for Railways Shri Manoj Sinha on 27th March, 2017 in New Delhi. Chairperson, IWAI and Vice Chairman, IWAI received the award along with other senior officials.



*Chairperson, IWAI receiving Dainik Bhaskar's India Pride Award 2016-17 by
Hon'ble Minister of Communication (Independent Charge) &
Minister of State for Railways Shri Manoj Sinha*

- A PPP project under SOM mode for "Equipping, Operating and Managing Inland Waterway Transport at Garden Reach Terminal in Kolkata and Gaighat & Kalughat terminal in Patna" was awarded to consortium of M/s. Summit Alliance Port Ltd. and M/s Summit Power Ltd., under a Revenue Sharing model where the revenue share to IWAI from Summit Consortium will be 38.30%. The work has been awarded for a period of 30 years.

INLAND WATERWAYS AUTHORITY OF INDIA Cargo Movement for National Waterways-1, 2, & 3 Goa and Maharashtra Waterways from (2012-13 to 2016-17)

STRETCH	In Metric Tonnes	2012-13	2013-14	2014-15	2015-16	2016-17 Upto March 2017	Type of cargo moved
National Waterway-1 The Ganga & BP	MT	2716436	3349138	5050209	6237124	4617783.49	Cement, Fly Ash, Iron ore, iron Ore fines, Coal, Steel shed, Tyres, Iron fines, Iron Ingots, Galvanized Steel Plain Sheet, Stone Chips, Furnace oil, HF HSD, Lube oil, Boulder, Pulses, Aluminium block, Sand, Clips, Ship block Log, Pulses, Manganese Ore, Petroleum Code, Coking Coal, Rock Phosphate, Timber, Peas, Slag oil, Non cooking coal, ODC.
	In Lac. Tons	27.16	33.49	50.50	62.37	46.18	
	TKM	1511961380	1851232081	2263611062	2890156638	2459837281	
	BTM	1.512	1.851	2.26	2.680	2.460	
National Waterway-2 The Brahmaputra	MT	2426804	2475349	519722	602371	608819.23	Bamboo Products, Cement, Building Material, fertilizer, food grains, milk & other essential commodities.
	In Lac. Tons	24.27	24.75	5.20	6.02	6.09	
	TKM	58047828	59489247	5080000	12114556	11852255.61	
	BTM	0.058	0.059	0.0508	0.012	0.012	
National Waterway-3 West Coast Canal	MT	1236403	1066006	965246	1061041	1032338.5	Phosphoric Acid, Sulphur, Zinc, Furnace oil, Rock Phosphate, Various commodities in containers, Furnace oil-Bunkering, POL (BUNKERING TO SHIPS) Potable water, Lime shell with clay and other impurities, Liquid effluent.
	In Lac. Tons	12.36	10.66	9.65	10.61	10.33	
	TKM	13990516	11606503	9200000	10472868	10926878.75	
	BTM	0.014	0.012	0.0092	0.0105	0.0109	
Sub Total of National Waterways	MT	6379642	6890493	6535177	7900536	6259441.277	Iron Ore, Pig Iron / Slag, Coking coal, Thermal coal, Lime Stone, Raw Pet, Coke.
	In Lac. Tons	63.80	68.80	65.35	79.01	62.59	
	TKM	158399724	1922327831	2323611062	2712740652	2482616415	
	BTM	1.584	1.922	2.32	2.71	2.48	
Goa Waterways	MT	7582286	1003364	976987	4544537	15851400	Coal, Converter Transformer, Project Cargo, Bentonite, Cement (Loose), Cement Clinker, Coal Anthracite, Coke, Coking Coal, Crane, Dolomite, I.O.Fines, iron Ore Pellets, Lime Stone, Met Coke, PCL Coal, Pet Coke, Pyroxenite, Quartzite, Steel coil, TMT Bar, H.R.Coils, Bauxite, Coal in bulk, coil in bulk, Murate Potash, Calibrate Lump Iron Ore, Hot Briqueted Iron, Rock Phosphate, Sand, H.R.S. Plate, L.N.G., Fly Ash, Gypsum, Iron Ore, Matze, Max/Project Cargo, Molais, Steam coal, Sugar, Sulphur, Wheat, Bauxite In Bulk, EDC, Ethylene, V.C.M and others.
	In Lac. Tons	75.82	10.03	9.77	45.45	158.51	
	TKM	379113300	50168200	48849350	227226850	782570000	
	BTM	0.379	0.05	0.0484935	0.22722685	0.783	
Maharashtra Waterways	MT	9722819	10178956	22544335	28849378.47	33293253.51	TKM : Tonnes kilometer BTM : Billion Tonnes Kilometer
	In Lac. Tons	97.23	101.79	225.44	288.49	1.798	
	TKM	525032249	549663601	1217394090	1557866437	1797835690	
	BTM	0.525	0.55	1.217	1.558	1.798	
Grand Total	Metric Tonnes	23884727	19072813	30056499	41294451	55204095	TKM : Tonnes kilometer BTM : Billion Tonnes Kilometer
	In Lac. Tons	238.85	190.73	300.56	412.84	552.04	
	Million Tons	23.88	19.07	30.06	41.28	55.20	
	TKM	2468145273	2522159632	3589854502	4497837349	5063022105	
	BTM	2.468	2.522	3.590	4.498	5.063	

Note:

- These Figures are collected by IWA field offices from IWT operators.
- Average distance of 50 km. in Goa and 54 km in Mumbai Waterways considered.
- Provisional data subject to receipt of final report from IWT, Govt. of Assam. Data Extrapolated considering average of previous 3 years.

14. JALMARG VIKAS PROJECT

14.1 The Jal Marg Vikas Project (JMVP) is being implemented on the Haldia Varanasi stretch of National Waterway- 1 (NW-1) with the technical assistance and investment support of the World Bank to achieve the following objectives:

- i. Improve navigability of NW-1 by fairway development by providing an assured depth of at least 3 m throughout the corridor for at least 330 days in a year to make it navigable for comparatively larger vessels of 1,500-2000 Dead Weight Tonnage (DWT);
- ii. Create civil structural, logistics and communications interventions required for this project, which include construction/provision of terminals, jetties, navigational locks, channel marking systems, automated information techniques of DGPS, River Information System (RIS), night navigation aids, slipways, bunkering facilities, fairway development through river training and river conservancy works etc.
- iii. Create/improve integration opportunities with other surface transport modes, viz. road and rail, so as to improve the overall efficiency of the logistics chain in the region. This would entail improvement of the overall water transport management capability through institutional strengthening, capacity building and improving investment climate.

14.2 The Detailed Feasibility Study for Capacity Augmentation of NW-1 & Detailed Engineering for its Ancillary Works by the Joint venture of M/s Howe Engineering Projects (India) Pvt. Ltd., M/s Walling Ford Ltd. and M/s Rodie consultants Pvt. Ltd.; Environmental and Social Impact Assessment Study (ESIA), including Environment Management Plan (EMP) and Resettlement Action Plan (RAP) by the Joint Venture of M/s. EQMS India Pvt. Ltd., M/s. Abnaki Infrastructure Application & Integrated Development Pvt. Ltd. and IRG Systems South Asia Pvt. Ltd.; and IWT Sector Development Strategy and Market Development Study for capacity augmentation of NW-1 by the Joint Venture of M/s. Hamburg Port Consulting, M/s. Universal Transport Consulting, M/s IMS Imgenieurge sell chat Gmbh and M/s. Ramboll India, commissioned in 2014-15 to assess the project contours and interventions of JMVP, were completed during the period of report. The components of the project finalised on the basis of these studies, with an overall project cost of Rs. 5,369.18 crore, are the following:

- i. Construction of Multimodal Terminals at three locations: Varanasi, Sahibganj and Haldia.
- ii. Construction of intermodal terminals at two locations: Ghazipur and Kalughat.
- iii. Construction of a new Navigational Lock at Farakka, parallel to the existing lock.
- iv. Fairway development to provide the following LAD through dredging, river training works, bank protection works and re-engineering of river channel bends:

- a) LAD of 3 m and bottom channel width of 45 m on Haldia-Barh stretch;
 - b) LAD of 2.5 m and bottom channel width of 45 m on Barh-Ghazipur stretch.
 - c) LAD of 2.2 m and bottom channel width of 45 m on Ghazipur Varanasi stretch.
- v. Provision of Navigational Aids, such as channel markings, night navigational aids, including deployment of OPS, and river maps and charts for navigation.
 - vi. Provision of River Information System (RIS) and Vessel Tracking & Monitoring System (VTMS).
 - vii. Construction of five pairs of Ro-Ro Jetties at ten locations.
 - viii. Construction of Integrated Ship Repair and Maintenance Complexes at two locations.

14.3 The Public Investment Board in the Department of Expenditure, Ministry of Finance, Government of India appraised the proposal in March, 2017 and recommended implementation of the project at the estimated cost of Rs. 5,369.18 crore, including an IBRD loan component of US\$ 375 million, for approval by the Cabinet.

14.4 Negotiations for the IBRD loan of US\$ 375 million were held between the Government of India and the World Bank in March, 2017 and the terms of the loan agreement and project agreement were agreed upon.

14.5 In the meantime, four sub-projects of Jal Marg Vikas Project were taken up for execution during the period of report. The following significant achievements were made in respect of these sub-projects during the period of report:

(i) **Multimodal terminal at Ram Nagar, Varanasi:**

- Contract for Phase-I (A) of the terminal was awarded to the M/s Afcons Infrastructure Ltd. at a cost of Rs. 169.59 crore on 13th May, 2016.
- The Hon'ble Minister for Shipping, Road Transport and Highways laid the foundation stone of the terminal on 12th August, 2016.
- The Contractor carried out 35 % of the construction works.
- Out of 1.415 ha requisitioned for road connectivity of the terminal with NH-7, 0.436 ha of land was registered in the name of IWAI.
- Out of 27.754 ha of land requisitioned for Phase II of the terminal, 1.415 ha land was registered in the name of IWAI and consent for sale in respect of another 8.934 ha of land was received from the land owners.

- Rail alignment between the proposed terminal and Jeonathpur railway station on the proposed Eastern Dedicated Freight Corridor (EDFC) prepared by the Consultants was approved 'in principle' by the North Central Railway, Allahabad.
- "In-principle" approval for navigation of vessels over the Kashi Turtle Sanctuary was received from the Uttar Pradesh State Board for Wildlife.

(ii) Multimodal Terminal at Sahibganj :

- Out of 191.13 acres of land requisitioned for the main terminal and for road connectivity, 176.425 acres of land was transferred to IWA by the District Administration, Sahibganj.
- Contract for construction of Phase-I of the terminal at a cost of Rs. 280.90 crore was awarded to the M/s L & T Ltd. on 27.10.2016 and the contractor commenced the construction work.

(iii) Multimodal Terminal at Haldia :

- The terminal is being constructed on 61 acres of land in the Haldia Dock Complex taken on 30 year lease from the Kolkata Port Trust.
- Tendering process for Phase-I of the Terminal was completed and LOA issued to the successful bidder on 27.12.2016.
- Ammonia Pipe Line of M/s Tata Chemicals passing through the project site was shifted.
- The West Bengal State Coastal Zone Management Authority (WBCZMA) recommended grant of CRZ clearance for the terminal on 17.01.2017 to the Ministry of EF&CC for consideration.

(iv) New Navigational Lock at Farakka

- The new navigational lock at Farakka is being constructed on 14.86 hectares of land on the 39 km Feeder Canal at Farakka procured by IWA from the Farakka Barrage Project.
- The contract for construction of the new navigational Lock was awarded to the successful bidder at a value of Rs. 359.19 crore on 24th Nov'2016. The contractor has commenced the construction works.

14.6 Action was initiated during the period under report for implementation of the remaining interventions as per details given below:

- Fairway development:** Action to revise the Dredging Management Plan and Strategy for NW-1 was initiated. Process of preparation of DPRs for performance based maintenance contract for different stretches of the fairway was initiated.
- Aids to Navigation:** Studies and investigations for preparation of DPR were taken up.
- Intermodal terminal at Kalughat:** The Terminal is being planned to handle mostly container traffic. 5.159 ha of land for the terminal was identified. The process for acquisition of land was initiated. Studies

and investigations for preparation of DPR were taken up.

- iv. **Intermodal terminal at Ghazipur:** Terminal is being planned for LNG bunkering. 8.917 ha of land for the terminal was identified and requisition for its acquisition filed with the District Administration, Ghazipur on 31.03.2017. Studies and investigations for preparation of DPR were taken up.
- v. **Ro-Ro terminals:** Locations for Five pairs of Ro-Ro terminals were identified. These are: Rajmahal and Manikchak; Samdaghat and Manihari; Kahalgaon and Tintanga; Mahnar and Bakhtiyarpur and Buxar and Saraikota. Studies and investigations for preparation of DPR were taken up. Process for filing requisition for acquisition of land was initiated.
- vi. **Integrated Vessel Repair & Maintenance Complexes:** Feasibility studies were taken up.

14.7 The following consultancies/Studies were also commissioned under JMVP during the period under report:

- i. Consultancy for Support Services for Design of Inland vessels was commissioned on 19.08.2016.
- ii. Consultancy services for planning and implementation of commercialization on NW-1 was commissioned on 31.01.2017.
- iii. Project preparatory and definition study for development of ferry services on NW-I was commissioned on 21.12.2016. IWAI would provide the technical support, while the State Governments would construct the ferry crossings.
- iv. Communications Needs Assessment Study for Jal Marg Vikas Project for capacity augmentation of navigational infrastructure on National Waterway-1 on 05.01.2017.

Annex- 1**111 - NATIONAL WATERWAYS LIST**

No. of National Waterways	Name of National Waterways	Length in Km	State
1.	Ganga – Bhagirathi - Hooghly	1620	UP, Bihar, Jharkhand, West Bengal
2.	Brahmaputra	891	Assam
3.	West Coast Canal alongwith Champakara & Udyogmandal Canal	365	Kerala
4.	Kakinada Puducherry Canal alongwith Godavari & Krishna rivers	2890	Tamil Nadu, Andhra Pradesh, Telanagana
5.	East Coast Canal alongwith Brahmani & Mahanadi Delta	588	Odisha, West Bengal
6.	Aai	71	Assam
7.	Ajoy (Ajay)	96	West Bengal
8.	Alappuzha- Changanassery Canal	28	Kerala
9.	Alappuzha- Kottayam- Athirampuzha Canal	38	Kerala
10.	Amba River	45	Maharashtra
11.	Arunawati/ Aran River	98	Maharashtra
12.	Asi	5.5	UP
13.	AVM Canal (Kanyakumari to Kollam)	11	Tamil Nadu
14.	Baitarni River	49	Odisha
15.	Bakreswar/ Mayurakshi River	137	West Bengal
16.	Barak	121	Assam
17.	Beas	191	HP & Punjab
18.	Beki	73	Assam
19.	Betwa	68	UP

No. of National Waterways	Name of National Waterways	Length in Km	State
20.	Bhavani River	94	Tamil Nadu
21.	Bheema	139	Telangana & Karnataka
22.	Birupa/ BadiGenguti/ Brahmani River System	156	Odisha
23.	BudhaBalanga	56	Odisha
24.	Chambal	60	UP
25	Chapora	33	Goa
26	Chenab	53	J&K & Punjab
27	Cumberjua	17	Goa
28	Dabhol Creek/ Vasishti river	45	Maharashtra
29	Damodar	135	West Bengal
30	Dehing	114	Assam
31	Dhansiri/ Chathe	110	Assam
32	Dikhu	63	Assam
33	Doyans	61	Assam
34	DVC Canal	130	West Bengal
35	Dwarekeswar	113	West Bengal
36	Dwarka	121	West Bengal
37	Gandak	300	Bihar & UP
38	Gangadhar	62	Assam & West Bengal
39	Ganol River	49	Meghalaya
40	Ghaghra River	340	Bihar & UP
41	Ghataprabha	112	Karnataka
42	Gomti	518	UP
43	Gurupur	10	Karnataka
44	Ichamati	64	West Bengal
45	Indira Gandhi Canal	650	Haryana, Punjab & Rajasthan
46	Indus	35	J&K
47	Jalangi	131	West Bengal
48	Jawai-Luni river & Rann of	590	Rajasthan & Gujarat

No. of National Waterways	Name of National Waterways	Length in Km	State
49	Jhelum	110	J&K
50	Jinjiram River	43	Meghalaya & Assam
51	Kabini	23	Karnataka
52	Kali	54	Karnataka
53	Kalyan – Thane – Mumbai Waterway, Vasai creek & Ulhas river	145	Maharashtra
54	Karamnasa	86	UP & Bihar
55	Kaveri/ Kollidam river	364	Tamil Nadu
56	Kherkai	23	Jharkhand
57	Kopili River	46	Assam
58	Koshi	236	Bihar
59	Kottayam- Vaikom Canal	28	Kerala
60	Kumari	77	West Bengal
61	Kynshi River	28	Meghalaya
62	Lohit	100	Assam
63	Luni	327	Rajasthan
64	Mahanadi	425	Odisha
65	Mahananda	81	West Bengal
66	Mahi	248	Gujarat
67	Malaprabha	94	Karnataka
68	Mandovi	41	Goa
69	Manimutharu	5	Tamil Nadu
70	Manjara	242	Maharashtra, &Telangana
71	Mapusa/ Moide river	27	Goa
72	Nag	60	Maharashtra
73	Narmada	227	Gujarat
74	Netravathi	78	Karnataka
75	Palar	141	Tamil Nadu

No. of National Waterways	Name of National Waterways	Length in Km	State
76	Panchagangavali (Panchagangoli)	23	Karnataka
77	Pazhyar	20	Tamil Nadu
78	Penganga/ Wardha	265	Maharashtra & Telangana
79	Pennar	29	Andhra Pradesh
80	Ponniyar	125	Tamil Nadu
81	Punpun	35	Bihar
82	Puthimari	72	Assam
83	Rajpuri creek	31	Maharashtra
84	Ravi	42	HP & J&K
85	Revdanda Creek/ Kundalika river	31	Maharashtra
86	Rupnarayan River	72	West Bengal
87	Sabarmati	212	Gujarat
88	Sal	14	Goa
89	Savitri River (Bankot creek)	46	Maharashtra
90	Sharavati River	29	Karnataka
91	Shastri River/ Jaigad creek	52	Maharashtra
92	Silabati	26	West Bengal
93	Simsang River	62	Meghalaya
94	Sone	160	Bihar
95	Subansiri	111	Assam
96	Subarnrekha River	314	Jharkhand, West Bengal & Odisha
97	Sunderbans Waterway	654	West Bengal
	Bidya river		West Bengal
	Chhota Kalagachi (Chhoto Kalergachi) river		West Bengal
	Gomar		West Bengal
	Haribhanga river		West Bengal
	Hogla (Hogal) – Pathankhali		West Bengal

No. of National Waterways	Name of National Waterways	Length in Km	State
	Kalindi (Kalandi) river		West Bengal
	Katakhali river		West Bengal
	Matla river		West Bengal
	Muri Ganga (Baratala) river		West Bengal
	Raimangal river		West Bengal
	Sahibkhali (Sahebkhali) river		West Bengal
	Saptamukhi river		West Bengal
	Thakurran river		West Bengal
98	Sutlej	377	Punjab & HP
99	Tamaraparani	64	Tamil Nadu
100	Tapi	436	Maharashtra & Gujarat
101	Tizu / Zungki Rivers	42	Nagaland
102	Tlawng (Dhaleswari)	86	Mizoram
103	Tons	73	UP
104	Tungabhadra	230	Telangana, Karnataka & AP
105	Udayavara	16	Karnataka
106	Umnogot (Dawki) River	20	Meghalaya
107	Vaigai	45	Tamil Nadu
108	Varuna River	53	UP
109	Wainganga / Pranahita River	164	Maharashtra & Telangana
110	Yamuna	1089	Haryana, UP & Delhi
111	Zuari	50	Goa

15. FINANCIAL PERFORMANCE

A. INCOME & EXPENDITURE

During the financial year 2016-17, a sum of Rs.35841.00 lakh was received from the Government of India, Ministry of Shipping, Rs.34,000.00 lakh Fund raised through Extra Budgetary Resources (EBR) and a sum of Rs.1647.75 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 indicated below:-

Sl. No.	Name of the scheme	(Rs. in Lakh)	
		Previous Year 2015-16	Current Year 2016-17
1	Technical Studies	98.50	-
2	National Waterway No – 1		
(i)	River Conservancy Works	3519.70	3857.63
(ii)	Construction of Cargo berth/ Terminals	99.73	6537.45
(iii)	Procurement of steel Pontoon	28.04	-
(iv)	Installation of DGPS Station	61.83	-
(v)	Installation of RIS System	664.27	680.50
(vi)	NINI	236.67	228.80
(vii)	IWT Promotion Activities		217.95
	Sub-Total	4610.24	11522.33
3	National Waterway No – 2		
(i)	River Conservancy Works	1436.31	1652.24
(ii)	Construction & Maintenance of Terminals	467.49	36.95
(iii)	Construction of RO-RO Terminal	2182.00	48.48
(iv)	Construction of RO-RO Vessels	327.12	877.08
(v)	Construction of cargo vessels	-	1226.70
(vi)	Bank protection work	546.20	2168.99
(vii)	Construction of work boats	2595.54	10.89
(viii)	Construction of Slipway at Pandu	253.79	255.86
(ix)	Development of Protocol route	130.83	151.50
(x)	Land for terminal	-	779.68
(xi)	O&M of cargo vessels and IWT promotion activities	-	179.10
(xii)	TEF/DPR/CRZ/Studies for NWs (NER)	-	79.73
	Sub-Total	7939.28	7467.20
4	National Waterway No. – 3		
(i)	River Conservancy works	740.88	701.00
(ii)	Construction and Maintenance of Terminals	90.13	132.04
(iii)	Procurement of survey equipment	0.72	-
	Sub-Total	831.73	833.04
5	National Waterway No. – 4		
(i)	Development work	256.97	95.78
	Sub-Total	256.97	95.78
6	National Waterway No. – 5		
(i)	Development work	385.14	2592.32
(ii)	Procurement of steel Pontoon	-	102.83
	Sub-Total	385.14	2695.15

Sl. No.	Name of the scheme	(Rs. in Lakh)	
		Expenditure	
		Previous Year 2015-16	Current Year 2016-17
7	Jal Marg Vikas Project		
(i)	Lease land Haldia	3962.00	-
(ii)	Consultancy charges and PMU expenses	1640.95	2412.47
(iii)	Terminal Facilities Expenses	70.78	150.46
(iv)	Acquisition of Land-Sahebganj	7699.87	8558.21
(v)	Construction of Multimodal – Sahebganj	-	3540.64
(vi)	Construction of Multimodal – Varanasi	-	3130.26
(vi)	Construction of New Navigational Lock Farakka	-	4281.76
(vii)	Acquisition of Land Varanasi	224.40	7578.90
(viii)	Procurement of Survey cum Inspection Vessels – Turnkey	546.07	546.07
	Sub-Total	14144.07	30198.77
8	I.T. activities expenses	23.09	42.36
9	IWT Development Fund	178.85	-
10	Establishment	3389.65	5315.94
11	Project Management Consultancy	226.39	383.87
12	PPP Project Exp.	183.05	-
13	New National Waterways	145.74	965.23
	Sub-Total	4146.77	6707.40
	Grand Total	32412.70	59519.67

16. Implementation of Official Language Policy of Union in the Authority : 2016-17

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 (T.O.L.I.C.), 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., 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., 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., 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'.

17. Personnel and Administration

As on 31-03-2017, 30 Officers and 60 staff at the head office and 51 Officers and 162 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

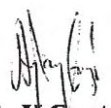
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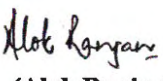
(NUTAN GUHA BISWAS)
CHAIRPERSON

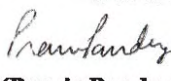
INLAND WATERWAYS AUTHORITY OF INDIA

BALANCE SHEET AS ON 31.03.2017

PARTICULARS	SCHEDULES	CURRENT YEAR	PREVIOUS YEAR
I. SOURCES OF FUND			
(i) CORPUS/CAPITAL	1		
(a) CAPITAL U/S 11 (i) (c)		9,437,244	9,437,244
(b) IWAI FUND U/S 19		9,034,956,204	7,882,246,328
(ii) RESERVE & SURPLUS	2	931,900	7,587,701
(iii) BORROWINGS	3		
(a) SECURED LOANS			
(b) UNSECURED LOANS		3,400,000,000	-
(iv) CURRENT LIABILITIES & PROVISIONS			
(a) SUNDRY CREDITORS	4	-	
(b) OTHER CURRENT LIABILITIES	5	1,328,185,581	745,654,762
(c) PROVISIONS	6	246,124,526	483,237,198
TOTAL		14,019,635,455	9,128,163,233
II. APPLICATION OF FUND			
(i) FIXED ASSETS	7		
(a) TANGIBLE ASSETS GROSS BLOCK		10,467,131,923	8,256,717,086
LESS: DEPRECIATION		2,368,874,892	2,153,406,174
		8,098,257,031	6,103,310,912
(b) INTANGIBLE ASSETS GROSS BLOCK	7	15,744,171	12,679,734
LESS: DEPRECIATION		11,198,158	7,037,979
		4,546,013	5,641,755
(c) CAPITAL WORK - IN - PROGRESS		1,279,224,451	592,790,739
(d) INTANGIBLE ASSETS UNDER DEVELOPMENT		-	-
(ii) INVESTMENTS	8	75,009,494	75,009,494
(iii) CURRENT ASSETS, LOANS AND ADVANCES			
(a) INVENTORIES	9	42,934,790	45,345,796
(b) TRADE RECEIVABLE	10	38,622,827	30,492,298
(c) CASH AND CASH EQUIVALENTS	11	1,806,358,717	454,072,856
(d) LOAN AND ADVANCES	12	2,516,479,166	1,674,472,760
(e) OTHER CURRENT ASSETS	13	158,202,966	147,026,623
TOTAL		14,019,635,455	9,128,163,233
Note:			
(A) Notes to accounts form an integral part of the financial statements	17		
(B) Significant Accounting Policy	18	-	-


(A. K. Gupta)
 Chief Accounts Officer


(Alok Ranjan)
 Member (Finance)


(Pravir Pandey)
 Vice-Chairman

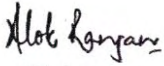

(Nutan Guha Biswas)
 Chairperson

For and on behalf of the Authority

INLAND WATERWAYS AUTHORITY OF INDIA
INCOME & EXPENDITURE ACCOUNT AS ON 31.03.2017

PARTICULARS	SCHEDULES	CURRENT YEAR	PREVIOUS YEAR
I. INCOME			
(a) REVENUE GRANTS/SUBSIDIES			
- FROM CENTRAL GOVERNMENT		760,100,000	263,900,000
- FROM STATE GOVERNMENT(S)			
- INTERNATIONAL ORGANIZATIONS			
- OTHERS (SPECIFY)			
(b) TRANSFERRED FROM CAPITAL GRANTS		212,330,638	221,221,311
(c) TRANSFERRED FROM IWAI FUND			
(d) OTHER INCOME (NATURE TO BE SPECIFIED)			
TOTAL INCOME (A)		972,430,638	485,121,311
II. EXPENDITURE			
(a) OPERATIONAL & MAINTENANCE EXPENSES	14	1,675,675,869	970,142,217
(b) PERSONNEL & ADMINISTRATIVE EXPENSES	15	527,943,753	376,702,283
(c) FINANCE CHARGE	16	145,942	88,659
(d) DEPRECIATION	7	218,986,439	221,970,108
(e) PRIOR PERIOD ITEMS		14,651,463	2,484,646
(f) SUBSIDY			
TOTAL EXPENDITURE (B)		2,437,403,466	1,571,387,913
INCOME OVER EXPENDITURE (A-B)		(1,464,972,828)	(1,086,266,602)
LESS/ADD: TRANSFER TO/FROM CAPITAL RESERVE		6,655,801	748,797
LESS/ADD: TRANSFER TO/FROM GENERAL RESERVE			
NET SURPLUS & DEFICIT TRANSFERRED TO IWAI FUND			
		(1,458,317,027)	(1,085,517,805)
Note:			
(A) Notes to accounts forms an integral part of the financial statements	17		
(B) Significant Accounting Policy	18		


(A. K. Gupta)
Chief Accounts Officer


(Alok Ranjan)
Member (Finance)


(Pravir Pandey)
Vice-Chairman


(Nutan Guha Biswas)
Chairperson

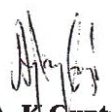
For and on behalf of the Authority

INLAND WATERWAYS AUTHORITY OF INDIA
RECEIPTS AND PAYMENTS ACCOUNTS FOR THE YEAR ENDED 31st MARCH 2017

PARTICULARS	CURRENT YEAR	PREVIOUS YEAR
RECEIPTS		
(I) OPENING BALANCE		
(i) CASH IN HAND	-	
- INR	38,710	49,254
- FOREIGN CURRENCY	-	-
(ii) CASH WITH BANK	(130,807,179)	(28,543,355)
(iii) SHORT TERM DEPOSIT WITH BANK	584,841,326	364,861,000
(II) GRANTS RECEIVED		
(i) GRANTS FROM GOI	3,584,100,000	3,222,903,000
(ii) OTHERS NATURE TO BE SPECIFIED	-	
(III) RECEIPTS FROM BORROWINGS		
(i) RECEIPTS FROM BOND/SECURITIES	3,400,000,000	
(ii) RECEIPTS FROM LOAN	-	
(iii) OTHERS	-	
(IV) INTERNAL RECEIPTS		
(i) RENT RECEIVED	25,601,649	26,145,951
(ii) OTHER INTERNAL RECEIPTS	-	
- INTEREST ON STD	79,234,502	50,762,525
- INTEREST ON STAFF ADVANCE	190,290	205,000
- INTEREST ON MOB. ADVANCE	-	-
- OTHER INTEREST RECEIVED	-	-
- INCOME FROM INVESTMENTS	-	116,264
- CONSULTANCY CHARGES	-	-
- WATERWAY USER CHARGES	599,744	1,016,899
- BERTHING CHARGES	50,315	4,989,336
- TOWAGE CHARGES	-	-
- PILOTAGE CHARGES	440,492	14,390
- TERMINAL CHARGES	37,322	3,202
- TRANSIT SHED CHARGES	-	873,110
- MOVEMENT OF OVER DIMENSIONAL CHARGES (ODC)	1,322,645	3,690,323
- CRANE (INCLUDING PONTOON CRANE) HIRE CHARGES	247,981	215,460
- CONTAINER CRANE CHARGES	-	-
- FORK LIFT CHARGES	100,000	-
- ELECTRIC SUPPLY TO THE VESSEL	-	10,463
- WHARFAGE	-	29,146
- DEMURRAAGE	-	-
- SALE OF TENDER FORM	1,113,663	1,101,500
- SALE OF NAVIGATION CHART	122,660	95,938
- RECEIPTS ON SALE OF FIXED ASSETS	-	798,135
- MISC. RECEIPTS	788,255	1,712,869
- PROTOCOL FEES	1,200	1,055,155
- VESSEL HIRE CHARGES	1,391,186	7,317,670
- UNIFORM	-	486,400
- HOSTEL ETC.	1,202,850	482,100
- TUITION FEES	5,676,700	5,569,200
- OTHER INCOME (NATURE TO BE SPECIFIED)	-	-

PARTICULARS	CURRENT YEAR	PREVIOUS YEAR
(V) OTHER RECEIPTS	-	
(i) SECURITY DEPOSIT RECEIVED	13,593,530	17,492,285
(ii) EARNEST MONEY RECEIVED	107,161,925	157,710,393
(iii) RECOVERY OF ADVANCES	695,943	425,330
(iv) OTHERS	-	-
RECOVERY OF CLAIMS	11,503,371	10,569,166
RECEIPTS FROM BRANCH & DIVISION	3,108,802,991	1,233,249,918
CHIS CONTRIBUTION	346,000	243,000
RECEIVED FROM LIC	266,509	170,557
INCOME TAX REFUND	-	6,295,680
RECEIVED FROM NPS TRUST	2,262,062	
OTHER RECOVERIES	4,355	31,315
GPF CONTRIBUTION	9,435,455	13,833,106
ADVANCE RECEIPT FROM CUSTOMER	50,098,246	4,047,781
RECEIPTS FROM DEBTORS		25,817,593
TOTAL	10,860,464,697	5,135,847,059
PAYMENTS		
(I) EXPENDITURE		
(i) OPERATIONAL AND MAINTENANCE EXPENSE	48,622,360	49,636,510
(ii) PERSONNEL EXPENSES	137,963,048	117,252,258
(iii) FINANCE CHARGES	763,636	99,980
(iv) PRIOR PERIOD EXPENSES	296,796	945,922
(II) REPAYMENTS OF BORROWINGS		
(i) REPAYMENTS OF BOND/SECURITIES	-	
(ii) REPAYMENTS OF LOAN	-	
(III) INVESTMENTS & DEPOSIT MADE	-	
(IV) PURCHASE OF FIXED ASSETS	162,240,520	35,465,284
(V) PAYMENTS OF LOAN & ADVANCE		
(i) HOUSE BUILDING ADVANCE	224,379	393,368
(ii) DEPARTMENTAL ADVANCE	5,071,271	6,265,959
(iii) TRAVELLING ADVANCE	3,895,824	3,473,953
(iv) LTC ADVANCE	863,688	1,770,353
(v) MEDICAL ADVANCE TO STAFF	1,403,568	341,820
(vi) PC ADVANCE	260,000	-
(vii) OTHER ADVANCE TO STAFF	753,475	726,250
(viii) ADVANCE TO SUPPLIERS & CONTRACTORS	250,838,906	581,465,336
(ix) PREPAID EXPENSES	606,863	2,341,247
(VI) OTHER PAYMENTS		
(i) REFUND OF SECURITY DEPOSIT	116,914,326	5,926,253
(ii) REFUND OF EARNEST MONEY	77,796,418	189,836,049
(iii) SECURITY DEPOSIT PAID	790,506	561,558
(iv) DUTIES AND TAXES PAID	167,869,426	51,190,965
(v) PAYMENT TO BRANCH & DIVISION	4,831,011,462	2,337,817,181
(vi) PAYMENT TO MINISTRY OF SHIPPING (INTERNAL RECEIPTS)	124,912,196	91,387,222
(vii) PAYMENT TO WEST CENTRAL RAILWAY TOWARDS RECOVERY OF ADVANCE	-	-
(viii) PAYMENTS OF PENSION CONTRIBUTION	480,901,436	17,642,113
(ix) PAYMENTS ON BEHALF OF THIRD PARTIES	5,731,875	23,727,481
(x) GPF CONTRIBUTION-IWAI	40,363,533	40,239,395
(xi) GPF ADVANCE RECOVERY	1,143,550	721,200
(xii) PAYMENT OF WITHHELD TAXES	71,704,885	14,676,724
(xiii) PAYMENT TO CONTRACTOR & SUPPLIER	2,512,647,578	1,102,750,340
(xiv) PAYMENTS OF BOND RELATED EXPENSES	2,526,068	
(xv) PAYMENTS OF VARIOUS RECOVERIES TO RELATED DEPARTMENTS	5,988,387	5,119,482

PARTICULARS	CURRENT YEAR	PREVIOUS YEAR
(VII) CLOSING BALANCE		
(i) CASH IN HAND		
- INR	37,692	38,710
- FOREIGN CURRENCY	-	-
(ii) CASH WITH BANK	120,200,460	(130,807,179)
(iii) SHORT TERM DEPOSIT WITH BANK	1,581,120,565	584,841,326
(iv) REMMITANCE IN TRANSIT	105,000,000	
TOTAL	10,860,464,697	5,135,847,059


(A. K. Gupta)
Chief Accounts Officer


(Alok Ranjan)
Member (Finance)

For and on behalf of the Authority

(Pravir Pandey)
Vice-Chairman


(Nutan Guha Biswas)
Chairperson

OTHER SCHEDULES
&
AUDIT REPORT

INLAND WATERWAYS AUTHORITY OF INDIA SCHEDULES FORMING PART OF THE BALANCE SHEET AS ON 31.03.2017

PARTICULARS		CURRENT YEAR	PREVIOUS YEAR
SCHEDULE - 1 "CAPITAL"			
1	CAPITAL U/S II(i)(c)	9,437,244	9,437,244
2	IWAI FUND U/S 19		
	OPENING BALANCE OF FUND	7,882,246,328	8,584,869,135
ADD:	CAPITAL GRANTS RECEIVED FROM GOI	2,824,000,000	2,955,200,000
ADD:	LOAN RECEIVED FROM GOI		
ADD:	INTERNAL RECEIPTS (AS PER LIST)	164,775,141	124,912,196
ADD:	OTHER GRANTS RECEIVED		
LESS:	AMOUNT PAYABLE TO GOI	(164,775,141)	(124,912,196)
LESS:	PREVIOUS DEFICIT	-	(413,417,748)
LESS:	TRANSFERRED TO INCOME & EXPENDITURE ACCOUNTS	(212,330,638)	(221,221,311)
ADD/LESS:	SURPLUS/DEFICIT TRANSFERRED FROM INCOME & EXPENDITURE ACCOUNTS	(1,458,317,027)	(1,085,517,805)
ADD/LESS:	ADJUSTMENT OF DEPRECIATION	(642,459)	
LESS:	OPENING REPLACEMENT RESERVE		(1,937,665,943)
	CLOSING BALANCE OF IWAI FUND	9,034,956,204	7,882,246,328
	TOTAL	9,044,393,448	7,891,683,572
SCHEDULE - 2 "RESERVES & SURPLUS"			
1	CAPITAL RESERVES		
	OPENING BALANCE	7,587,701	8,225,858
	ADD: ADDITION DURING THE YEAR	-	110,640
	LESS: DEDUCTION DURING THE YEAR	(6,655,801)	(748,797)
		931,900	7,587,701
2	GENERAL RESERVE		
	OPENING BALANCE	-	-
	ADD/LESS: ADDITION/DEDUCTION DURING THE YEAR	-	-
3	ANY OTHER RESERVES/FUND (NATURE TO BE SPECIFIED)		
	OPENING BALANCE	-	-
	ADD/LESS: ADDITION/DEDUCTION DURING THE YEAR	-	-
	TOTAL	931,900	7,587,701
SCHEDULE - 3 "BORROWINGS"			
A	SECURED		
1	LOANS FROM GOVT. OF INDIA	-	-
2	LOANS FROM BANK / FINANCIAL INSTITUTIONS	-	-
3	BONDS/DEBENTURES	-	-
4	OTHER LOANS	-	-
B	UNSECURED		
1	LOANS FROM GOVT. OF INDIA	-	-
2	LOANS FROM BANK / FINANCIAL INSTITUTIONS	-	-
3	BONDS/DEBENTURES	3,400,000,000	-
4	OTHER LOANS	-	-
	TOTAL	3,400,000,000	-
SCHEDULE - 4 "SUNDRY CREDITORS"			
1	SUPPLIERS & CONTRACTORS	-	-
2	PROFESSIONALS	-	-
3	OTHERS	-	-
	TOTAL	-	-
SCHEDULE - 5 "OTHER CURRENT LIABILITIES"			
1	SECURITY DEPOSIT RECEIVED	188,546,065	133,096,462
2	EARNEST MONEY RECEIVED	14,926,809	5,664,476
3	MARGIN MONEY RECEIVED	-	-
4	SERVICE TAX & OTHER TAXES WITHHELD	76,971,903	
5	LIABILITIES FOR EXPENSES	819,952,906	446,503,803
6	DUTIES AND TAXES PAYABLE	15,405,432	9,562,550
7	INTERNAL RECEIPT PAYABLE TO GOI	164,775,141	124,912,197
8	ADVANCE RECEIVED FROM CUSTOMERS	21,698,314	25,577,128
9	RETENTION MONEY		
10	OTHERS	25,909,011	338,146
	TOTAL	1,328,185,581	745,654,762

Annual Report 2016-17



PARTICULARS		CURRENT YEAR	PREVIOUS YEAR
SCHEDULE - 6 "PROVISIONS"			
1	PROVISION FOR GRATUITY	27,025,525	498,564
2	PROVISION FOR LEAVE SALARY & PENSION CONTRIBUTION (FOR EMPLOYEES ON DEPUTATION)	3,883,295	978,215
3	PROVISION FOR PENSION CONTRIBUTION	182,471,816	480,866,088
4	PROVISION FOR LEAVE ENCASHMENT	19,752,608	-
5	PROVISION FOR NEW PENSION SCHEME	-	-
6	PROVISION FOR BONUS	1,666,587	894,331
7	PROVISION FOR DUTIES AND TAXES	-	-
8	PROVISION FOR INTEREST ON BONDS/DEBENTURES	-	-
9	OTHER PROVISIONS	11,324,695	-
	TOTAL	246,124,526	483,237,198
SCHEDULE - 8 "INVESTMENT"			
(a)	LONG TERM INVESTMENTS		
1	SUBSIDIARIES AND JOINT VENTURES	-	-
2(i)	OTHER INVESTMENTS-Govt. Security	74,709,494	74,709,494
2(ii)	OTHER INVESTMENT-OTHER THAN GOVT. SECURITY	300,000	300,000
	TOTAL (A)	75,009,494	75,009,494
(b)	SHORT TERM INVESTMENTS		
1	SUBSIDIARIES AND JOINT VENTURES	-	-
2	OTHER INVESTMENTS	-	-
	TOTAL (B)	-	-
	GRAND TOTAL (A+B)	75,009,494	75,009,494
SCHEDULE - 9 "INVENTORIES"			
1	MARINE SPARE PARTS	29,111,898	30,843,944
2	PERMANENT STORES	289,149	289,149
3	CONSUMABLES & STATIONERY	600,873	844,605
4	POL STOCK	12,635,730	12,772,687
5	OTHERS	297,140	595,411
	TOTAL	42,934,790	45,345,796
SCHEDULE - 10 "TRADE RECEIVABLE"			
1	MORE THAN SIX MONTHS	19,015,409	6,431,082
2	OTHERS (i.e. LESS THAN SIX MONTHS)	19,607,418	24,061,216
	TOTAL	38,622,827	30,492,298
SCHEDULE - 11 "CASH AND CASH EQUIVALENTS"			
1	CASH IN - HAND		
	- INR	37,692	38,710
	- FOREIGN CURRENCY	-	-
2	STAMP IN-HAND	-	-
3	CASH WITH SCHEDULE BANKS	120,200,460	(130,807,180)
4	SHORT TERM DEPOSIT WITH BANKS	1,581,120,565	584,841,326
5	REMITTANCE IN TRANSIT	105,000,000	-
	TOTAL	1,806,358,717	454,072,856
SCHEDULE - 12 "LOAN AND ADVANCE"			
1	ADVANCE TO CONTRACTORS & SUPPLIERS	-	-
	- CAPITAL ADVANCE	2,433,419,831	1,612,315,820
	- REVENUE ADVANCE	24,586,385	15,381,103
2	ADVANCE TO STAFF	4,801,330	5,534,852
3	DEPARTMENTAL ADVANCE	542,098	273,665
4	SECURITY DEPOSITS PAID	35,125,635	35,072,182
5	ADVANCE DUTIES AND TAXES PAID	11,749,533	3,591,880
6	INTEREST ACCRUED & DUE	6,254,354	2,303,258
7	OTHERS	-	-
	TOTAL	2,516,479,166	1,674,472,760
SCHEDULE - 13 "OTHER CURRENT ASSETS"			
1	PREPAID EXPENSES	34,357,046	33,049,338
2	CLAIMS RECOVERABLE	123,845,920	113,977,285
3	OTHERS	-	-
	TOTAL	158,202,966	147,026,623


(A. K. Gupta)
Chief Accounts Officer


(Alok Ranjan)
Member (Finance)


(Pravir Pandey)
Vice-Chairman

For and on behalf of the Authority


(Nutan Guha Biswas)
Chairperson

INLAND WATERWAYS SCHEDULE OF FIXED

SCHEDULE - 7

Particulars	Gross Block			
	As on 01.04.2016	Additions	Deductions	As on 31.03.2017
(A) Tangible Assets				
Land & Building				
Building	1,212,787,758	36,237,326	(372,040)	1,248,653,044
Car Parking	23,392,491	-	-	23,392,491
Land (Others)	265,626,705	1,929,826,034	-	2,195,452,739
Land (Wedding)	45,767,583	-	(9,284,593)	36,482,990
Leasehold land	426,228,909	-	(25,492,661)	400,736,248
Residence Quarter	30,732,753	124,250	-	30,857,003
Temporary Structure	11,237,914	170,854	-	11,408,768
Total(i)	2,015,774,113	1,966,358,464	(35,149,294)	3,946,983,283
	-	0	-	-
Terminals				
Civil structure	1,755,594,732	86,872,733	-	1,842,467,465
Land	192,334,530	3,040,593	-	195,375,123
Total (ii)	1,947,929,262	89,913,326	-	2,037,842,588
Bridges, Culverts, Bunkers etc				
Buoys	54,467	-	-	54,467
Foot Over Bridge Thottappally	2,188,615	-	-	2,188,615
Tower	15,895,321	-	-	15,895,321
Total(iii)	18,138,403	-	-	18,138,403
Plant & Machinery				
Air Conditioners	24,689,694	373,300	(27,395)	25,035,599
DGP Station with Civil structure	64,781,168	9,536,935	-	74,318,103
Fire Mock up Equipments	5,237,144	-	-	5,237,144
Fork Lifts	6,370,925	-	-	6,370,925
Generator Sets	9,281,504	27,460	-	9,308,964
Hydraulic Crane	160,241,797	-	-	160,241,797
Night Navigation Equipments	109,318,077	3,964,853	(817,220)	112,465,710
Passenger Lift	4,612,400	-	-	4,612,400
RIS station with Civil Structure	160,368,112	39,751,027	-	200,119,139
Survey Equipments / Instruments	89,564,887	14,355,422	605,290	104,525,599
Workshop Equipments	402,778	-	-	402,778
Total(iv)	634,868,486	68,008,997	(239,325)	702,638,158
Furniture & Fixtures				
Furniture & Fixtures	23,074,464	1,656,453	-	24,730,917
Hostel & Kitchen	606,957	8,720	-	615,677
Total(v)	23,681,421	1,665,173	-	25,346,594
Motor Vehicles				
Cycles	7,356	-	-	7,356
Motor Vehicles	5,605,228	834,019	-	6,439,247
Total (vi)	5,612,584	834,019	-	6,446,603
Ships & Vessels				
Barges and Pontoons	339,035,298	-	-	339,035,298
Speed Boats	12,286,496	-	-	12,286,496
Vessel Dredging Unit	2,653,680,064	1,088,960	-	2,654,769,024
Vessels Ordinary	512,762,983	101,863,352	-	614,626,335
Total(vii)	3,517,764,841	102,952,312	-	3,620,717,153
Office Equipments				
Fans & Air Coolers	1,510,295	11,225	(12,275)	1,509,245
Office Equipments	10,220,503	500,807	(298,538)	10,422,772
Water Coolers & Refrigerator	655,274	-	-	655,274
Total (viii)	12,386,072	512,032	(310,813)	12,587,291
Computers and Data Processing Units				
Communication Equipments / Instruments	5,724,470	-	(605,290)	5,119,180
Computers	35,006,511	4,016,564	(535,169)	38,487,906
Simulators	31,731,375	-	-	31,731,375
Total (ix)	72,462,356	4,016,564	(1,140,459)	75,338,461
Electric Installation				
Electric Installation	14,647,606	2,660,656	-	17,308,262
Total(x)	14,647,606	2,660,656	-	17,308,262
Books & Periodicals				
Course Material & Equipments	529,999	-	-	529,999
Library Books	2,782,672	472,456	-	3,255,128
Total(xi)	3,312,671	472,456	-	3,785,127
Total-A (i+ii+iii+iv+v+vi+vii+viii+ix+x+xi)	8,266,577,815	2,237,393,999	(36,839,891)	10,467,131,923
Intangible Assets				
Shoal Analysis	3,335,236	682,720	208,360	4,226,316
Software	11,312,109	205,746	-	11,517,855
Total(B)	14,647,345	888,466	208,360	15,744,171
Total(A+B)	8,281,225,160	2,238,282,465	(36,631,531)	10,482,876,094
PREVIOUS YEAR	6,784,036,815.00	1,200,438,217.00	(129,116,631.00)	7,855,358,401.00

(A. K. Gupta)
Chief Accounts Officer

(Alok Ranjan)
Member (Finance)

Depreciation				Net Block	Net Block
As on 01.04.2016	During the Year	Additions/ Deductions	As on 31.03.2017	As on 31.03.2017	As on 31.03.2016
319,614,048	28,438,995	1,895,579	349,948,622	898,704,422	893,173,710.00
2,561,263	344,974	-	2,906,237	20,486,254	20,831,228.00
-	-	-	-	2,195,452,739	242,046,545.00
-	-	-	-	36,482,990	45,767,583.00
-	-	-	-	400,736,248	-
6,984,906	473,106	-	7,458,012	23,398,991	23,747,847.00
11,237,914	170,854	-	11,408,768	-	-
340,398,131	29,427,929	1,895,579	371,721,639	3,575,261,644	1,225,566,913
-	-	-	-	-	-
267,597,572	49,301,004	-	316,898,576	1,525,568,889	1,448,477,331
-	-	-	-	195,375,123	255,434,519
267,597,572	49,301,004	-	316,898,576	1,720,944,012	1,703,911,850
52,612	-	(868)	51,744	2,723	1,855
975,250	54,743	-	1,029,993	1,158,622	1,213,365
4,804,720	1,029,866	-	5,834,586	10,060,735	11,090,601
5,832,582	1,084,609	(868)	6,916,323	11,222,080	12,305,821
6,719,506	2,164,565	(26,027)	8,858,044	16,177,555	17,970,188
18,846,670	3,374,217	-	22,220,887	52,097,216	45,934,498
3,698,066	546,502	-	4,244,568	992,576	1,539,078
3,953,251	349,855	-	4,303,106	2,067,819	2,417,674
2,828,095	647,877	-	3,475,972	5,832,992	6,453,408
83,094,122	13,407,818	-	96,501,940	63,739,857	77,147,675
46,244,933	8,060,796	(112,049)	54,193,140	58,272,570	63,073,684
505,016	68,020	-	573,036	4,039,364	4,107,384
9,212,858	3,267,310	-	12,480,168	187,638,971	151,155,254
56,987,701	4,910,254	534,012	62,431,967	42,093,632	32,577,186
124,286	26,579	-	150,865	251,913	278,492
232,213,964	36,823,793	395,936	269,433,693	433,204,465	402,654,522
11,299,955	1,426,948	(6,790)	12,720,113	12,010,804	11,774,506
472,983	102,409	-	575,392	40,285	133,974
11,772,938	1,529,357	(6,790)	13,295,505	12,051,089	11,908,483
5,356	230	(16)	5,570	1,786	1,947
2,923,419	503,340	(6,751)	3,420,008	3,019,239	2,681,862
2,928,775	503,570	(6,767)	3,425,578	3,021,025	2,683,809
114,596,051	7,865,955	(21,218)	122,440,788	216,594,510	224,439,247
8,597,131	395,170	-	8,992,301	3,294,195	3,689,365
906,961,280	60,451,974	-	967,413,254	1,687,355,770	1,746,718,784
191,966,867	14,778,461	-	206,745,328	407,881,007	320,796,116
1,222,121,329	83,491,560	(21,218)	1,305,591,671	2,315,125,482	2,295,643,512
1,263,478	34,433	(11,761)	1,286,150	223,095	246,817
6,265,633	1,268,334	(286,226)	7,247,741	3,175,031	3,954,865
518,822	37,382	-	556,204	99,070	136,452
8,047,933	1,340,149	(297,987)	9,090,095	3,497,196	4,338,138
4,714,025	230,264	(587,309)	4,356,980	762,200	1,010,445
29,871,071	2,402,088	(518,969)	31,754,190	6,733,716	5,167,701
19,326,426	8,624,880	-	27,951,306	3,780,069	12,404,945
53,911,522	11,257,232				

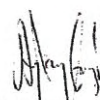
Pravir Pandey
(Pravir Pandey)
Vice-Chairman

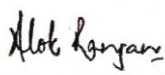
behalf of the Authority

 (Nutan Guha Biswas)
 Chairperson

**INLAND WATERWAYS
SCHEDULES FORMING PART OF INCOME &**

PARTICULARS	HQ	NW-1	NW-2	NW-3
SCHEDULE - 14 "OPERATIONAL AND MAINTENANCE EXPENSE"				
(i) SURVEYING		34,953,288	31,278,884	2,903,366
(ii) DREDGING		159,222,427	22,890,111	56,723,962
(iii) BANDALING		42,501,883	38,198,407	
(iv) AIDS TO NAVIGATION & CHANNEL MARKING		12,471,340	10,153,649	493,773
(v) TERMINAL FACILITIES		144,224,989	30,168,112	12,220,356
(vi) REPAIR AND MAINTENANCE OF VESSELS		67,213,653	19,824,321	
(vii) NIGHT NAVIGATION		41,390,981	39,754,209	6,528,864
(vii) PROTOCOL EXPENSES			15,150,227	
(viii) RIVER BANK PROTECTION			312,783,301	4,605,454
(ix) TRAINING EXPENSE				
(x) CONSULTANCY CHARGES		-	7,973,248	983,500
(xi) PROJECT MANAGEMENT CONSULTANCY CHARGES	38,387,482			
(xii) P.P.P. EXPENSES				
(xiii) IT RELATED EXPENSES	1,429,885			
(xiv) IWT PROMOTIONS	16,759,800	21,329,455	1,616,529	
(xv) SALARY WAGES & OTHERS ADMINISTRATIVE EXPENSES				
(xiv) OTHERS	-			
TOTAL	56,577,167	523,308,016	529,790,998	84,459,275


(A. K. Gupta)
Chief Accounts Officer


(Alok Ranjan)
Member (Finance)

AUTHORITY OF INDIA**EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31.03.2017**

NW-4	NW-5	NEW WATERWAYS	PATNA - NINI	JAL MARG VIKAS PROJECT	CURRENT YEAR	PREVIOUS YEAR
856,090	2,836,001			-	72,827,629	58,601,313
	74,560,290				313,396,790	318,825,144
					80,700,290	76,185,313
					23,118,762	21,471,259
	273,168			15,046,466	201,933,091	115,270,537
					87,037,974	53,849,509
-	-				87,674,054	77,362,657
					15,150,227	13,083,031
					317,388,755	
			24,305,347		24,305,347	23,667,313
8,722,498	4,522,956	96,465,322		216,429,058	335,096,582	142,541,956
			-		38,387,482	16,198,758
					-	18,305,000
					1,429,885	2,321,913
					39,705,784	17,884,709
				34,023,677	34,023,677	
				3,499,540	3,499,540	14,573,805
					-	
9,578,588	82,192,415	96,465,322	24,305,347	268,998,741	1,675,675,869	970,142,217

For and on behalf of the Authority

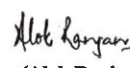
Pravir Pandey
(Pravir Pandey)
Vice-Chairman

Nutan Guha Biswas
(Nutan Guha Biswas)
Chairperson

INLAND WATERWAYS SCHEDULES FORMING PART OF INCOME &

PARTICULARS	HO	NW-1	NW-2	NW-3
SCHEDULE - 15 "PERSONNEL AND ADMINISTRATIVE EXPENSES"				
(A). PERSONNEL EXPENSES				
(i) PAY & ALLOWANCE	87,128,970	94,799,405	18,277,364	14,450,047
(ii) HONORARIUM	42,000			
(iii) MEDICAL FACILITIES	15,738,914	2,995,109	487,016	1,054,424
(iv) DAILY WAGES				
(v) OTA	110,095	68,955	1,643	
(vi) BONUS	674,969	1,345,941	186,516	165,792
(vii) LEAVE SALARY AND PENSION CONTRIBUTION FOR EMPLOYEES ON DEPUTATION	3,883,295			
(viii) RENT FOR ACCOMMODATION PROVIDED TO EMPLOYEES	1,306,284	48,513	14,345	
(ix) LIVERIES	75,755	97,485	26,013	3,366
(x) TUITION FEES	693,819	618,510	-	227,008
(xi) PENSION CONTRIBUTION	63,230,113	91,977,789	17,381,640	10,139,290
(xii) GRATUITY CONTRIBUTION	8,820,866	13,888,065	2,627,492	1,689,102
(xiii) LEAVE ENCASHMENT	7,074,302	10,167,850	1,943,500	1,234,530
(xiv) EMPLOYERS CONTRIBUTION TO NPS	224,278	405,170	159,570	141,565
(xv) LTC EXPENSES	833,925	177,030	91,853	25,752
(xvi) STAFF WELFARE EXPENSES	1,030,862	234,897	60,594	51,652
(xvii) STAFF RECRUITMENT EXPENSES	3,059,658			
(xviii) SEMINAR AND TRAINING EXPENSES	-			
(xix) OTHER EXPENSES				
TOTAL	193,928,105	216,824,719	41,257,546	29,182,528
(B). ADMINISTRATIVE EXPENSES				
(i) REPAIR & MAINTENANCE	14,192,142	397,800	22,660	36,522
(ii) COMMUNICATION EXPENSES	1,321,765	512,027	157,517	118,521
(iii) PRINTING & STATIONERY	2,635,294	428,209	96,818	-
(iv) VEHICLE RUNNING & MAINTENANCE	2,800,739	513,567	75,461	-
(v) ADVERTISEMENT & PUBLICITY				
(vi) CONVEYANCE REIMBURSEMENT	415,930	160,215	17,344	7,800
(vii) TRAVELLING				
- INLAND	6,623,710	674,997	78,011	-
- FOREIGN	434,355			
(viii) NEWSPAPER & PERIODICALS	148,165	32,782	16,833	14,521
(ix) CONSUMABLES	144,485	96,841	31,311	-
(x) ELECTRICITY & WATER	3,151,769	621,532	2,616	-
(xi) LEGAL AND PROFESSIONAL CHARGES	505,270	55,426	-	
(xii) LOSS ON SALE OF ASSETS				
(xiii) HINDI PROMOTION	-	131,969	34,995	24,450
(xiv) AUDIT FEES & EXPENSE	2,649,331			
(xv) AUTHORITY MEETINGS EXPENSES	139,140			
(xvi) INSURANCE				
(xvii) RENT, RATES & TAXES	271,655	1,686,347	158,005	-
(xviii) WRITTEN OFF				
(xix) BAD DEBTS				
(xx) MISC. EXPENDITURE	39,165	185,960	2,942	87,006
(xxi) OTHERS				
TOTAL	35,472,915	5,497,672	694,513	288,820
SCHEDULE - 16 "FINANCE CHARGES"				
(i) BANK CHARGES	23,668	18,836	25,732	6,508
(ii) INTEREST PAID				
- ON BONDS / DEBENTURE	-			
- ON OTHERS				
(iii) COMMISSION / BROKAGE				
TOTAL	23,668	18,836	25,732	6,508


(A. K. Gupta)
Chief Accounts Officer


(Alok Ranjan)
Member (Finance)

Annual Report 2016-17



AUTHORITY OF INDIA EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31.03.2017

NW-4	NW-5	NEW WATERWAYS	PATNA - NINI	JAL MARG VIKAS PROJECT	CURRENT YEAR	PREVIOUS YEAR
	2,363,124			-	217,018,910	197,976,965
					42,000	185,000
					20,275,463	6,023,471
					-	58,127
					180,693	202,473
					2,373,218	894,331
					3,883,295	978,215
					1,369,142	1,699,176
					202,619	63,981
					1,539,337	1,706,742
					182,728,832	108,625,088
					27,025,525	498,564
					20,420,182	794,792
					930,583	1,142,633
					1,128,560	1,660,723
14,466	5,620				1,398,091	1,492,288
					3,059,658	349,489
					-	496,139
					-	
14,466	2,368,744		-	-	483,576,108	324,848,197
133,349	151,941				14,934,414	10,264,105
22,410	36,855				2,169,095	2,298,382
46,927	33,512				3,240,760	2,976,254
68,697	674,682				4,133,146	5,267,219
					-	6,943,186
1,612	-				602,901	498,295
					-	
537,255	-				7,913,973	8,349,918
					434,355	1,825,321
	-				212,301	194,146
	-				272,637	436,277
487,545	12,499				4,275,961	3,748,183
					560,696	947,282
					-	
					191,414	349,377
					2,649,331	2,659,688
					139,140	740,595
					-	
50,000	149,256				2,315,263	2,645,062
					-	
					-	
	7,185				322,258	216,829
					-	1,493,967
1,347,795	1,065,930	-	-	-	44,367,645	51,854,086
				71,198	145,942	88,659
					-	
					-	
					-	
					-	
					-	
-	-	-	-	71,198	145,942	88,659

Pravir Pandey
(Pravir Pandey)
Vice-Chairman

For and on behalf of the Authority
Nutan Guha Biswas
(Nutan Guha Biswas)
Chairperson

Schedule-17

Notes to Accounts form Integral part of Financial Statements as on 31.03.2017

1. Capital works in progress amounting to **Rs.12792.25 lakh** (previous year Rs.5927.91 lakh) consist of the following:-

(In Lakh)

S. No.	Name of Party	Purpose	Amount
I	NW- 1		
1.	M/s Nalanda Engineering Enterprises	Construction of Gangways at Haldia Terminal	63.67
2.	M/s Dinesh Prasad Sharma, Bhagalpur	RIS Station at Munger	22.03
3.	M/s Abhay Kumar Singh	RIS at Hatidah, Barh, Govindpur Khas	111.82
4.	M/s Recktronics Devices & system, Pune	River information systems . Farakka Patna	176.17
5.	M/s Elcome Integrated systems	RIS Equipment at Varanasi	160.75
	Total -NW- 1		534.44
II	Jal Marg Vikas Project		
1.	M/s Turnkey Waterways Joint Venture Goa	Procurement Survey-cum-Inspection Vessels	1092.14
2.	M/s Afcons Infrastructure Ltd.	Construction of multimodal terminal at Varanasi	1999.63
3.	M/s Larsen & Toubro Ltd.	Construction of multimodal terminal at Sahibganj	836.16
		Construction of new navigational lock at Farakka	989.18
	Total - JMVP		4917.11
III	NW-2		
1.	CPWD-Guwahati	Construction of Ro-Ro Terminal at Dhubri	4245.39
2.	M/s Tebma Shipyards	Construction of Ro-Ro Vessels	184.95
3.	M/s Yojaka India Pvt. Ltd	Construction of Slipway	255.86
4.	M/s A.C.ROY & CO,	Construction & Supply of two unit of Tug Barge Flotilla of 2000T.	927.90
5.	M/s Soft Shipyards Pvt. Ltd.	Construction & Supply of two unit of self propelled Cargo Vessel 2000T.	298.80
	Total - NW-2		5912.90
IV	NW-3		
1.	CPWD	Construction of terminal & Approach Road on NW- 3	1296.93
	Total - NW-3		1296.93
V	NW-5		
1	M/s Merolyn Engineering Works Pvt. Ltd.	Construction Design of Steel Pontoon with Gangway	130.87
	Total - NW-5		130.87
	Grand Total		12792.25

2. (i) During F.Y. 2016-17, the Authority incurred the following expenditure in respect of Chairman and full time Members:

(in rupees)

Salary	House Rent	Leave Salary & Pension Contribution	Medical Reimbursement	Travelling Expenses		Total
				Foreign	Inland	
86,83,138	7,01,184	27,30,200	31,929	3,24,036	31,31,010	1,56,01,497
Previous Year (2015-16)-						
58,20,430	6,95,872	5,69,412	1,40,073	9,09,717	14,77,372	96,12,876

During the year Chairman and Member (Traffic) visited Bangladesh for attending Joint Technical Committee 18th meeting of the Standing Committee on Protocol on Inland Water Transit & Trade (PIWTT) including Shipping Secretary level talks from 06th Dec. – 07th Dec., 2016.

- (ii) No Member of IWAI Board has outstanding debts/ loans/ advances.
3. 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.F.15(4)-B(CDN)/2015 dated 03.10.2016.

As per OM No. F.No.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 successfully went for electronic bidding to raise EBR with an issue size of Rs.200.00 crore through “GOI Fully Serviced Bonds” in private placement mode on 01.03.2017. The

issue was oversubscribed and IWAI was able to raise Rs.340.00 crore for the tenure of 10 years at a coupon rate of 7.9 percent (Semi Annually) after assessing the requirement of EBRs for the F.Y. 2016-17, for the development of Inland Waterways and Shipping Infrastructure. As per Information Memorandum, the pay date was 03.03.2017. Authority received Rs.340.00 crore on the same day in the designated bank account. An issue expenditure of Rs.60,71,173/- was incurred in F. Y. 2016-17 and same shown as recoverable. The Interest liability on Bonds Rs.21340822/- for the period 03.03.2017 to 31.03.2017 has been provided by debiting claim recoverable and crediting interest payable.

4. 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, who is assisted by 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 and Kolkata 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 has been revised to Rs.5369.00 crore. The interventions now proposed include fairway development to provide 2.2 m to 3 m and bottom channel width of 45 m on the 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 proposed to be 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; and the Board of Executive Directors of the IBRD approved the loan of US\$ 375 million on 12.04.2017. In the meantime, World Bank sanctioned a Project Preparatory Fund Advance (PPFA) of 3.5 million to meet the cost on pre-investment activities and establishment costs of PMU and PIUs. The Authority has submitted claim against PPFA to CAAA for the period 03.06.2015 to 31.03.2017. Against the claim Rs.23.62 crore was approved upto the limit of PPFA and deposited in Govt. of India Account.

Four subprojects of JMVP have been taken up for execution during the current financial year after appraisal by the Standing Finance Committee and approval by the competent authority. These are: Phase-I(A) of the multimodal terminal at Varanasi at a cost of Rs.169.59 crore; Phase-I of the multimodal terminal at Sahibganj at a cost of Rs.280.90 crore; Phase-I of the 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. The Public Investment Board has appraised the remaining interventions of the project on 06.03.2017.

On the project the expenditure of Rs.303.26 crore has been incurred on various works during F. Y. 2016-17.

5. (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 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.

- (iii) The Income Tax department has also filed an appeal in High Court of Allahabad against the order of ITAT, New Delhi in July, 2006 for the assessment years 1988-89 to 1997-98. During the year, Hon'ble High Court of Allahabad has dismissed all appeals filed by the department and passed orders in favour of the Authority.

6. A sum of Rs.5169.56 lakh (previous year Rs.5164.31 lakh) towards cost of land for 11 terminals and land for widening of narrow canal has been made as advance to Government of Kerala. Out of the above, 12.3809 hectares of land for terminal has been capitalized for Rs.1953.75 lakh till 31.03.2017. For widening of canal, 21.53 hectares of land has been acquired at the cost of Rs.1731.23 lakh. An amount of Rs.1366.39 lakh has been charged to revenue expenditure since the land is submerged in water after widening of waterways upto March, 2017. Authority may be made liable to pay interest and enhancement of cost on land acquired if the orders of various Courts in Kerala so directs. Rs.1478.36 lakh was available with various District Collectors in Kerala which included Rs.1390.00 lakh deposited for land acquisition for the new approach road to Maradu terminal.
7. A sum of Rs.3285.55 lakh (previous year Rs.3270.17 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) till date. The expenditure incurred till date for Rs.1296.93 lakh for the construction of Alapuzha Terminal (Rs.905.96 lakh), Kottapuram approach road (Rs.90.87 lakh) Kayamkulam Terminal and approach road (Rs.86.88 lakh) and Chavara approach road and Compound wall (Rs.213.22 lakh) have been shown under Capital Work in Progress.
8. A sum of Rs.1660.00 lakh (previous year Rs.1660.00 lakh) has been 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.
9. A sum of Rs.1865.66 lakh (previous year Rs.1254.00 lakh) has been released as deposit to NF Railway, Guwahati in connection with construction of Broad Gauge Siding at Pandu Terminal (Rs.1641.66 lakh) and the work of replacement of 28 units Type - II quarters (Rs.224.00 lakh) at Guwahati. A sum of Rs.1865.66 lakh has been capitalized in F. Y. 2015-16. It is also mentioned that an additional cost of Rs.611.66 lakh claimed by NF Railway has been released.

10. 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. 668.64 lakh has been capitalized and balance Rs. 37.58 lakh shown as advance to CPWD.
11. A sum of Rs. 4408.00 lakh (previous year Rs.4408.00 lakh) has been deposited with CPWD, Guwahati for construction of RO-ROJetty, Dhubri including administrative block, roads, electricity connections etc. Out of this, an amount of Rs. 4245.39 lakh (previous year Rs. 3315.02) has been charged to Capital Work in Progress.
12. 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.

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.
13. 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. The agreed amount of Rs.23.93 lakh has been shown as claim recoverable. During the year, the expenditure for the same has been provided.
14. 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. During the year, the expenditure for same has been provided.
15. The Authority signed an agreement with M/s HDPEL, Kolkata in March, 2005 for construction and delivery of Floating Dry Dock at a cost of Rs.873.00 lakh excluding taxes and cost of spare parts. As M/s HDPEL, Kolkata were unable to deliver the Floating Dry Dock, the Authority cancelled the contract and an amount of Rs.190.42 lakh was shown as claim recoverable for HDPEL, Kolkata after adjusting amount payable of Rs.71.48 lakh due for Liquidated Damages (LD), repair of vessels for oil tanker and container vessels. During the year, the amount of Rs.190.42 lakh has been recovered against amount due for construction and supply of 4 work boats.

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 connecting Sittwe port in Myanmar with the State of Mizoram in India. This is known as “Kaladan Project”. Initial awarded work of Port & IWT component has been completed in May, 2017. Some of additional work under phase-1 work like staff quarters, slope protection work, bank protection work, fuel bunkering station, workshop etc. is in progress and expected to be completed by April, 2018 as per time line. Further, future work like construction of container terminal at Sittwe & Paletwa (Completion in Sept., 2020), removal of two wrecks at Sittwe (completion in Dec., 2017) and O&M of assets completed under phase-1 works (Maintenance for five year) or completion of road work from Paletwa to India-Myanmar Boarder, whichever is completed earlier. The Authority has received PDC fees of Rs.2261.12 lakh for the Project till date. Out of the above, an expenditure of Rs.2322.92 lakh has been incurred and Internal Receipts of Rs.220.34 lakh including bank interest generated on the project. During the year, an amount of Rs.306.26 lakh (previous year Rs.307.52 lakh) has been incurred as expenditure and an amount of Rs.19.09 lakh (previous year Rs.16.87lakh) has been received as Internal Receipts from the project.

The Expenditure as Project Development Consultant incurred out of funds as Consultancy fees 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 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. 2016-17.

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 31.03.2017, an amount of Rs.10705.00 lakh for Pension (previous year Rs.9039.00 lakh), Rs.1144.74 lakh for Gratuity (previous year Rs.884.92 lakh) and Rs.942.39 lakh for leave encashment (previous year Rs.747.09 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.8879.93 lakh and Rs.874.49 lakh is available with the Trust for pension and gratuity respectively and Rs.744.87 lakh is available with LIC for leave encashment fund. During F. Y. 2016-17, a provision of Rs.1825.07 lakh, Rs.270.26 lakh and Rs.197.53 lakh has been provided towards Pension, Gratuity and Leave Encashment respectively after considering Actuarial Valuation and fund available with IWAI employee's Pension fund trust for pension, gratuity and with LIC for leave encashment. Provision for Pension, Gratuity and Leave Encashment provided upto 31.03.2016 has been discharged in F. Y. 2016-17.

For Actuarial Valuation, the assumptions are:

Mortality Rate	:	IALM (2006-08) ultimate.
Withdrawal Rate	:	1% to 3% for all age.
Discount Rate	:	8% p.a.
Salary Escalation	:	6% p.a.

18. Authority has appointed Actuarial Valuer for providing valuation on post-retirement medical benefit for retired/ death employees of the Authority for those who opted to avail medical facilities from the Authority. As per valuation certificate Rs. 1,13,24,695/- has been provided in F. Y. 2016-17.

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 lakh each 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 done from their end. However, the settlement of accounts are awaited.

20. There are 3 Arbitration cases pending before the Arbitrators having contingent liability upon IWAI and claim by IWAI. Two cases relate to capital dredging works in NW-3 and one case relates to construction of vessel. At present 31 cases related to LAR/ LAA with Sub-Court, Kerala are pending having contingent liability. A list of pending court cases has been prepared. The pending court cases with liability is shown in tabulation format as below:-

(Rs. in crore)

Court	No. of case	Liability upon IWAI	Claim by IWAI
Hon'ble Supreme Court	04	-	-
NGT, Delhi	03	-	-
NGT Southern Zone, Chennai	01	-	-
Hon'ble High Court, Delhi	04	-	-
Hon'ble High Court, Kerala	08	-	-
Hon'ble High Court, Patna	04	-	-
Hon'ble High Court, Allahabad	07	-	-
Hon'ble High Court, Kolkata	07	-	-
Hon'ble High Court, Guwahati	05	-	-
Hon'ble High Court, Hyderabad	01	-	-
Hon'ble High Court, Madras	01	-	-
District Court, Varanasi	01	-	-
Lower Court, Balasore	01	-	-
CGIT cum Labour Court, Guwahati	01	-	-
Sub Court, Patna	01	-	-
City Court, Kolkata	01	-	-
CGIT cum Labour Court, Kolkata	05	-	-
Sub Court, Visakhapatnam	01	-	-
Sub Court, Kerala	03	-	-
Human Right Commission, Kerala	02	-	-
Arbitration between IWAI vs DDCL	01	-	12.67
Arbitration between IWAI vs Crown Maritime	01	13.290	33.48
Arbitration between IWAI vs Neptune Maritime	01	29.808	21.04
Sub Court, Kerala (LAR/ LAA cases)	31	2.37	0.00
Total		45.468	67.19

21. An MOU was entered with M/s ARI, Delhi for setting up Maritime Simulator Centre at NINI, Patna. As per the MOU, the capital cost of simulator is to be shared between IWAI and ARI in the ratio of 50:50 and the net revenue after running expenses shall also be shared. The cost of simulator unit has been capitalized and the cost of Rs.116.58 lakh (previous year Rs.116.58 lakh) incurred by M/s ARI shown as capital reserve and depreciation has been deducted on the same.
22. Authority received Rs.35841.00 lakh as Grant under different budget heads of Plan and Non-Plan during F. Y. 2016-17. Authority has also raised funds by issuance of Bonds through Private placement of Rs.340.00 crore as per approval of Ministry of Finance. During the year, capital expenditure of Rs.37335.13 lakh and revenue expenditure of Rs.22184.17 lakh was incurred by the Authority including

provision of Rs.1825.07, Rs.270.26 lakh and Rs.197.53 lakh for Pension, Gratuity and Leave Encashment contribution respectively in F.Y. 2016-17. During the year, Authority generated Internal Receipts of Rs.1647.75 lakh which includes accrual interest Rs.42.62 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. 2016-17

		(Amount in lakh)
Particulars		Total
Grants/ EBRs received		
(a) Plan	28240.00	
(b) Non-Plan	7601.00	
(c) Bonds (EBRs)	34000.00	69841.00
Less:- Expenditure incurred		
(a) Revenue expenditure	22184.17	
(b) Capital expenditure	37335.13	59519.30

23. An amount of Rs.9255.40 lakh has been released as advance to District Land Acquisition Officer and Deputy Commissioner, Sahibganj for acquisition of 183.165 acres of land for construction of multi-modal terminal at Sahibganj and Rs.4738.72 lakh for rehabilitation & resettlement of 427 families till 31.03.2017. Out of above, land measuring 168.8338 acres has been taken over amounting to Rs.11719.36 lakh and the same has been capitalized. Rs.2463.96 lakh is shown as liability for balance dues against the land taken over as on 31.03.2017. Rs.4738.72 lakh paid for rehabilitation & resettlement is shown as advance.
24. 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.

25. Construction of vertical expansion of IWAI office cum R&D Complex Noida was approved in 151th Authority Meeting for Rs.1450.00 lakh. The Construction of building was completed. Expenditure of Rs.1442.27 lakh incurred on construction of vertical expansion of building, electrical installation, HVAC System, Passenger Lift, Multi-Level Multi-Grid over ground Car parking & DG Set, the same was capitalized in respective financial year. For construction, the expenditure incurred was charged to Plan Grant in respective financial years. It is mentioned that the Authority had rented out 4 floors of the Building to Govt. PSUs/ Deptt.. Rent received Rs.64.65 lakh, Rs.200.06 lakh and Rs.258.16 lakh for F. Y. 2013-14, 2014-15 and 2015-16 respectively and deposited in Govt. Account. Amount of Rs.290.94 lakh pertaining to F. Y. 2016-17 is yet to be deposited.
26. During the year, Internal Receipts of Rs.1647.75 lakh 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:-

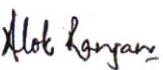
Sl. No.	INTERNAL RECEIPTS	Amount (in Rs.)
1	RENTAL INCOME (BUILDING)	29,094,265
2	INTEREST ON SHORT TERM DEPOSIT	83,655,178
3	INTEREST ON STAFF ADVANCE	348,142
4	INTEREST ON MOB. ADVANCE	74,910
5	PROTOCOL FEE	2,053,003
6	WATERWAY USES CHARGES	4,911,458
7	BERTHING CHARGES	4,460,500
8	STORAGE AND HANDLING CHARGES	800,335
9	TOWAGE CHARGES	3,809,580
10	PILOTAGE CHARGES	530,250
11	TERMINAL CHARGES	500,227
12	DRY CARGO	979,470
13	MOVEMENT OF OVER DIMENSIONAL CHARGES (ODC)	2,454,656
14	CRANE (INCLUDING PONTOON CRANE) HIRE CHARGES	14,086,030
15	WHARFAGE	619,098
16	SALE OF TENDER FORM	1,063,103
17	SALE OF NAVIGATION CHART	122,660
18	PROFIT ON SALE OF FIXED ASSETS	318,168
19	MISC. RECEIPTS	7,041,609
20	TUITION FEE	5,321,816
21	COURSE & HOSTEL FEE	1,208,038
22	OTHER INCOME	1,322,645
	Total	164,775,141

27. Leased land has been acquired at Noida and Haldia on upfront payment basis. The amount for leased land paid has been shown in fixed assets schedule. The amount of lease rent pertaining to particular financial year charged to revenue expenditure in respective financial year.
28. 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 a specified routes of river routes of each country. Under this protocol routes there are 5 ports of call in each country. The agreement is valid upto March, 2020.
 - (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 and EFC is under finalization. With the development above protocol route there will be direct connectivity from Varanasi to Sadiya (Assam) through National Waterway – 2 and to Lakhimpur (Assam) through National Waterway – 16 via Patna (Bihar), Sahibganj (Jharkhand), Haldia (West Bengal).
29. 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 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 has been sent to Ministry of Shipping for approval in consultation with C&AG office vide IWAI letter no. IWAI/Fin./3542/98 dated 16.06.2017. Annual Accounts for the F. Y. 2016-17 has been prepared on revised format of accounts as adopted by IWAI Board.
30. Bank Guarantees valued at Rs.4427.76 lakh (previous year Rs.2616.35 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 2017.
31. Details of location-wise Land/ Lease Land in the possession of the Authority as on 31.03.2017 is enclosed at **Annex.-A.**
32. Details of Fixed Assets alongwith depreciation thereon located in respective field offices as on 31.03.2017 is enclosed at **Annex.-B.**
33. Annual Accounts has been prepared as per Accounting Standards issued by the Institute of Chartered Accountant of India as far as possible.

34. Re-grouping and re-classification has been done where considered necessary.
35. 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)
Chief Accounts Officer


(Alok Ranjan)
Member (Finance)


(Pravir Pandey)
Vice-Chairman


(Nutan Guha Biswas)
Chairperson

Inland Waterways Authority of India
Office-wise details of Land as on 31.03.2017

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)	Remarks
(2)	(3)	(4)	(5)	(6)	(7)	(8)	
Kolkata Office							
A Operation & Maintenance of Terminal							
1	Haldia Purba Midnapore Distt.	10319 Sq.M	10319 Sq.M		No		On lease basis from Haldia Dock Complex, Kolkata Port Trust w.e.f. 04.03.1994
2	BISN/GRJ-I Kolkata Distt.	30409.64 Sq.M	30409.64 Sq.M		No		On 30 years lease basis from Kolkata Port Trust, Kolkata Land taken over by IWAI w.e.f 20.02.2014 for 30 years (Upto 19.02.2044)
3	G.R.Jetty-II Kolkata Distt	14557 Sq.M	14557 Sq.M		No		On 30 years long term lease basis from Kolkata Port Trust, w.e.f 07.03.2008 for 30 years (Upto 06.03.2038)
4	Botanical Garden Jetty Kolkata Distt.	996 Sq. M	996 Sq. M		No		Provided free of cost by Kolkata Port Trust w.e.f December.2004
5	Shantipur Nadia Distt	8000 Sq.M	8000 Sq.M		No		Provided free of cost by Distt. Magistrate, Nadia(W.B.) Land taken over in August,2008
B Under JMVP							
1	Haldia Purba Midnapore Distt.	246858.15 5 (61 acre)	246858.15 5 (61 acre)		No		Leased for 30 Years w.e.f. - 02.11.2015
2	Farakka (W.B.)	12.86 Hectare	12.86 Hectare		No		Transfer from Farakka Barrage Project , Farakka to IWAI (MOS).
C RIS/DGPS Station							
1	Swaroopganj Store Nadia Distt	290.00 Sq.M	290.00 Sq.M		No		On lease basis from Kolkata Port Trust w.e.f 18.08.2001
2	Swaroopganj Store Nadia Distt	22.5 Sq.M	22.5 Sq.M		No		On lease basis from Kolkata Port Trust w.e.f 18.08.2002
3	Swaroopganj Store Nadia Distt	25.00 Sq.M	25.00 Sq.M		No		On lease basis from Kolkata Port Trust w.e.f 01.01.2003
4	Swaroopganj (DGPS)Store. Nadia Dist.	2000 Sq. M	2000 Sq. M		No		On lease basis from Kolkata Port Trust w.e.f 28.02.2011 on 11 month lease basis
5	Office Building at P-78 Garden Reach Road, Kolkata-700043, Kolkata Dist.	941 Sq. M	941 Sq. M		No		On 11 month license basis from Kolkata Port Trust w.e.f 01.07.2005
6	Balia Murshidabad Distt.	539.98 Sq. M	539.98 Sq. M		No		On lease basis for 30 years w.e.f 01.11.2013 taken from Sri Tapas Mandal, S/o Sri Sashigopal Mandal, Vill- + Po Kamarpur, PS Beldanga, Distt- Murshidabad, PIN-742189, Mouza- Kamarpur JL No. -44, Plt No.44 Plt No. 157 & 157/2560
7	Kumarpur Murshidabad Distt	919.00 Sq. M	919.00 Sq. M		No		On lease basis for 30 years w.e.f 01.11.2013 taken from Sri Tapas Mandal, S/o Sri Sashigopal Mandal, Vill- + Po Kamarpur, PS Beldanga, Distt- Murshidabad, PIN-742189, Mouza- Kamarpur JL No. -44, Plt No.44 Plt No. 157 & 157/2560
8	Tribeni (Bansberia)	664.00 Sq. M	664.00 Sq. M		No		On lease basis for 30 years w.e.f 01.01.2014 taken from Sri Sanjib Kumar Singh, S/o Late Prem Kumar Singh, Maha Kalitala Lane, Bansberia, P.S. Mogra, Dist - Hooghly (W.B.), PIN- 712502, Mouza-Bansberia, RS Dag No. 941(P), R.S. KH No. 1456, Area 7150.00 sqft | (0.164 Acre), 590.84 sq., P.S. Mogra, Dist. - Hooghly (W.B.)

Inland Waterways Authority of India Office-wise details of Land as on 31.03.2017

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)	Remarks
(2)	(3)	(4)	(5)	(6)	(7)	(8)	
Patna Office							
1		11868.23	11868.23	.....	Yes	No	Low Level Jetty
2	Gaighat, Patna, Distt -	4046.86	4046.86	.....	Yes	No	High Level Jetty
3	Patna	17401.50	17401.50	.....	No	No	NINI
4		5539.34	5539.34	.....	Yes	No	NINI Extension
5	Bari Khanjarpur, Bhagalpur, Distt - Bhagalpur	15620.87	15620.87	.....	Yes	No	
6	Khas Mahal Gird Kila, Munger, Distt - Munger	13759.31	13759.31	.....	No	50% Encroachment	Construction of RIS station in 50% land is in progress.
7	Ralhupur, Ramnagar, Varanasi, Distt -	55860	55860	.....	Yes	No	
8		96170	96170	.....	No	No	
9	Lawain Khurd, Allahabad, Distt - Allahabad	87590	87590	.....	Yes	No	
10	Sahibganj, Distt - Sahibganj	686905.32	242811.36	.....	In progress	70% Encroachment /project affected families not shifted from the acquired land.	Due to Rehabilitation & Resettlement of project affected families for the balance (70% land) are in progress
Guwahati Office							
1	Pandu Kamrup Metro Distt.	77870	77870	Govt. of India Land	No	No	Govt. land taken over from CIWTC.
2	Jogighopa (Terminal) Bongaigaon Distt.	164700	164700	Govt. of India Land	No	No	Taken over from CIWTC.
3	Neamati, Jorhat Distt.	20000	20000	Acquired through Govt. of Assam	No	Yes	Land partly eroded therefore mutation could not be done.
4	Hatsingmari, Dhubri Distt.	17240	17240	Acquired through Govt. of Assam	No	Yes	Land has been eroded therefore mutation could not be done.
5	Dibrugarh, Dibrugarh Distt.	40190	40190	Yes	Yes	No	
6	Silghat, Nagaon Distt.	20070	20070	Yes	Yes	No	
7	Bishwanathghat, Sonitpur Distt.	6300	6300	Yes	Yes	No	
8	Dhubri, Dhubri Distt.	32500	32500	Yes	Yes	No	
9	Oriumghat, Dhemaji Distt.	26000	26000	Acquired through Govt. of Assam	No	No	Mutation of the land could not be done as Govt. of Assam has disbursed only 80% money to the land owners. Matter has been taken up with DC, Dhemaji. Reply awaited.
10	Old Jogighopa Port	605300	NIL	Govt. of India land	See Remarks	Fully encroached before taking over	Govt. land taken over from CIWTC on 26.04.2017
11	Agency Bungalow at Dibrugarh	6314	6314	Yes	No	No	
12	Karimganj, Steamer Ghat	7237	7237	Yes	No	No	Govt. Land taken over from CIWTC. Mutation is yet to be done.
13	Badarpur, Steamer Ghat	4361	4361	Yes	No	No	Govt. Land taken over from CIWTC. Mutation is yet to be done.

Inland Waterways Authority of India
Office-wise details of Land as on 31.03.2017

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)	Remarks
	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Kochi Office							
1	Kottappuram Terminal, Thrissur District	5823	5823	Possession Certificate obtained	No	No	
2	Aluva Terminal, Ernakulam District	13310	13310	Under process	No	No	
3	Maradu Terminal, Ernakulam District	20085	20085	Under process	Yes	No	
4	Kakkanad Terminal, Ernakulam District	12205	12205	Under process	No	No	
5	Vaikkom Terminal, Kottayam District	5184	5184	Under process	Yes	No	
6	Thrikunnapuzha Terminal, Alappuzha District	5057	5057	Under process	No	No	
7	Thanneermukkom Terminal, Alappuzha District	9170	9170	Under process	Yes	No	
8	Alappuzha Terminal, Alappuzha District	22550	22550	Under process	No	No	
9	Kayamkulam Terminal, Alappuzha District	16332	16332	Under process	No	No	
10	Chavara Terminal, Kollam District	8061	8061	Under process	No	No	
11	Kollam Terminal, Kollam District	5812	5812	Under process	No	No	
12	Alappuzha and Kollam District - For widening of Canal	215305	48822	-	-	-	Land 166483 sq. mtr. subsumed in canal and cost booked in revenue expenditure.
Varanasi Office							
1	Ralhupur, Ramnagar, Varanasi	5.586	5.586	Land has acquired through acquisition rule.	Yes	No	Terminal construction under progress on this land.
2		9.617	9.617	Yes	No	No	Mutation is under process.

INLAND WATERWAYS SCHEDULE OF FIXED

	PARTICULARS	GROSS BLOCK AS ON 31.03.2016	ADDITIONS DURING THE YEAR	ADJUSTMENT/ DEDUCTIONS	GROSS BLOCK AS ON 31.03.2017 (3+4+5)
1	2	3	4	5	6
NOIDA	Survey Equipment	2,503,166	58,094	-	2,561,260
	Vehicles	1,424,601	834,019	-	2,258,620
	Furniture & Fixture	5,238,770	1,094,762	-	6,333,532
	Office Equipment	5,125,250	105,325	-	5,230,575
	Electric Installation	10,404,034	1,293,600	-	11,697,634
	Air Conditioners	21,010,589	-	-	21,010,589
	Water Coolers & Refrigerators	182,751	-	-	182,751
	Fans & Air-Coolers	1,187,013	-	-	1,187,013
	Generator Set	7,047,195	-	-	7,047,195
	Cycle	27,711	-	-	27,711
	Temporary Structure	539,260	170,854	-	710,114
	Library Books	1,171,771	98,530	-	1,270,301
	Computer	17,016,105	2,805,830	-	19,821,935
	Communication equip.	1,523,420	-	-	1,523,420
	Building	110,176,899	20,981	-	110,197,880
	Computer Software	1,515,011	31,750	-	1,546,761
	Residence Quarter	30,732,753	124,250	-	30,857,003
	Car Parking	23,392,491	-	-	23,392,491
	Lease -Land	24,448,916	-	(6,519,717)	17,929,199
	Passenger Lift	4,612,400	-	-	4,612,400
	TOTAL (A)	269,280,106	6,637,995	(6,519,717)	269,398,384
KOLKATA	Terminal	430,678,160	-	-	430,678,160
	Vehicles	1,184,049	-	-	1,184,049
	Furniture & Fixture	1,449,466	12,105	-	1,461,571
	Office Equipment	680,567	-	-	680,567
	Electric Installation	67,889	-	-	67,889
	Survey Instruments	25,446,600	576,245	-	26,022,845
	Library Books	130,200	2,245	-	132,445
	Speed Boats	4,232,684	-	-	4,232,684
	Vessels Ordinary	219,742,133	-	-	219,742,133
	Fans & Air Coolers	91,073	-	-	91,073
	Communication Network	517,313	-	-	517,313
	Barges	120,666,602	-	-	120,666,602
	Cycles	5,975	-	-	5,975
	Vessel Dredging Unit	439,526,949	-	-	439,526,949
	Computers	2,644,982	147,840	-	2,792,822
	Computers Software	1,679,784	-	-	1,679,784
	Night Nav. Equipment	50,955,498	-	(701,595)	50,253,903
	Air Conditioner	728,854	-	-	728,854
	Generator Set	1,185,869	-	-	1,185,869
	RIS Station Structure	19,869,240	-	-	19,869,240
	RIS Equipment	140,498,872	169,018	-	140,667,890
	DGPS Station	14,215,359	-	-	14,215,359
	TOTAL (B)	1,476,198,118	907,453	(701,595)	1,476,403,976

**AUTHORITY OF INDIA
ASSETS AS ON 31.03.2017**

Annex.-B

DEPRECIATION		ADJUSTMENT ON ACCOUNT OF ASSETS SOLD/TRANSFERRED	TOTAL DEPRECIATION AS ON 31.03.2017 (7 + 8 + 9)	NET BLOCK AS ON 31.03.2017 (6 - 10)
AS ON 31.3.2016	FOR THE YEAR			
7	8	9	10	11
2,378,008	2,570	-	2,380,578	180,682
639,070	310,485	-	949,555	1,309,065
3,773,616	262,943	-	4,036,559	2,296,973
3,395,319	610,847	-	4,006,166	1,224,409
2,808,009	884,824	-	3,692,833	8,004,801
5,322,250	1,837,757	-	7,160,007	13,850,582
		-		
153,898	16,135	-	170,033	12,718
1,104,287	6,010	-	1,110,297	76,716
1,897,790	468,841	-	2,366,631	4,680,564
24,380	589	-	24,969	2,742
539,260	170,854	-	710,114	-
1,171,771	98,530	-	1,270,301	-
15,297,928	955,901	-	16,253,829	3,568,106
881,088	141,540	-	1,022,628	500,792
28,927,265	1,900,078	-	30,827,343	79,370,537
1,376,096	63,453	-	1,439,549	107,212
6,984,906	473,106	-	7,458,012	23,398,991
2,561,263	344,974	-	2,906,237	20,486,254
		-	-	17,929,199
505,016	68,020	-	573,036	4,039,364
79,741,220	8,617,457	-	88,358,677	181,039,707
46,737,702	12,883,236	-	59,620,938	371,057,222
272,954	94,852	-	367,806	816,243
867,868	118,409	-	986,277	475,294
538,524	35,254	-	573,778	106,789
36,655	11,861	-	48,516	19,373
15,475,510	1,259,853	-	16,735,363	9,287,482
130,200	2,245	-	132,445	-
3,767,838	51,157	-	3,818,995	413,689
83,636,958	6,285,299	-	89,922,257	129,819,876
52,313	10,233	-	62,546	28,527
434,227	4,288	-	438,515	78,798
31,720,464	2,427,482	-	34,147,946	86,518,656
4,028	230	-	4,258	1,717
123,617,956	11,109,435	-	134,727,391	304,799,558
2,436,913	60,903	-	2,497,816	295,006
1,590,919	4,876	-	1,595,795	83,989
19,068,123	3,005,841	(466,835)	21,607,129	28,646,774
208,938	70,669	-	279,607	449,247
300,814	77,893	-	378,707	807,162
314,596	73,450	-	388,046	19,481,194
8,898,262	2,085,385	-	10,983,647	129,684,243
3,630,793	705,271	-	4,336,064	9,879,295
343,742,555	40,378,122	(466,835)	383,653,842	1,092,750,134

INLAND WATERWAYS SCHEDULE OF FIXED

	PARTICULARS	GROSS BLOCK AS ON 31.03.2016	ADDITIONS DURING THE YEAR	ADJUSTMENT/ DEDUCTIONS	GROSS BLOCK AS ON 31.03.2017 (3+4+5)
1	2	3	4	5	6
PATNA	Land	35,051,542	-	-	35,051,542
	Vehicle	1,982,617	-	-	1,982,617
	Furniture & Fixture	2,061,235	74,800	-	2,136,035
	Office Equipment	195,863	47,150	-	243,013
	Electric Installation	6,885	-	-	6,885
	Air Conditioners	1,210,025	-	-	1,210,025
	Water Coolers & Refrigerators	-	-	-	-
	Generator Set	70,950	-	-	70,950
	Survey Instruments	16,519,165	12,906,925	-	29,426,090
	Vessels: Dredging Unit	747,027,542	-	-	747,027,542
	Vessels: Ordinary	108,819,402	-	-	108,819,402
	Speed Boat	2,383,309	-	-	2,383,309
	Barges	84,062,200	-	-	84,062,200
	Temporary Structure	-	-	-	-
	Computer	3,959,579	358,300	-	4,317,879
	Library Books	89,666	17,855	-	107,521
	Survey Equip(compu)	4,837,917	-	-	4,837,917
	Survey Pillars	649,995	-	-	649,995
	Communication Equip.	1,118,858	-	-	1,118,858
	Building	49,719,000	17,145,000	-	66,864,000
	Terminals & Building -	602,909,758	-	-	602,909,758
	Night Navigation BOUYS	9,277,200	-	-	9,277,200
	DGPS STATION	32,245,501	-	-	32,245,501
	BEACON Tower	15,895,321	-	-	15,895,321
	SHOAL ANALYSIS	3,335,236	682,720	208,360	4,226,316
	RIS Station	-	35,374,286	-	35,374,286
	CRANE	46,326,824	-	-	46,326,824
	TOTAL (C)	1,769,755,590	66,607,036	208,360	1,836,570,986
GUWAHATI	Communication Equipment	1,673,126	-	(605,290)	1,067,836
	Vehicles	590,523	-	-	590,523
	Furniture & Fixture	919,772	96,203	-	1,015,975
	Office Equipment	495,972	105,183	(83,200)	517,955
	Electric Installation	46,979	-	-	46,979
	Fans & Air-Coolers	39,580	-	-	39,580
	Survey Instruments	16,425,912	-	(1,697,673)	14,728,239
	Cycle	680	-	-	680
	Library Books	40,885	-	-	40,885
	Vessel Speed Boat	4,021,123	-	-	4,021,123
	Generator Set	36,100	27,460	-	63,560
	Computer	4,423,629	169,500	-	4,593,129
	Terminals- Pandu	1,275,460,968	8,904,263	-	1,284,365,231
	Night Navigation Equip.	12,460,554	-	-	12,460,554
	Barges	133,745,241	-	-	133,745,241
	Vessels - Ordinary	184,159,998	101,863,352	-	286,023,350
	Pandu Terminal	39,519,829	77,968,470	-	117,488,299
	Vessels Dredging Unit	1,281,599,620	1,088,960	-	1,282,688,580
	CRANE	44,969,796	-	-	44,969,796
	Air Conditioner	246,350	323,000	-	569,350
	RIS Equipment	-	4,207,723	-	4,207,723
	Building	-	-	-	-
	TOTAL (D)	3,000,876,637	194,754,114	(2,386,163)	3,193,244,588

**AUTHORITY OF INDIA
ASSETS AS ON 31.03.2017**

Annex.-B

DEPRECIATION		ADJUSTMENT ON ACCOUNT OF ASSETS SOLD/TRANSFERRED	TOTAL DEPRECIATION AS ON 31.03.2017 (7 + 8 + 9)	NET BLOCK AS ON 31.03.2017 (6 - 10)
AS ON	FOR THE			
31.3.2016	YEAR			
7	8	9	10	11
-	-	-	-	35,051,542
1,043,326	97,414	-	1,140,740	841,877
666,556	144,983	-	811,539	1,324,496
88,041	49,879	-	137,920	105,093
3,665	674	-	4,339	2,546
240,981	106,283	-	347,264	862,761
-	-	-	-	-
16,389	13,677	-	30,066	40,884
-	-	-	-	-
10,615,552	1,381,224	-	11,996,776	17,429,314
403,188,167	11,943,461	-	415,131,628	331,895,914
39,029,094	3,149,191	-	42,178,285	66,641,117
1,399,012	72,473	-	1,471,485	911,824
36,115,884	1,521,416	-	37,637,300	46,424,900
-	-	-	-	-
3,547,428	156,708	-	3,704,136	613,743
89,666	17,855	-	107,521	-
4,518,494	89,499	-	4,607,993	229,924
371,647	22,355	-	394,002	255,993
1,043,966	6,316	-	1,050,282	68,576
675,797	1,056,451	-	1,732,248	65,131,752
171,872,639	16,296,607	-	188,169,246	414,740,512
3,579,221	494,680	-	4,073,901	5,203,299
9,111,161	1,640,687	-	10,751,848	21,493,653
4,804,720	1,029,866	-	5,834,586	10,060,735
1,056,269	1,355,778	(208,360)	2,203,687	2,022,629
-	1,099,714	-	1,099,714	34,274,572
21,848,301	4,966,478	-	26,814,779	19,512,045
714,925,976	46,713,669	(208,360)	761,431,285	1,075,139,701
1,499,727	78,120	(579,458)	998,389	69,447
560,997	-	-	560,997	29,526
641,132	49,151	-	690,283	325,692
420,768	46,556	(79,040)	388,284	129,671
32,456	1,861	-	34,317	12,662
23,648	3,048	-	26,696	12,884
9,614,289	780,907	(1,605,610)	8,789,586	5,938,653
646	-	-	646	34
40,885	-	-	40,885	-
2,441,382	186,969	-	2,628,351	1,392,772
34,296	38	-	34,334	29,226
3,740,632	151,374	-	3,892,006	701,123
218,137,036	36,153,175	-	254,290,211	1,030,075,020
6,995,029	1,391,779	-	8,386,808	4,073,746
46,205,293	3,917,057	-	50,122,350	83,622,891
69,300,815	5,343,971	-	74,644,786	211,378,564
-	-	-	-	117,488,299
318,639,105	32,768,634	-	351,407,739	931,280,841
19,638,918	4,621,542	-	24,260,460	20,709,336
77,248	50,819	-	128,067	441,283
-	8,761	-	8,761	4,198,962
-	-	-	-	-
698,044,302	85,553,762	(2,264,108)	781,333,956	2,411,910,632

INLAND WATERWAYS SCHEDULE OF FIXED

	PARTICULARS	GROSS BLOCK AS ON 31.03.2016	ADDITIONS DURING THE YEAR	ADJUSTMENT/ DEDUCTIONS	GROSS BLOCK AS ON 31.03.2017 (3+4+5)
1	2	3	4	5	6
BHAGALPUR	Buoys	54,467			54,467
	Vehicle	152,658			152,658
	Furniture & Fixtures	251,412	-	-	251,412
	Office Equipment	127,590			127,590
	Electric Installation	3,227			3,227
	Fans & Air Coolers	25,819			25,819
	Survey Instruments	2,585,423	-		2,585,423
	Barges	561,255			561,255
	Cycle	701			701
	Library Books	25,805	-		25,805
	Communication Equipment	157,026			157,026
	Land	36,734			36,734
	Computers	237,197	-		237,197
	DGPS STATION	18,320,308	-	-	18,320,308
	Terminals-	2,856,463	-	-	2,856,463
	Air-Conditioner	20,000	-		20,000
	TOTAL (E)	25,416,085	-	-	25,416,085
KOCHI	Furniture & Fixtures	1,016,793	182,027		1,198,820
	Office Equipment	416,268	8,300	(215,338)	209,230
	Fans & Air Coolers	56,885	-	(12,275)	44,610
	Air-Conditioner	67,595	-	(27,395)	40,200
	Survey Instruments	6,922,627	814,158	-	7,736,785
	Communication Equipment	734,727	-		734,727
	Generator	354,969	-		354,969
	Computer	2,067,046	48,300	(535,169)	1,580,177
	Survey Launch	5,464,584	-		5,464,584
	SPEED BOATS	1,120,418	-	-	1,120,418
	Land (Terminals)	192,334,530	3,040,593	-	195,375,123
	Land Widening	45,767,583	-	(9,284,593)	36,482,990
	Library Books	19,847	-		19,847
	Building	8,390,016	-		8,390,016
	Terminal & Building	339,961,010	6,963,345	(372,040)	346,552,315
	Dredger	185,525,953	-	-	185,525,953
	Night Navigation	36,624,825	3,964,853	(115,625)	40,474,053
	Foot Over Bridge Thottappally	2,188,615	-		2,188,615
	Fork Lifts	6,370,925	-		6,370,925
	Hydraulic Cranes	68,945,177			68,945,177
	Electrical Installations		1,367,056		1,367,056
	Temporary Terminal	1,196,370	-		1,196,370
	Computer Software	1,967,611	-		1,967,611
	TOTAL (F)	907,514,374	16,368,632	(10,562,435)	913,340,571
ALLAHABAD	Computer	475,291	-	-	475,291
	Furniture & Fixtures	154,339			154,339
	Office Equipment	63,554			63,554
	Fans & Air Coolers	12,155			12,155
	Library Books	39,310	5,536		44,846
	Electrical Installation	1,074,339	-		1,074,339
	Land	2,405,763			2,405,763
	TERMINAL	5,882,942	-		5,882,942
	Survey Instruments	2,284,447	-	-	2,284,447
	TOTAL (G)	12,392,140	5,536	-	12,397,676
VARANASI	Furniture & Fixtures	176,607			176,607
	Computer	364,695			364,695
	Office Equipment	68,287			68,287
	Fans & Air Coolers	7,225			7,225
	Vehicle	243,069			243,069
	Communication Equipment	-	-	-	-
	Library book	5,520			5,520
	DGPS Station		9,536,935		9,536,935
	Survey Instruments	2,971,849	-	-	2,971,849
	TOTAL (H)	3,837,252	9,536,935	-	13,374,187

Annual Report 2016-17



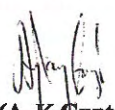
AUTHORITY OF INDIA ASSETS AS ON 31.03.2017

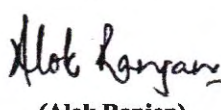
Annex.-B

DEPRECIATION		ADJUSTMENT ON	TOTAL	NET BLOCK
AS ON	FOR THE	ACCOUNT OF ASSETS	DEPRECIATION	AS ON
31.3.2016	YEAR	SOLD/TRANSFERRED	AS ON 31.03.2017	31.03.2017
7	8	9	(7 + 8 + 9)	(6 - 10)
52,612	-	(868)	51,744	2,723
151,776	-	(6,751)	145,025	7,633
167,539	8,904	(6,790)	169,653	81,759
54,693	15,590	(2,615)	67,668	59,922
2,564	-	502	3,066	161
8,209	1,827	(100)	9,936	15,883
2,020,993	65,570	(45,446)	2,041,117	544,306
554,410	-	(21,218)	533,192	28,063
682	-	(16)	666	35
25,805	-	(1,290)	24,515	1,290
157,026	-	(7,851)	149,175	7,851
-	-	-	-	36,734
227,861	8,835	(10,560)	226,136	11,061
6,104,716	1,028,259	-	7,132,975	11,187,333
512,200	81,863	-	594,063	2,262,400
3,800	1,920	-	5,720	14,280
10,044,886	1,212,768	(103,003)	11,154,651	14,261,434
658,377	47,663	-	706,040	492,780
320,999	22,427	(204,571)	138,855	70,375
44,269	2,230	(11,661)	34,838	9,772
64,215	-	(26,025)	38,190	2,010
3,351,078	541,903	-	3,892,981	3,843,804
697,991	-	-	697,991	36,736
181,463	30,784	-	212,247	142,722
1,749,443	189,968	(508,409)	1,431,002	149,175
3,108,417	307,672	-	3,416,089	2,048,495
846,592	54,451	-	901,043	219,375
-	-	-	-	195,375,123
-	-	-	-	36,482,990
19,847	-	-	19,847	-
1,029,650	138,817	-	1,168,467	7,221,549
104,083,232	7,265,422	1,895,579	113,244,233	233,308,082
61,516,052	4,630,444	-	66,146,496	119,379,457
16,602,020	3,168,496	354,786	20,125,302	20,348,751
975,250	54,743	-	1,029,993	1,158,622
3,953,251	349,855	-	4,303,106	2,067,819
41,606,903	3,819,798	-	45,426,701	23,518,476
-	26,330	-	26,330	1,340,726
1,196,370	-	-	1,196,370	-
1,935,350	-	-	1,935,350	32,261
243,940,769	20,651,003	1,499,699	266,091,471	647,249,100
365,456	56,844	-	422,300	52,991
146,622	-	-	146,622	7,717
60,376	-	-	60,376	3,178
11,547	-	-	11,547	608
39,310	5,536	-	44,846	-
119,845	103,798	-	223,643	850,696
-	-	-	-	2,405,763
1,014,264	182,730	-	1,196,994	4,685,948
1,384,334	216,438	-	1,600,772	683,675
3,141,754	565,346	-	3,707,100	8,690,576
127,687	4,009	-	131,696	44,911
310,873	11,851	-	322,724	41,971
53,480	2,278	-	55,758	12,529
5,709	124	-	5,833	1,392
230,916	-	-	230,916	12,153
-	-	-	-	-
5,520	-	-	5,520	-
-	-	-	-	9,536,935
1,343,840	242,263	-	1,586,103	1,385,746
2,078,025	260,525	-	2,338,550	11,035,637

INLAND WATERWAYS SCHEDULE OF FIXED

	PARTICULARS	GROSS BLOCK AS ON 31.03.2016	ADDITIONS DURING THE YEAR	ADJUSTMENT/ DEDUCTIONS	GROSS BLOCK AS ON 31.03.2017
1	2	3	4	5	(3+4+5) 6
NINI	Furniture & Fixtures	5,031,121	-	-	5,031,121
	Generator Set	657,371	-	-	657,371
	Computer	1,477,002	-	-	1,477,002
	Office Equipment	1,252,179	76,765	-	1,328,944
	Air Conditioner	1,237,281	-	-	1,237,281
	Building/Workshop	101,631,075	12,108,000	-	113,739,075
	Hostel & kitchen	606,957	-	-	606,957
	Work SHOP EQUIPMENT	402,778	-	-	402,778
	Fire Mock up Equipments	5,237,144	-	-	5,237,144
	FRP Boat with OBM	528,962	-	-	528,962
	Water Cooler& Refrigerator	367,573	-	-	367,573
	Temporay Structure	1,661,542	-	-	1,661,542
	Course Material & Equipments	529,999	-	-	529,999
	SIMULATOR	31,731,375	-	-	31,731,375
	Library book	1,256,603	343,320	-	1,599,923
	Computer Software	6,002,388	-	-	6,002,388
	Electric Installation	494,676	-	-	494,676
	Fans & Air Coolers	90,545	-	-	90,545
	Survey Instruments	2,953,202	-	2,302,963	5,256,165
	Vessel (Buxar,Ghoghra)	41,450	-	-	41,450
	LAND	152,450,100	-	-	152,450,100
	TOTAL (I)	315,641,323	12,528,085	2,302,963	330,472,371
JMVP	Furniture & Fixtures	6,072,172	57,523	-	6,129,695
	Computer	2,057,072	222,800	-	2,279,872
	Office Equipment	1,794,973	76,739	-	1,871,712
	Library book	3,065	4,970	-	8,035
	Computer Software	147,315	173,996	-	321,311
	Temporay Structure	9,037,112	-	-	9,037,112
	Electric Installation	2,549,577	-	-	2,549,577
	Kitchen Equipment	-	8,720	-	8,720
	Fan & Air Coolers	-	11,225	-	11,225
	Furniture & Fixture-Kolkata	208,049	-	-	208,049
	Lease Land -Kolkata	401,779,993	-	(18,972,944)	382,807,049
	Land -Farakka-Kolkata	23,580,160	-	-	23,580,160
	Computer-Kolkata	-	130,894	-	130,894
	LAND-Varanasi	52,102,406	757,890,115	-	809,992,521
	LAND-Sahibganj	-	1,171,935,919	-	1,171,935,919
	TOTAL (K)	499,331,894	1,930,512,901	(18,972,944)	2,410,871,851
NW-4	Computer	231,913	-	-	231,913
	Furniture & Fixtures	339,866	-	-	339,866
	Air Conditioner	116,000	-	-	116,000
	TOTAL (L)	687,779	-	-	687,779
NW-5	Computer	52,000	133,100	-	185,100
	Furniture & Fixtures	154,862	139,033	-	293,895
	Water Cooler& Refrigerator	34,000	-	-	34,000
	Office Equipment	-	81,345	-	81,345
	Air Conditioner	53,000	50,300	-	103,300
	TOTAL (M)	293,862	403,778	-	697,640
	GRAND TOTAL (A+B+C+D+E+F+G+H+J+K+L+M)	8,281,225,160	2,238,282,465	(36,831,531)	10,482,676,094
	PREVIOUS YEAR	6,784,036,815	1,200,438,217	(129,116,631)	7,855,358,401


(A. K. Gupta)
Chief Accounts Officer


(Alok Ranjan)
Member (Finance)

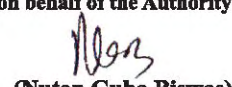
**AUTHORITY OF INDIA
ASSETS AS ON 31.03.2017**

Annex.-B

DEPRECIATION		ADJUSTMENT ON ACCOUNT OF ASSETS SOLD/TRANSFERRED	TOTAL DEPRECIATION	NET BLOCK
AS ON 31.3.2016	FOR THE YEAR		AS ON 31.03.2017 (7 + 8 + 9)	AS ON 31.03.2017 (6 - 10)
7	8	9	10	11
3,601,731	143,754	-	3,745,485	1,285,636
413,732	70,321	-	484,053	173,318
1,370,768	32,385	-	1,403,153	73,849
992,389	136,105	-	1,128,494	200,450
784,815	79,205	(2)	864,018	373,263
13,025,465	1,781,620	-	14,807,085	98,931,990
472,983	100,816	-	573,799	33,158
124,286	26,579	-	150,865	251,913
3,698,066	546,502	-	4,244,568	992,576
142,307	30,120	-	172,427	356,535
342,075	1,110	-	343,185	24,388
1,661,542	-	-	1,661,542	-
529,999	-	-	529,999	-
19,326,426	8,624,880	-	27,951,306	3,780,069
1,256,603	343,320	-	1,599,923	-
2,968,045	911,408	-	3,879,453	2,122,935
88,002	50,033	-	138,035	356,641
13,496	8,928	-	22,424	68,121
2,805,539	-	2,185,068	4,990,607	265,558
-	-	-	-	41,450
-	-	-	-	152,450,100
53,618,269	12,887,086	2,185,068	68,690,421	261,781,950
582,063	576,932	-	1,158,995	4,970,700
721,809	672,852	-	1,394,661	885,211
341,044	345,172	-	686,216	1,185,496
3,065	4,970	-	8,035	-
46,650	97,673	-	144,323	176,988
9,037,112	-	-	9,037,112	-
242,210	242,210	-	484,420	2,065,157
-	1,593	-	1,593	7,127
-	2,033	-	2,033	9,192
19,765	19,765	-	39,530	168,519
-	-	-	-	382,807,049
-	-	-	-	23,580,160
-	13,893	-	13,893	117,001
-	-	-	-	809,992,521
-	-	-	-	1,171,935,919
10,993,718	1,977,093	-	12,970,811	2,397,901,040
85,492	72,260	-	157,752	74,161
32,287	32,287	-	64,574	275,292
12,224	10,992	-	23,216	92,784
130,003	115,539	-	245,542	442,237
16,468	18,314	-	34,782	150,318
14,712	18,148	-	32,860	261,035
6,460	6,460	-	12,920	21,080
-	4,227	-	4,227	77,118
5,035	6,920	-	11,955	91,345
42,675	54,069	-	96,744	600,896
2,160,444,152	218,986,439	642,459	2,380,073,050	8,102,803,044
1,941,219,177	221,984,444	(2,475,726)	2,160,727,895	5,694,552,098

For and on behalf of the Authority


(Pravir Pandey)
Vice-Chairman


(Nutan Guha Biswas)
Chairperson

SIGNIFICANT ACCOUNTING POLICIES

1. Basis of Preparation of Financial Statements

The financial statements are prepared in accordance with Indian Generally Accepted Accounting Principles (GAAP) under the historical cost convention on the accrual basis except reported otherwise.

2. IWAI FUND U/S 19

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

- a. Any Grants 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 sum received by the Authority from Government may give in writing to it, periodically.
- d. Any other grants received.
- e. Any surplus of "Income and Expenditure Accounts"

These 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. WDV of Fixed assets which is sold during the year and the assets have been purchased earlier out of capital grant.
- d. Any deficit of "Income and expenditure" Account.

3. Government Grants

Revenue Grants: Government grants related to revenue i.e. for employee cost and general administrative 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.

4. Fixed Assets

- a. Fixed asset 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. Fixed assets 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 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

Stores, Spares and tools (including machinery spares) 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 Accounting Standard issued by ICAI.

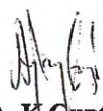
10. Prior period adjustments

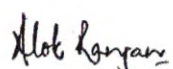
Income or expenditure more than Rs. 25,000/- each for items relating to previous year(s) is credited/debited as the case may be to this account.

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.

For and on behalf of the Authority


(A. K. Gupta)
Chief Accounts Officer


(Alok Ranjan)
Member (Finance)


(Pravir Pandey)
Vice-Chairman


(Nutan Guha Biswas)
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 2017

We have audited the attached Balance Sheet of Inland Waterways Authority of India (Authority) as at 31 March 2017 and the Income and Expenditure 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 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:

General

Ministry of External Affairs (MEA), Government of India through an agreement (March 2009) appointed the Inland Waterways Authority of India (IWAI) as Project Development Consultant 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 at the approved cost of 535.91 crore. As per the agreement Project Development Consultancy/management fee (PDC Fee) was payable by MEA to IWAI in instalments, as per the deliverables/specific milestones of the project. IWAI has prepared separate books of accounts of Kaladan Project for the year 2016-17 which have been kept outside the books of accounts of IWAI.

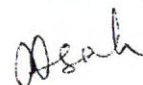
As per disclosure made in Note 16 of Notes to accounts of IWAI for the year 2016-17, the IWAI received PDC Fee of ₹22.61 crore for the project till 31-03-2017. The Note 16 further disclosed that out of ₹ 22.61 crore plus internal receipts (including bank interest) of ₹ 2.20 crore, an expenditure of ₹ 23.23 crore had been incurred. These facts and figures were, however, not verifiable from the Balance Sheet of 'Kaladan Project' being maintained separately and kept outside the accounts of IWAI for year 2016-17.

Further, the amount of ₹ 22.61 crore received from MEA included an amount of ₹ 3.10 crore which MEA reimbursed during year 2016-17 towards Service Tax and hydrographic survey. The service Tax and hydrographic survey charges were payable to IWAI in addition to PDC fee. Thus, the disclosure made in Note No. 16 of Notes to Accounts of IWAI was deficient to the extent that PDC Fee received by IWAI till 31-03-2017 was overstated to the extent of ₹ 3.10 crore.

As the accounts of Kaladan Project kept outside the accounts of IWAI for year 2016-17 were not produced to Audit for undertaking audit, Audit was unable to comment on its impact on the accounts of IWAI for the year 2016-17.

- iv. Subject to our observations in the preceding paragraphs, we report that the Balance Sheet and Income and Expenditure 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 matters 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 2017; and
- b) In so far as it relates to the Income and Expenditure Account, of the deficit for the year ended on 31 March 2017.

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



**(Neelesh Kumar Sah)
Principal Director of Commercial Audit
& Ex-Officio Member, Audit Board-I,
New Delhi**

Place: New Delhi

Dated: 9 February 2018

Annexure

(to the Audit Report on the Annual Accounts of Inland Waterways Authority of India for the year 2016-17)

1. Internal Audit System

The internal Audit system of Authority needed to be strengthened further.

2. Internal Control System

As advances given to various parties were lying unsettled for more than three years, the Internal Control System needed to be strengthened further.

3. System of physical verification of Fixed Assets

The following deficiencies were observed in the Fixed Assets records :

- The physical verification of fixed assets available at Corporate Office of Authority as on 31 March 2017 was not carried out.
- Fixed Assets Register was not being maintained properly.

4. System of Physical verification of Inventory

The physical verification of inventory available at Corporate Office of the Authority as on 31 March 2017 was not carried out.

5. Regularity in payment of Statutory Dues

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

Management replies to the Comments of Comptroller & Auditor General of India on the Accounts of Inland Waterways Authority of India for the year ended 31 March, 2017

General

As disclosed in Note 16 (Schedule-17) of Notes forming part of accounts of Inland Waterways Authority of India (IWAI) for the year 2016-17, an expenditure of Rs 23.23 crore as Project Development Consultant has been incurred on Kaladan Project out of Rs 22.61 received from Ministry of External Affairs (MEA) and internal receipt of Rs 2.20 crore including bank interest generated on the project ending March, 2017. However, out of this Rs 22.61 crore, an amount of Rs 3.10 crore has been received from MEA during the year 2016-17 as reimbursement towards Service tax and hydrographic survey which has been as rightly pointed out by audit, that "Project Development Consultancy /management fee (PDC Fee) have been overstated by Rs 3.10 crore in this Note 16". Accordingly, henceforth the position of PDC Fee and other reimbursements etc. received from MEA will be disclosed separately in the relevant Note to the accounts of IWAI for the ensuing years.

Further, components of annual accounts of the above Project were not included in the accounts of IWAI (as disclosed in ibid Note 16) to enable IWAI to incur expenditure on this project from the funds received from the MEA as expenditure on this Project cannot met from the Grants received by IWAI for National Waterways. But IWAI has maintained separate books of accounts for this project and separate annual accounts for this project duly certified by an Independent Chartered Accountant Firm have also been prepared since 2009. However, these separate annual accounts of Kaladan project will be attached as **Annexure** to the annual accounts of IWAI for the year ended 31 March, 2018 thereby making them available to Audit for their scrutiny also.

1. Internal Audit System

IWAI will continue its efforts to strengthen Internal Audit System further.

2. Internal Control System

Efforts will be made to settle the advances which are lying unsettled for more than three years and Internal Control System will be strengthened further.

3. System of physical verification of Fixed Assets

- For carrying out physical verification of fixed assets available at Corporate Office Noida, a Committee has been re-constituted by the Administration Wing and work will be completed very soon.
- The shortcomings noticed by Audit in maintenance of Fixed Assets Register shall be attended to so as to ensure its proper maintenance.

4. System of Physical verification of Inventory

Same reply as given above in respect of first bullet point under Sl. No 3.

5. Regularity in payment of Statutory Dues

No comments.



INLAND WATERWAYS AUTHORITY OF INDIA

A-13, Sector-1, NOIDA-201 301, Distt. Gautam Budh Nagar (U.P.)

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