

GOVERNMENT OF INDIA  
MINISTRY OF PORTS, SHIPPING AND WATERWAYS  
**LOK SABHA**  
**STARRED QUESTION NO- \*170**  
ANSWERED ON - 02.08.2024

**CARGO MOVEMENT THROUGH WATERWAYS**

\*170. SHRI BIPLAB KUMAR DEB:  
SHRI SHANKAR LALWANI:

Will the Minister of PORTS, SHIPPING AND WATERWAYS be pleased to state:

पत्तन, पोत परिवहन और जलमार्ग मंत्री

(a) the details of cargo movement through National Waterways and other waterways since 2013-14 till date, year-wise;

(b) the steps taken by the Government to increase cargo movement through National Waterways; and

(c) whether the Government is considering to develop new National Waterways and if so, the details thereof?

**ANSWER**

MINISTER OF PORTS, SHIPPING AND WATERWAYS  
(SHRI SARBANANDA SONOWAL)

(a) to (c) A Statement is laid on the Table of the House.

**STATEMENT REFERRED TO IN REPLY TO PARTS (a) TO (c) OF LOK SABHA STARRED QUESTION NO. \*170 FOR ANSWER ON 02.08.2024 RAISED BY SHRI BIPLAB KUMAR DEB AND SHRI SHANKAR LALWANI, HON'BLE MPS REGARDING "CARGO MOVEMENT THROUGH WATERWAYS"**

(a) The details of cargo movement through National Waterways (NWs) since 2013-14 till 2023-24, year-wise are attached as **Annexure-1**.

(b) The steps taken by the Government to increase cargo movement through National Waterways are at **Annexure-2**.

(c) Yes. In addition to development of 5 NWs (NW-1 to NW-5), Phase-I development of 14 new NWs in the States of Kerala, Andhra Pradesh, Odisha, Goa, West Bengal, Uttar Pradesh, Bihar, Maharashtra & Assam has been sanctioned by the Government, details of which are at **Annexure-3**.

The Details of Cargo Movement

<b>Data on Cargo Movement on National Waterways {2013-14 to 2023-24 (in Million Tons)}</b>											
<b>National Waterways (NWs)</b>	<b>2013-14</b>	<b>2014-15</b>	<b>2015-16</b>	<b>2016-17</b>	<b>2017-18</b>	<b>2018-19</b>	<b>2019-20</b>	<b>2020-21</b>	<b>2021-22</b>	<b>2022-23</b>	<b>2023-24</b>
NW-1 {Ganga-Bhagirathi-Hooghly River System (Haldia-Allahabad)}	3.35	5.05	6.48	4.89	5.48	6.79	9.11	9.21	10.93	13.17	12.82
NW-2 {Brahmaputra River (Dhubri-Sadiya)}	2.48	0.51	0.60	0.61	0.56	0.49	0.39	0.31	0.43	0.63	0.59
NW-3 (West Coast Canal)	1.07	0.96	1.06	1.03	0.42	0.42	0.55	0.73	1.70	3.23	3.29
NW-4 (Krishna Godavari River Systems)						0.45	0.08	6.83	11.23	8.42	4.30
NW-5 (East Coast Canal And Matai River/ Brahmani-Kharsua-Dhamra Rivers/ Mahanadi Delta Rivers)									0.02	0.40	0.64
NW-8 (Alappuzha-Changanassery Canal)										0.03	0.04
NW-9 (Alappuzha-Kottayam Athirampuzha Canal)										0.02	0.02
NW-14 (Baitarni River)										-	0.001
NW-16 (Barak River)							0.00	0.00	0.01	0.01	0.003
NW-23 (Budha Balanga)										0.03	0.02

NW-31 (Dhansiri/Chathe)											0.01	
NW-44 (Ichamati River)							0.90	0.28	0.82	0.46	0.48	
NW-64 (Mahanadi River)							-	-	0.02	0.45	0.67	
NW-86 (Rupnarayan River)							-	0.00	0.00	0.09	0.10	
NW-94 (Sone River)							0.80	-	-	-	1.16	
NW-97 (Sunderbans Waterway)							3.22	3.46	3.86	6.10	5.47	5.19
<b>Sub Total (National Waterways 1, 2, 3, 4, 5, 8, 9, 14, 16, 23, 31, 44, 64, 86, 94, &amp; 97)</b>	<b>6.89</b>	<b>6.52</b>	<b>8.14</b>	<b>6.53</b>	<b>6.46</b>	<b>11.38</b>	<b>15.30</b>	<b>21.22</b>	<b>31.24</b>	<b>32.41</b>	<b>29.34</b>	
<b>Maharashtra Waterways</b>		-										
NW-10 (Amba River)		-					22.24	22.01	17.69	20.23	28.54	30.17
NW-83 (Rajpuri Creek)		-					0.85	0.67	0.21	0.23	0.24	0.45
NW-85 (Revadanda Creek-Kundalika River System)		-					1.72	1.59	1.08	0.70	0.50	0.99
NW-91 (Shastri River - Jaigad Creek System)		-					3.53	0.12	9.24	22.45	33.87	37.05
<b>TOTAL Maharashtra Waterways</b>	<b>10.18</b>	<b>22.54</b>	<b>28.85</b>	<b>33.29</b>	<b>25.96</b>	<b>28.34</b>	<b>24.39</b>	<b>28.21</b>	<b>43.61</b>	<b>63.15</b>	<b>68.66</b>	
<b>Goa Waterways</b>												
NW-68 (Mandovi River)							1.65	1.58	4.00	2.62	2.54	2.42
NW-111 (Zuari River)							2.10	1.36	4.47	1.96	0.39	1.10
<b>TOTAL Goa Waterways</b>	<b>1.00</b>	<b>0.10</b>	<b>4.54</b>	<b>15.65</b>	<b>11.09</b>	<b>3.76</b>	<b>2.93</b>	<b>8.46</b>	<b>4.58</b>	<b>2.93</b>	<b>3.52</b>	
<b>Gujarat Waterways</b>												
NW-73 (Narmada)		-					0.04	0.10	0.08	0.05	0.04	0.06

River)											
NW-100 (Tapi River)		-				28.78	30.92	25.63	29.32	27.62	31.46
<b>TOTAL Gujarat Waterways</b>		-			<b>11.52</b>	<b>28.82</b>	<b>31.02</b>	<b>25.71</b>	<b>29.37</b>	<b>27.66</b>	<b>31.51</b>
<b>Grand Total Million Tonnes</b>	<b>18.07</b>	<b>29.16</b>	<b>41.53</b>	<b>55.47</b>	<b>55.03</b>	<b>72.30</b>	<b>73.64</b>	<b>83.61</b>	<b>108.79</b>	<b>126.15</b>	<b>133.03</b>
IBP	1.89	2.00	2.28	2.58	3.09	3.22	3.46	3.60	5.43	5.20	<b>4.70</b>

**STEPS TAKEN TO INCREASE CARGO MOVEMENT THROUGH NATIONAL WATERWAYS**

**1. Fairway development works:**

Fairway development works to ensure Least Available Depth (LAD) of 3.0 meter in Haldia-Barh, 2.5 meter in Barh-Ghazipur and 2.2 meter in Ghazipur-Varanasi stretches on NW-1 are in progress under the Jal Marg Vikas Project (JMVP) which has been undertaken by Inland Waterways Authority of India (IWAI) with technical and financial assistance from World Bank. Similarly, to improve the connectivity between NW-1 and NW-2/NW-16 via the Indo-Bangladesh Protocol (IBP) route, fairway development in the critical and shallow stretches between Sirajganj and Daikhowa on protocol route No.1 & 2 and Ashuganj and Zakiganj on protocol route No. 3 & 4 in Bangladesh are taken up by India and Bangladesh for round the year navigability (with targeted LAD of 2.5 mtrs). Similarly, fairway development works are carried out on NW-97 in Sunderbans to allow smooth navigation of vessels on the Indo-Bangladesh Protocol Route.

**2. Development of New National Waterways:**

IWAI has identified 26 new NWs through techno-economic feasibility studies for undertaking technical interventions to make the waterways navigable for transportation purpose. Once ready, these new waterways may provide an alternate mode of transportation in respective geographies.

**3. Ro-Ro/Ro-Pax Service Commenced in Various National Waterways:**

The Operation of Ro-Ro/Ro-Pax vessels was inaugurated by Hon'ble Prime Minister in the month of February-2021 for the following routes:

<b>Vessel Name</b>	<b>Ro-Ro/Ro-Pax Services between</b>	<b>Date of Inauguration by Hon'ble Prime Minister</b>
MV Rani Gaidinliu & MV Sachin Dev Barman	Neamati and Kamalabari (Majuli)	18.02.2021
MV JFR Jacob	Guwahati and North Guwahati	18.02.2021
MV Bob Khathing	Dhubri and Fakirganj (U/S Hatsingimari)	18.02.2021
MV Adi Shankara & MV C.V. Raman	Wellington Island and Bolghaty	14.02.2021

Hybrid Electric Catamaran Vessels MV Nishadraj & MV Guh has been handed over to Tourism Department, Government of U.P. on 13.03.2024 and 15.03.2024 respectively by IWAI for operations in Varanasi & Ayodhya.

#### **4. Revision of Levy & Collection of Fees:**

Taking ahead the vision of the Government of India to promote Inland Waterways as a supplementary mode of transport, the Ministry of Ports, Shipping and Waterways has considered waiver of waterway user charges initially for a period of three years.

#### **5. Digital solutions for Ease-Of-Doing Business:**

- **CAR-D (Cargo Data) Portal:** CAR-D is a web-based portal for collection & compilation, analysis and dissemination of all cargo and cruise movement data of National Waterways to the stakeholders.
- **PANI (Portal for Asset & Navigation Information):** PANI is an integrated solution bringing river navigation and infrastructure information on a single platform.

It provides detailed information of various features of National Waterways and the assets such as fairway, infrastructure facilities, cross-river structures, connectivity at jetties, emergency services for facilitating transportation of cargo.

These solutions increase collaboration across divergent stakeholders, improve organizational consistency, increased resource agility, enhances ownership and accountability for each stakeholder leading to improved management of activities. By having public access to key work being done by IWAI for the sector, it will enhance IWAI's standing in the market and will increase trust in the sector.

#### **6. Enhanced regional trade using IWT mode:**

**a. Addition of new Ports of Call and routes in India and Bangladesh under PIWT&T:** With 7 new ports of call in addition to existing 6 on each side along with addition/ extension of 2 waterway routes in addition to existing 8 routes under PIWT&T between India and Bangladesh, the accessibility of IWT mode for trade between India and Bangladesh is expected to increase and result in growth of traffic on NWS. Maia Riverine Port has been operationalized and 5 trial movements between Sultanganj (Godagari-Rajshahi) through PIWT&T Route No. 5 & 6 have been completed.

**b. Trade between Bhutan and Bangladesh:** Stone exporters from Bhutan have identified Inland waterways as an alternate mode of transportation considering the benefits associated with waterways mode such as lower transportation cost, larger shipment size compared to road, avoiding congestion on land routes etc. The first movement under supervision of IWAI was successfully executed in July 2019. This trade using the IWT mode is expected to continue and reach a significant scale in the coming years.

## **7. Standard Operating Procedures (SOPs) for facilitating the Stakeholders to use Inland Water Transport and access the various information related to National Waterways:**

The list of Standard Operating Procedures (SOPs) for various NWs which are available at IWAI website is as given below:

- i. SOP of the Agreement on the use of Chattogram and Mongla Ports for movement of goods to and from India between the Government of the People's Republic of Bangladesh and the Government of Republic of India.
- ii. SOP of Memorandum of understanding (MoU) on Passenger and Cruise Services on the Coastal and Protocol Route between the Government of the People's Republic of Bangladesh and the Government of Republic of India.
- iii. SOP for the MoU on use of Inland Waterways for Transportation of Bilateral Trade and Transit cargoes between the Government of People's Republic of Bangladesh and the Government of Republic of India.
- iv. SOP for the Movement of Vessels on Protocol on Inland Water Transit and Trade (PIWT&T) to contain the spread of COVID19.
- v. SOP and Check List for Ro-Ro/Ro-Pax vessel operations on National Waterways.
- vi. SOP for Car-D Portal.

## **8. Following MoUs were signed during 2023-24 for cargo and cruise promotion:**

- a) An MoU was signed between Assam tourism, Sagarmala, IWT Assam and IWAI at Assam Administrative College, Guwahati for Development of Riverine Religious Tourism circuit in Brahmaputra on 19th May
- b) An MoU signed between IWAI and Department of Tourism, Government of Bihar, for operation & Management of Two IWAI Ro-Pax vessels MV Rajendra Prasad & MV Swami Paramhans on 24.07.2023
- c) An MoU between Numaligarh Refinery Limited (NRL) and IWAI was signed in the presence of Hon'ble Minister PSW for Transportation of Petroleum Products Cargo of Numaligarh Refinery using Inland Water transport on 24.8.2023 at Guwahati.
- d) An MoU between IWAI and UP Tourism was signed in the presence of Hon'ble Minister of PSW&A, for operation of 6 electric catamaran vessels at Ayodhya, Varanasi, and Mathura using Inland Water transport on 25.09.2023 at Varanasi.
- e) 10 Nos MoUs were signed during GMIS 2023 for enhancing cargo and river tourism. (between IWAI and Govt. of Odisha, Coal India Ltd. & Paradip Port Authority, Heritage River Journeys Pvt. Ltd., A to Z EXIM, Star Cement, Alaknanda Cruise line, Dredging Corporation of India, IIT Roorkee, Transport Department Dispur , Govt. of Assam, Yogayatan Ports Pvt. Ltd and between A to Z EXIM and Indo Bangladesh Chamber of Commerce & Industries).

**9. Stakeholder consultations:** IWAI carried out stakeholder consultations at six different locations (Kolkata, Kochi, Mumbai, Patna, Goa and Dhaka) in FY-20, 9 nos. during FY-22 and 06 nos. conference-cum-webinars in FY-23 and three Stakeholders meet / conference during FY-24 for cargo promotion .

- PM GatiShakti Multimodal Waterway Connectivity Summit held in Varanasi from 11<sup>th</sup> -12<sup>th</sup> November 2022 was attended by Hon'ble Union Minister of Ports, Shipping & Waterways (PSW), Hon'ble Chief Minister, Uttar Pradesh, Hon'ble Union Minister of Commerce, Hon'ble Ministers of State (PSW). This summit focussed on creating more awareness about the PM GatiShakti and 07 community jetties were inaugurated, and foundation stones laid for 08 community jetties on the Ganga River.
- Flagging off of world's longest river cruise and waterways development projects inaugurated and foundation stone was laid virtually by Hon'ble Prime Minister in the presence of Hon'ble Minister (PSW), Hon'ble Chief Minister of Uttar Pradesh on 13<sup>th</sup> January 2023 at Varanasi. The Ganga Vilas River Cruise successfully completed 3200 km voyage at Dibrugarh on the Brahmaputra via Indo-Bangladesh Protocol Route on 28.02.2023.
- Hon'ble Minister for Ports, Shipping & Waterways held a stakeholders meeting with Indo-Bangladesh-Bhutan IWT Operators at IWAI Dhubri Terminal in the presence of Chairman & Member (Tech), IWAI on 12.6.2023 for promotion of Inland Water Transport (IWT)
- 3rd Global Maritime India Summit 2023 was held from 17th to 19th October at Mumbai with participants from more than 70 countries.
- To accelerate the holistic development of Inland Waterway Transport in the country leading to enhanced cargo, passenger movement and river cruise tourism with active association of States, an Inland Waterways Development Council (IWDC) has been set up under the chairmanship of Hon'ble Minister of Ports, Shipping & Waterways and Ayush with representatives from the State Governments/Union Territories for the comprehensive development of National Waterways, other inland waterways and the associated ecosystem. The first meeting of IWDC was held at Kolkata on 8th January 2024.
- For exploring the possibility of further movement of cargo along NW-1, a meeting was chaired by Chairman, IWAI, in Kolkata on 04.05.2023 with Stakeholders.
- Hon'ble Minister (PSW) held a stakeholders meeting with Indo-Bangladesh-Bhutan IWT Operators at IWAI Dhubri on 12.6.2023.
- Stakeholders Conference on use of National Waterways for transportation was held at Kolkata on 27.03.2024. Besides other stakeholders, PSU's such as, BPCL, SCI, IFFCO, FCI, CONCOR, SAIL etc have attended.

#### **10. Interventions under the World Bank supported Jal Marg Vikas Project (JMVP):**

- **Jal Marg Vikas Project (JMVP)**, a flagship project of the Government of India being implemented by Inland Waterways Authority of India (IWAI) for capacity augmentation of National Waterway-1 (NW-1) from Varanasi to Haldia, with the technical and financial support of World Bank was approved by the CCEA on 3<sup>rd</sup> January, 2018 at a cost of Rs. 5369.18 Crores with the objective of developing NW-1 as an all-weather and reliable waterway-led multi-modal logistics network that connects the hinterlands of Uttar Pradesh, Bihar, Jharkhand and West Bengal with ports and coastal shipping. NW-1 further connects with Bangladesh and North Eastern States through Brahmaputra and Barak River systems via the waterways of the Indo-Bangladesh Protocol route.

- **JMVP-II (Arth Ganga)** is a project for the socio-economic upliftment of the population living around River Ganga i.e. NW-1 and has been undertaken for development on an approach based on the principles on the sustainable development model to energize economic activities which will impact on overall ecosystem along the riverbank. This can lead to inclusive growth and play a key role in improving the livelihoods of the populations with the transportation of goods and passengers (including tourist) through National Waterway-1. The project envisages a cost of Rs. 746.00 Crore.

**11. Interventions approved and undertaken for development of IWT infrastructure in other National Waterways:**

- i. Comprehensive Development of NW-2 (River Brahmaputra) at the cost of Rs. 474 Crore.
- ii. Construction of Ship Repair Facility at Pandu, Guwahati in Assam at the cost of Rs. 208 Crore & Alternate approach road to Pandu Port in Guwahati at the cost of Rs. 180 Crore.
- iii. Comprehensive Development of NW-16 (River Barak) & IBP Route at the cost of Rs. 148 Crore.
- iv. Phase-I development of 3 existing NWs and 13 new NWs at the cost of Rs. 267 Crore.

**List of new NWs sanctioned under Phase-I development**

<b>Sl. No.</b>	<b>National Waterways (NWs)</b>	<b>Investment Sanctioned (Rs. in cr.)</b>
1.	NW-8- Alappuzha-Changanassery Canal in Kerala	3
2.	NW-9- Alappuzha-Athirampuzha Canal in Kerala	3
3.	NW-27-Cumberjua River in Goa	15
4.	NW-68- Mandovi River in Goa	
5.	NW-111- Zuari River in Goa	
6.	NW-86- River Rupnarayan in West Bengal	20
7.	NW-97- Sundarbans Waterways in West Bengal	20
8.	NW-40- Ghaghra River in U.P. & Bihar	15
9.	NW-44- Ichamati River in West Bengal	10
10.	NW-10- Amba River in Maharashtra	10
11.	NW-28-Dabhol Creek Vashisthi River in Maharashtra	
12.	NW-57- Kopili River in Assam	32
13.	NW-31- Dhansiri River in Assam	84
14.	NW-16-River Barak in Assam	148

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