

GOVERNMENT OF INDIA
MINISTRY OF PORTS, SHIPPING & WATERWAYS
LOK SABHA
UNSTARRED QUESTION NO. 1016
ANSWERED ON 3RD DECEMBER, 2021

DEVELOPMENT OF NATIONAL WATERWAYS

1016. SHRI JAYANT SINHA:

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

पत्तन, पोत परिवहन और जलमार्ग मंत्री

- (a) the details of waterways declared National Waterways and development activities undertaken thereon in the country;
- (b) the estimated projections of cargo load carried through various means including inland shipping in 2021; and
- (c) the steps taken to boost inland shipping in view of the same?

ANSWER

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

- (a) To promote Inland Water Transport in the country 111 waterways (including 5 existing and 106 new) have been declared as National Waterways (NWs) under the National Waterways Act, 2016 which came into effect from 12 April, 2016. The details is at **Annex-I**. Based on the outcome of techno-economic feasibility and Detailed Project Reports (DPRs) of NWs, 25 NWs have been found viable by Inland Waterways Authority of India (IWAI) for cargo/ passenger movement. The list of the 25 NWs is at **Annex-II**. Developmental activities have been initiated in 13 NWs.
- (b) 83.61 Million Tones of cargo was transported on National Waterways in the year 2020-21. Approximately, 54.03 Million Tones of cargo has been transported on National Waterway during the period April, 2021 to October, 2021.
- (c) In addition to development activities on 13 NWs, the steps taken to boost inland shipping are detailed at **Annex-III**.

List of 111 National Waterways

(Government of India has declared 111 waterways as National Waterways through National Waterways Act, 2016 enacted on 12.04.2016).

Sl. No.	National Waterway No.	Length (km)	Details of Waterways	STATES
1	National Waterway 1	1620	Ganga-Bhagirathi-Hooghly River System (Haldia - Allahabad)	Uttar Pradesh, Bihar, Jharkhand & West Bengal
2	National Waterway 2	891	Brahmaputra River (Dhubri - Sadiya)	Assam
3	National Waterway 3	205	West Coast Canal (Kottapuram - Kollam), Champakara and Udyogmandal Canals	Kerala
		170	West Coast Canal (Kottapuram - Kozhikode)	
4	National Waterway 4	50	Kakinada Canal (Kakinada to Rajahmundry)	Andhra Pradesh, Telangana, Chhattisgarh, Karnataka, Tamil Nadu, Pondichery and Maharashtra
		171	Godavari river (Bhadrachalam to Rajahmundry)	
		139	Eluru Canal (Rajahmundry to Vijayawada)	
		157	Krishna river (Wazirabad to Vijayawada)	
		113	Commamur Canal (Vijayawada to Peddaganjam)	
		316	North Buckingham Canal (Peddaganjam to Central Station of Chennai)	
		110	South Buckingham canal (Central Station of Chennai to Marakanam)	
		22	Marakanam to Puducherry through Kaluvelly tank	
		1202	River Godavari (Bhadrachalam - Nashik)	
		636	River Krishna (Wazirabad - Galagali)	
5	National	256	East Coast Canal and	Odisha and

Sl. No.	National Waterway No.	Length (km)	Details of Waterways	STATES
	Waterway 5		Matai river	West Bengal
		265	Brahmani-Kharsua-Dhamra rivers	
		67	Mahanadi delta rivers (Consisting of Hansua river, Nunanala, Gobrinala, Kharnasi river and Mahanadi river)	
6	National Waterway 6	68	Aai River	Assam
7	National Waterway 7	90	Ajoy (Ajay) River	West Bengal
8	National Waterway 8	29	Alappuzha-Changanassery Canal	Kerala
9	National Waterway 9	40	Alappuzha- Kottayam – Athirampuzha Canal	Kerala Alternate route: 11.5km
10	National Waterway 10	45	Amba River	Maharashtra
11	National Waterway 11	99	Arunawati - Aran River System	Maharashtra
12	National Waterway 12	5.5	Asi River	Uttar Pradesh
13	National Waterway 13	11	Avm Canal	Kerala & Tamil Nadu
14	National Waterway 14	48	Baitarni River	Odisha
15	National Waterway 15	135	Bakreswar - Mayurakshi River System	West Bengal
16	National Waterway 16	121	Barak River	Assam
17	National Waterway 17	189	Beas River	Himachal Pradesh & Punjab
18	National Waterway 18	69	Beki River	Assam
19	National Waterway 19	67	Betwa River	Uttar Pradesh
20	National Waterway 20	95	Bhavani River	Tamil Nadu
21	National Waterway 21	139	Bheema River	Karnataka & Telangana
22	National Waterway 22	156	Birupa - BadiGenguti - Brahmani River System	Odisha
23	National Waterway 23	56	BudhaBalanga	Odisha
24	National Waterway 24	61	Chambal River	Uttar Pradesh
25	National Waterway 25	33	Chapora River	Goa

Sl. No.	National Waterway No.	Length (km)	Details of Waterways	STATES
26	National Waterway 26	51	Chenab River	Jammu & Kashmir
27	National Waterway 27	17	Cumberjua River	Goa
28	National Waterway 28	45	Dabhol Creek - Vashishti River System	Maharashtra
29	National Waterway 29	132	Damodar River	West Bengal
30	National Waterway 30	109	Dehing River	Assam
31	National Waterway 31	114	Dhansiri / Chathe	Assam
32	National Waterway 32	63	Dikhu River	Assam
33	National Waterway 33	61	Doyans River	Assam
34	National Waterway 34	137	Dvc Canal	West Bengal
35	National Waterway 35	108	Dwarekeswar River	West Bengal
36	National Waterway 36	119	Dwarka River	West Bengal
37	National Waterway 37	296	Gandak River	Bihar & Uttar Pradesh
38	National Waterway 38	62	Gangadhar River	Assam & West Bengal
39	National Waterway 39	49	Ganol River	Meghalaya
40	National Waterway 40	354	Ghaghra River	Bihar & Uttar Pradesh
41	National Waterway 41	112	Ghataprabha River	Karnataka
42	National Waterway 42	514	Gomti River	Uttar Pradesh
43	National Waterway 43	10	Gurupur River	Karnataka
44	National Waterway 44	63	Ichamati River	West Bengal
45	National Waterway 45	650	Indira Gandhi Canal	Punjab , Haryana & Rajasthan
46	National Waterway 46	35	Indus River	Jammu & Kashmir
47	National Waterway 47	131	Jalangi River	West Bengal
48	National Waterway 48	590	Jawai-Luni-Rann Of Kutch River System	Gujarat & Rajasthan
49	National Waterway 49	110	Jhelum River	Jammu & Kashmir
50	National Waterway 50	43	Jinjiram River	Assam & Meghalaya
51	National Waterway 51	23	Kabini River	Karnataka

Sl. No.	National Waterway No.	Length (km)	Details of Waterways	STATES
52	National Waterway 52	53	Kali River	Karnataka
53	National Waterway 53	145	Kalyan-Thane-Mumbai Waterway, Vasai Creek And Ulhas River System	Maharashtra
54	National Waterway 54	86	Karamnasa River	Bihar & Uttar Pradesh
55	National Waterway 55	311	Kaveri - Kollidam River System	Tamil Nadu
56	National Waterway 56	22	Kherkai River	Jharkhand
57	National Waterway 57	50	Kopili River	Assam
58	National Waterway 58	236	Kosi River	Bihar
59	National Waterway 59	19	Kottayam-Vaikom Canal	Kerala
60	National Waterway 60	80	Kumari River	West Bengal
61	National Waterway 61	28	Kynshi River	Meghalaya
62	National Waterway 62	86	Lohit River	Assam & Arunachal Pradesh
63	National Waterway 63	336	Luni River	Rajasthan
64	National Waterway 64	426	Mahanadi River	Odisha
65	National Waterway 65	80	Mahananda River	West Bengal
66	National Waterway 66	247	Mahi River	Gujarat
67	National Waterway 67	94	Malaprabha River	Karnataka
68	National Waterway 68	41	Mandovi River	Goa
69	National Waterway 69	5	Manimutharu River	Tamil Nadu
70	National Waterway 70	245	Manjara River	Maharashtra & Telangana
71	National Waterway 71	27	Mapusa / Moide River	Goa
72	National Waterway 72	59	Nag River	Maharashtra
73	National Waterway 73	226	Narmada River	Maharashtra & Gujarat
74	National Waterway 74	79	Netravathi River	Karnataka
75	National Waterway 75	142	Palar River	Tamil Nadu
76	National Waterway 76	23	Panchagangavali (Panchagangoli) River	Karnataka

Sl. No.	National Waterway No.	Length (km)	Details of Waterways	STATES
77	National Waterway 77	20	Pazhyar River	Tamil Nadu
78	National Waterway 78	262	Penganaga - Wardha River System	Maharashtra & Telangana
79	National Waterway 79	28	Pennar River	Andhra Pradesh
80	National Waterway 80	126	Ponniyar River	Tamil Nadu
81	National Waterway 81	35	Punpun River	Bihar
82	National Waterway 82	58	Puthimari River	Assam
83	National Waterway 83	31	Rajpuri Creek	Maharashtra
84	National Waterway 84	44	Ravi River	Jammu & Kashmir, Himachal Pradesh & Punjab
85	National Waterway 85	31	Revadanda Creek - Kundalika River System	Maharashtra
86	National Waterway 86	72	Rupnarayan River	West Bengal
87	National Waterway 87	210	Sabarmati River	Gujarat
88	National Waterway 88	14	Sal River	Goa
89	National Waterway 89	45	Savitri River (Bankot Creek)	Maharashtra
90	National Waterway 90	29	Sharavati River	Karnataka
91	National Waterway 91	52	Shastri River - Jaigad Creek System	Maharashtra
92	National Waterway 92	26	Silabati River	West Bengal
93	National Waterway 93	63	Simsang River	Meghalaya
94	National Waterway 94	141	Sone River	Bihar
95	National Waterway 95	106	Subansiri River	Assam
96	National Waterway 96	311	Subarnrekha River	Jharkhand, West Bengal & Odisha
97	National Waterway 97	172	Sunderbans Waterway	West Bengal
		56	Bidya River	West Bengal
		15	ChhotaKalagachi (ChhotoKalergachi) River	West Bengal
		7	Gomar River	West Bengal
		16	Haribhanga River	West Bengal

Sl. No.	National Waterway No.	Length (km)	Details of Waterways	STATES
		37	Hogla (Hogal)-Pathankhali River	West Bengal
		9	Kalindi (Kalandi) River	West Bengal
		22	Katakhali River	West Bengal
		99	Matla River	West Bengal
		28	Muri Ganga (Baratala) River	West Bengal
		53	Raimangal River	West Bengal
		14	Sahibkhali (Sahebkhali) River	West Bengal
		37	Saptamukhi River	West Bengal
		64	Thakurran River	West Bengal
98	National Waterway 98	377	Sutlej River	Himachal Pradesh & Punjab
99	National Waterway 99	62	Tamaraparani River	Tamil Nadu
100	National Waterway 100	436	Tapi River	Maharashtra & Gujarat
101	National Waterway 101	42	Tizu - Zungki Rivers	Nagaland
102	National Waterway 102	87	Tlwan (Dhaleswari River)	Assam & Mizoram
103	National Waterway 103	73	Tons River	Uttar Pradesh
104	National Waterway 104	232	Tungabhadra River	Karnataka, Telangana & Andhra Pradesh
105	National Waterway 105	15	Udayavara River	Karnataka
106	National Waterway 106	20	Umngot (Dawki) River	Meghalaya
107	National Waterway 107	46	Vaigai River	Tamil Nadu
108	National Waterway 108	53	Varuna River	Uttar Pradesh
109	National Waterway 109	166	Wainganga - Pranahita River System	Maharashtra & Telangana
110	National Waterway 110	1080	Yamuna River	Delhi, Haryana & Uttar Pradesh
111	National Waterway 111	50	Zuari River	Goa
	Total	20162.5		

**LIST OF 25 NATIONAL WATERWAYS FOUND FEASIBLE FOR CARGO
MOVEMENT**

Sl. No.	National Waterway No.	Details of Waterways	STATES	Status
1	National Waterway 1	Ganga-Bhagirathi-Hooghly River System (Haldia - Allahabad)	Uttar Pradesh, Bihar, Jharkhand & West Bengal	Development taken up with Assistance from World Bank Jal Marg Vikas Project
2	National Waterway 2	Brahmaputra River (Dhubri - Sadiya)	Assam	Development taken up as per approved SFC for FY 20-21 to 2024-25
3	National Waterway 16	Barak River	Assam	
4	National Waterway 3	West Coast Canal (Kottapuram - Kollam), Champakara and Udyogmandal Canals	Kerala	Mostly Operational Waterways and development and maintenance work taken up.
5	National Waterway 4	Krishna River (Vijayawada – Muktyala)	Andhra Pradesh	
6	National Waterway 5	Dhamra-Paradio via Mangalagadi to Pankopal	Odisha	
7	National Waterway 8	Alappuzha-Changanassery Canal	Kerala	
8	National Waterway 9	Alappuzha-Kottayam – Athirampuzha Canal	Kerala Alternate route: 11.5km	
9	National Waterway 27	Cumberjua River	Goa	
10	National Waterway 68	Mandovi River	Goa	
11	National Waterway 86	Rupnarayan River	West Bengal	
12	National Waterway 97	Sunderbans Waterway	West Bengal	
13	National Waterway 111	Zuari River	Goa	
14	National Waterway 10	Amba River	Maharashtra	Projects at appraisal stage.
15	National Waterway 40	Ghagra River	Bihar	

Sl. No.	National Waterway No.	Details of Waterways	STATES	Status
16	National Waterway 44	Ichamati River	West Bengal	
17	National Waterway 52	Kali River	Karnataka	
18	National Waterway 57	Kopili River	Assam	
19	National Waterway 25	Chapora River	Goa	
20	National Waterway 37	Gandak River	Bihar	
21	National Waterway 28	Dabhol Creek Vasisti River	Maharasht ra	Substantial cargo moves in tidal waters/river mouth under respective State maritime board. No interventions are contemplated by IWAI as of now.
22	National Waterway 73	Narmada River	Maharasht ra & Gujarat	
23	National Waterway 85	Revadanda Creek - Kundalika River System	Maharasht ra	
24	National Waterway 94	Sone River	Bihar	
25	National Waterway 100	Tapi River	Maharasht ra & Gujarat	

Steps Taken To Boost Inland Shipping

1. 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, will enhance IWAI's standing in the market and will increase trust in the sector.

2. OTHER INITIATIVES FOR GROWTH OF TRAFFIC ON NATIONAL WATERWAYS

1. 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.

2. 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 agreed to be added on each side along with addition/ extension of waterway 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.

b. Inclusion of IWT mode in the Indo-Nepal trade treaty: Inland waterways mode has been agreed for inclusion in the trade treaty between India and Nepal. This will allow Nepal bound cargo (coming from 3rd country via Kolkata port and India's exports) to take waterway up to Sahibganj MMT (Jharkhand), proposed Kalughat terminal near Patna (Bihar) and Varanasi MMT (UP) and further movement to Nepal via road.

c. 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.

3. 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 National Waterways which are available at IWAI website is as given below:

- i. Standard Operating Procedures (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. Standard Operating Procedures (SOP) of 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. Standard Operating Procedures (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. Standard Operating Procedures (SOP) for the Movement of Vessels on Protocol on Inland Water Transit and Trade (PIWT&T) to contain the spread of COVID-19.
- v. Standard Operating Procedures (SOP) and Check List for Ro-Ro/ Ro-Pax vessel operations on National Waterways.
- vi. Standard Operating Procedures (SOP) for Car-D Portal.

4. Ro-Ro/Ro-Pax Service Commenced in Various National Waterways

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

1. Neamati and Kamalabari (Majuli) (Assam),
2. Guwahati and North Guwahati (Assam),
3. Dhubri and Fakirganj (U/S Hatsingimari) (Assam) and
4. Wellington Island and Bolghaty (Kerala).
