

GOVERNMENT OF INDIA
MINISTRY OF PORTS, SHIPPING AND WATERWAYS
LOK SABHA
UNSTARRED QUESTION NO- 4978
ANSWERED ON 01/04/2022

STUDY ON WATERWAY TRANSPORTATION

4978. SHRI DUSHYANT SINGH:

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

पत्तन, पोत परिवहन और जलमार्ग मंत्री

- (a) whether the Government is making optimal utilization of the potential of inland waterways transport infrastructure available in the country, if so, the details thereof and if not, the reasons therefor;
- (b) the details of proposed, developed completed and ongoing waterways projects;
- (c) whether the Government has conducted any study to ascertain the potential and feasibility of inland waterways transportation in recent past, if so, the details thereof;
- (d) whether any routes of Inland waterways have been identified as economically unviable in transportation of cargo and if so, the details thereof;
- (e) the details of the cargo transported and revenue generated through inland waterways during the year, 2015-2022, waterways-wise; and
- (f) the details of adverse effects on environment of rivers and communities who reside along rivers on account of development of inland waterways in the country?

ANSWER

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

(a) & (b) To promote inland water transport (IWT) in the country, 111 National Waterways (NWs) (including 5 existing and 106 new) were declared under the National Waterways Act, 2016. Based on the outcome of techno-economic feasibility and Detailed Project Reports (DPRs) prepared for NWs, action plan has been formulated for 26 NWs found viable for cargo/passenger movement (Details at **Annex-1**). Development activities have been initiated in the first 13 NWs out of the 26 viable NWs. In addition to above, the details of other waterways project approved under Sagarmala Programme for financial assistance is at **Annex-2**.

(c) Subsequent to declaration of 111 NWs, the following studies have been conducted by Inland Waterways Authority of India (IWAI) so far-

- (i) 1st stage Feasibility Studies of newly declared 106 NWs for assessing feasibility for navigation and
 - (ii) 2nd stage DPR studies for 36 NWs found feasible on the completion of 1st stage feasibility studies.
- (d) Based on the outcome of the above studies, 62 NWs have been identified as economically unviable for cargo transportation by ships and list of such waterways is at **Annex-3**.
- (e) Details of cargo transported through NWs during the year 2015-16 to 2021-22 and revenue generated by IWAI are detailed at **Annex-4**.
- (f) There is no adverse effects reported on environment of rivers and communities which reside along rivers on account of development of inland waterways in the country.

Annex-1

LIST OF 26 NATIONAL WATERWAYS FOUND FEASIBLE FOR CARGO / PASSENGER MOVEMENT:

SI No	National Waterway	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 2020-21 to 2024-25
3	National Waterway 16	Barak River	Assam	
4	National Waterway 3	West Coast Canal (Kottapuram - Kollam), Champakara and Udyogmandal Canals	Kerala	
5	National Waterway 4	Krishna River (Vijayawada - Muktyala)	Andhra Pradesh	Mostly Operational Waterways and development and maintenance work taken up.
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	
15	National Waterway 40	Ghagra River	Bihar	
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	Maharashtra
22	National Waterway 73	Narmada River	Maharashtra & Gujarat
23	National Waterway 85	Revadanda Creek - Kundalika River System	Maharashtra
24	National Waterway 94	Sone River	Bihar
25	National Waterway 100	Tapi River	Maharashtra & Gujarat
26	National Waterway 31	Dhansiri River	Assam

The details of other waterways project approved under Sagarmala Programme for financial assistance:

I. Maharashtra State:

S. No.	Name of Work on NW-53	Project cost (in Rs.)
(i)	Construction of jetty at Dombivali, Dist Thane	21,30,13,083/-
(ii)	Construction of jetty at Kolshet, Dist Thane	30,36,18,268/-
(iii)	Construction of jetty at Mira-Bhayander, Dist Thane	24,46,21,227/-
(iv)	Construction of jetty at Kalher, Dist Thane	23,55,42,490/-
	Total	99,67,95,068/-

II. Karnataka State:

S. No.	Name of Work	Project Cost (in Rs./Cr.)
1	Integrated Development Tadadi – Aghanashini Waterway in Kumta Taluka of Uttar Kannada District	20.00
2	Development of waterways from Almatti to Bagalkot in Karanataka (NW-41)	12.20
3	Development of waterways on Gurupur (NW-43) in Mangalore Taluka of Karnataka	29.62

<u>LIST OF NATIONAL WATERWAYS FOUND ECONOMICALLY UNVIALE IN TRANSPORTATION OF CARGO</u>				
Sl. No.	National Waterway (NW)	Length (km)	Name of Waterways	STATES
1	NW-11	98.9	Arunawati - Aran river system	Maharashtra
2	NW-12	5.5	Assi river	Uttar Pradesh
3	NW-13	11.3	AVM Canal	Kerala & Tamil Nadu
4	NW-17	189	Beas river	Himachal Pradesh & Punjab
5	NW-19	67.05	Betwa river	Uttar Pradesh
6	NW-21	138.9	Bheema river	Karnataka & Telangana
7	NW-22	152	Birupa / BadiGenguti / Brahmani River system	Odisha
8	NW-26	51.072	Chenab river	J&K
9	NW-32	63.205	Dikhu river	Assam
10	NW-33	61.368	Doyans river	Assam
11	NW-34	136	DVC Canal	West Bengal
12	NW-35	113	Dwarakeshwar river	West Bengal
13	NW-38	62	Gangadhar river	Assam & W.B
14	NW-39	49.143	Ganol river	Meghalaya
15	NW-41	111.76	Ghataprabha river	Kanataka
16	NW-43,	10.041	Gurupur river	Kanataka
17	NW-45	650.1	Indira Gandhi Canal	Punjab, Haryana and Rajasthan
18	NW-46	34.67	Indus river	Leh
19	NW-48	615.445	Jawai-Luni-Rann of Kutch river system	Gujarat and Rajasthan
20	NW-49	181.2	River Jhelum	Jammu & Kashmir
21	NW-51	23.56	Kabini river	Karnataka
22	NW-53	143	Vasai-Thane-Kalyan	Maharashtra
23	NW-54	86	Karamnasa river	Bihar & U.P.

24	NW-55	310	Kaveri-Kollidam river	Tamil Nadu and Maharashtra
25	NW-56	22.104	Kherkai river	Jharkhand
26	NW-58	236	River Kosi	Bihar
27	NW-59	18.78	Vechoor-Athirampuzha Canal	Kerala
28	NW-60	80.446	Kumari river	West Bengal
29	NW-61	27.87	Kynshi river	Meghalaya
30	NW-62	86	Lohit river	Assam and Arunachal Pradesh
31	NW-63	98	Luni river	Rajasthan
32	NW-64	98	Mahanadi Luna river	Odisha
33	NW-65	80.391	Mahananda river	West Bengal
34	NW-66	246.98	Mahi river	Gujarat
35	NW-67	93.5	Malaprabha river	Karnataka
36	NW-69	4.75	Manimutharu river	Tamil Nadu
37	NW-70	245	Manjira river	Maharashtra & Telangana
38	NW-71	26.638	Mapusa river	Goa
39	NW-72	58.7	Nag river	Maharashtra
40	NW-74	30	Netravathi river	Karnataka
41	NW-75	141	Palar river	Tamil Nadu
42	NW-76	23	Panchagangvali river	Karnataka
43	NW-77	20	Pazhyar River	Tamil Nadu & Andhra Pradesh
44	NW-78	261.51	Penganga - Wardha river system	Maharashtra & Telangana
45	NW-79	29	Pennar River	Andhra Pradesh
46	NW-80	125.5	Ponniyar River	Tamil Nadu
47	NW-81	34.61	Punpun river	Bihar
48	NW-82	58.234	Puthimari river	Assam
49	NW-84	44.276	Ravi river	Jammu & Kashmir, Himachal Pradesh & Punjab
50	NW-89	45.47	Savitri River	Maharashtra

51	NW-92	26	Silabati River	West Bengal
52	NW-93	62.6	Simsang river	Meghalaya
53	NW-96	30	Subarnarekha River	Odisha
54	NW-98	377	Sutlej river	Himachal Pradesh & Punjab
55	NW-99	64	Tamaraparani River	Tamil Nadu and Andhra Pradesh
56	NW-101	40.039	Tizu -Zungki river	Nagaland
57	NW-102	87.136	TIwang (Dhaleswari river	Assam & Mizoram
58	NW-103	73.25	Tons river	U.P.
59	NW-105	16	Udayavara River	Karnataka
60	NW-106	20.05	Umngot (Dawki) river	Meghalaya
61	NW-107	45.6	Vaigai river	Tamil Nadu
62	NW-109	165.78	Wainganga - Pranahita river system	Maharashtra & Telangana

Annex-4**(a) Cargo movement through National Waterways**

(In Million Tonnes)

Year	NW -1	NW-2	NW-3	NW-4	Goa Waterways	Maharashtra waterways-NW-10, 85 & 91	Gujarat waterways-NW-73 &100	Sunderban waterways-NW-96	Total
2015-16	6.48	0.60	1.06	-	-	-	-	-	8.14*
2016-17	4.89	0.61	1.03	-	15.65	33.29	NA	NA	55.47
2017-18	5.48	0.56	0.42	-	11.09	25.96	11.52	NA	55.03
2018-19	6.79	0.50	0.41	0.45	3.76	28.34	28.82	3.23	72.31
2019-20	9.11	0.39	0.55	-	2.93	24.39	31.02	3.50	73.65
2020-21	9.21	0.31	0.73	6.83	8.46	28.21	25.72	3.86	83.61
2021-22**	9.07	0.37	1.54	10.42	3.72	38.40	26.58	5.47	96.31

* Cargo volumes prior to declaration of 106 new National Waterways through National Waterways Act, 2016 on 12th April, 2016.

** Record of cargo movement till 28.02.2022.

(b) Revenue generated by IWAI:

Year	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
Revenue (Rs.in Lakh)	913.87	1249.12	1647.75	2472.50	3712.88	2995.98	1950.05
