

New Shipbuilding Financial Assistance policy for Indian shipyards for contracts signed during a ten year period, *viz.* 2016-2026, with budgetary projections of ₹ 4,000 crore for this period.

- (ii) Right of Refusal to Indian Shipyards: The Union Cabinet has approved on 09.12.2015 that all Government departments or agencies including CPSUs have to provide Right of First Refusal to Indian shipyards while procuring or repairing vessels meant for Governmental or own use till 2025, after which only Indian shipyards would build and repair vessels for above mentioned organisations. The modified guidelines have been uploaded on website of Ministry of Shipping in February, 2019.
- (iii) Grant of Infrastructure Status: The Department of Economic Affairs has notified the inclusion of standalone 'Shipyards' in the Harmonized Master List of Infrastructure Sub-sectors on 13.04.2016. With this inclusion, shipyards will be able to avail flexible structuring of long term project loans, long term funding from Infrastructure Funds at lower rates of interest and for a longer tenure equivalent to the economic life of their assets, relaxed ECB norms, and issuance of infrastructure bonds for meeting working capital requirements.

Development of waterways and allied services

951. SHRI MAHESH PODDAR:

DR. VIKAS MAHATME:

DR. PRABHAKAR KORE:

Will the Minister of SHIPPING be pleased to state:

- (a) the names of National Waterways and development activities thereon in the country;
- (b) the details of current services and proposed services like cruise, Ro-Ro Ferry, Ro-Pax Ferry, inland cargo shipping, etc.; and
- (c) whether Government proposes to include new inland waterways and if so, the details thereof, State-wise?

THE MINISTER OF STATE OF THE MINISTRY OF SHIPPING (SHRI MANSUKH MANDAVIYA): (a) To promote inland water transport in the country as an economical, environment friendly supplementary mode of transport to rail and road, 111 inland waterways (including 5 National Waterways declared earlier), were declared as National Waterways (NWs) under the National Waterways Act, 2016. List is given in the

Statement-I (*See below*). The details of projects initiated on National Waterways are as under:—

(i) National Waterway (NW)-1 (Ganga-Bhagirathi-Hooghly river system from Allahabad to Haldia), NW-2 (River Brahmaputra from Dhubri to Sadiya), NW-3 (West Coast Canal from Kolhapuram to Kollam along with Udyogmandal and Champakara Canals) have already been developed with fairway navigational aids, jetties and terminals with mechanized equipment handling facilities for loading and unloading of cargo. These NWs are operational and vessels are plying on them. In addition, NW-10 (River Amba), NW-68 (River Mandovi), NW-73 (River Narmada), NW-83 (Rajpuri Creek), NW-85 (Revadanda Creek-Kundalika River System), NW-91 (Shastri river-Jaigad creek system), NW-97 (Sunderbans Waterways), NW-100 (River Tapi) and NW-111 (River Zuari) are also operational.

(ii) Government is implementing the Jal Marg Vikas Project (JMVP) at an estimated cost of ₹ 5369.18 crore for capacity augmentation of navigation on National Waterway-1 (NW-I) on the Haldia Varanasi stretch of Ganga-Bhagirathi-Hooghly River System with the technical and financial assistance of the World Bank. The project is scheduled to be completed in 2022-23. Projects worth ₹ 1800 crore (approx.) have commenced on ground in a time period of three years after statutory clearances.

(iii) Fairway development works in Vijayawada-Muktyala stretch of river Krishna (Part of NW-4) under phase-I has commenced at a cost of ₹ 96 crore.

(iv) Based on the outcome of techno-economic feasibility and Detailed Project Reports (DPRs) prepared for 106 new NWs, technical interventions are undertaken for safe navigation and shipping on technically viable NWs. As per the DPRs completed so far for the new NWs, 36 NWs have been found to be technically and economically viable and development activities have been initiated on 10 NWs *viz.* NW-9, NW-16, NW-27, NW-37, NW-40, NW-58, NW-68, NW-86, NW-97 and NW-111.

(b) Under the Inland Waterways Authority of India Act, 1985, IWAI is mandated for regulation and development of inland waterways for purpose of shipping and navigation. In pursuit of this objective, interventions are carried out by IWAI to facilitate cargo movement on National Waterways as per feasibility study and Detailed Project Report (DPR). Besides, it also develops infrastructure facilities for Ro-Ro, Ro-Pax and river cruise across National Waterways, the details of which is given in the Statement-II (*See below*).

(c) No such proposal is under consideration.

Statement-I

List of 111 Inland Waterways declared as National Waterways under National Waterways Act, 2016 enforced on 12.04.2016

Sl. No.	National Waterway No.	Length (km)	Details of Waterways	States
1	2	3	4	5
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, Pondicherry and Maharashtra
		171	Godavari River (BhadraChalam to Rajahmundry)	
		139	Eluru Canal (Rajahmundry to Vijayawada)	

1	2	3	4	5
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)			
256	East Coast Canal and Matai River			Odisha and West Bengal
265	Brahmani-Kharsua-Dhamra Rivers			
67	Mahanadi Delta Rivers (Consisting of Hansua River, Nunanala, Gobinala, Kharnasi River and Mahanadi River)			
68	Aai River			Assam
5.	National Waterway 5			
6.	National Waterway 6			

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	Amber 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	Himachal Pradesh & Punjab
17.	National Waterway 17	189	Beas River	Assam
18.	National Waterway 18	69	Beki River	Uttar Pradesh
19.	National Waterway 19	67	Betwa River	Tamil Nadu
20.	National Waterway 20	95	Bhavani River	Karnataka & Telangana
21.	National Waterway 21	139	Bheema River	Odisha
22.	National Waterway 22	156	Birupa-BadiGenguti-Brahmani River System	

1	2	3	4	5
23.	National Waterway 23	56	BudhaBalanga	Odisha
24.	National Waterway 24	61	Chambal River	Uttar Pradesh
25.	National Waterway 25	33	Chapora River	Goa
26.	National Waterway 26	51	Chenab River	Jammu and 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	Dwarekeshwar 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 and 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 and Kashmir
50.	National Waterway 50	43	Jinjiram River	Assam & Meghalaya
51.	National Waterway 51	23	Kabini River	Karnataka
52.	National Waterway 52	53	Kali River	Karnataka
53.	National Waterway 53	145	Kalyan-Thane-Mumbai Waterway, Vasai Creek And Ulhas River System	Maharashtra
54.	National Waterway 54	86	Karamnasa River	Bihar & Uttar Pradesh

1	2	3	4	5
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
77.	National Waterway 77	20	Pazhyar River	Tamil Nadu
78.	National Waterway 78	262	Penganga - Wardha River System	Maharashtra & Telangana
79.	National Waterway 79	28	Pennar River	Andhra Pradesh
80.	National Waterway 80	126	Ponnaiyar 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 and Kashmir, Himachal Pradesh & Punjab

1	2	3	4	5
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	Chhota Kalagachi (Chhoto Kalergachi) River	West Bengal
7	Gomar River	West Bengal
16	Haribhangा River	West Bengal
37	Hogla (Hogal)-Pathankhali River	West Bengal
9	Kalindi (Kalandi) River	West Bengal
22	Katakhalı 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
377	Sutlej River	Himachal Pradesh & Punjab
98.	National Waterway 98	Tamil Nadu
99.	National Waterway 99	Tamil Nadu
100.	National Waterway 100	Maharashtra & Gujarat
101.	National Waterway 101	Nagaland

1	2	3	4	5
102.	National Waterway 102	87	Tlwang (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 LENGTH				20162.5

Statement-II

Details of Ro-Ro and river cruise facilities by IWAI

1. **National Waterway-3 (West Coast Canal in Kerala):** Two terminals viz., Bolghatty and Willingdon island developed in Cochin Port Trust limit for container traffic through Ro-Ro/ Lo-Lo service. This Ro-Ro service of 3.5 km. can save 18 km. congested roads travel for container trucks through Kochi city limits.
2. **National Waterway-2 (River Brahmaputra in Assam):**
 - (i) Ro-Ro terminals for providing connectivity between north bank (Dhubri) and south bank (Hatsingimari) on river Brahmaputra. The Ro-Ro service has created a direct link between Assam and Meghalaya enabling trucks/vehicle to avoid circuitous road route of approx. 220 km. through Jogighopa Bridge.
 - (ii) Ro-Ro service between Guwahati and North-Guwahati.
 - (iii) Infrastructure facilities for Ro-Ro service has also been provided w.e.f. October, 2018 between Neamati to Kamlabari to provide connectivity from Neamati to Majuli (island).
3. **National Waterway-4 (River Godavari, Krishna and Buckingham Canals in Andhra Pradesh and Tamil Nadu):** Under Phase-1 development, infrastructure provided for Ro-Ro Services between Ibrahimpatnam and Lingayapalam, for transportation of construction materials on NW-4 (river Krishna). Land acquisition is in progress for 04 permanent Ro-Ro terminals at Ibrahimpatnam, Harischandrapuram, Muktyala and Madipadu.
4. **Ro-Ro Infrastructure on National Waterway No.-1 (Ganga-Bhagirathi-Hooghly river system):** Interventions to be undertaken in Jal Marg Vikas Project (JMVP) include, five pairs of Ro-Ro terminals at Rajmahal (Jharkhand) - Manikchak (West Bengal), Samdaghata (Jharkhand)-Manihari (Bihar), Kahalgaon-Tintangha (Bihar), Hasnapur-Bakhtiyarpur (Bihar), Buxer (Bihar)-Saraikota (Uttar Pradesh).
5. **River cruise services on National Waterways and IBP route:** River cruise/ tourism has been a regular feature on National Waterway (NW)-1 (Ganga-Bhagirathi-Hooghly river system) and NW-2 (river Brahmaputra) since last many years. Various cruise operators viz., M/s Heritage River Cruises Pvt. Ltd., M/s Vivada Inland Waterways and M/s Assam Bengal Navigation Company operate their cruise vessels on NW-1, NW-2 and Sunderbans waterways.

Further, to promote river tourism, a Memorandum of Understanding (MoU) and Standard Operating Procedure (SOP) on "Passenger and Cruise Services on the Coastal and Protocol Routes" have been signed on 08.04.2017 and 25.10.2018, respectively. Accordingly, river cruise vessels can ply on NW-1 Indo Bangladesh Protocol routes (IBP) *via* Sundarbans (NW-97) - NW-2 routes from Kolkata to Silghat and on NW-1-IBP *via* Sundarbans (NW-97) - NW-16 from Kolkata to Karimganj. Bilateral cruise operation commenced in March-April, 2019. Four river cruise operations have successfully taken place till now in Kolkata-Dhaka-Guwahati stretch through IBP routes.

National Waterways

952. SHRI KANAKAMEDALA RAVINDRA KUMAR: Will the Minister of SHIPPING be pleased to state:

- (a) whether Government has proposed to make a number of National Waterways across the country with the objective of drastic reduction of vehicular traffic on roads;
- (b) if so, the details thereof;
- (c) whether Government has earmarked any fund for this;
- (d) if so, the details thereof; and
- (e) if not, the reasons therefor?

THE MINISTER OF STATE OF THE MINISTRY OF SHIPPING (SHRI MANSUKH MANDAVIYA): (a) and (b) To promote inland water transport in the country as an economical, environment friendly supplementary mode of transport to rail and road, 111 inland waterways (including 5 National Waterways declared earlier) were declared as 'National Waterways' under the National Waterways Act, 2016 as given in the Statement-I [Refer to the Statement appended to answer to USQ No. 951 (Part (a))]

National Waterway (NW)-1 (Ganga-Bhagirathi-Hooghly river system from Allahabad to Haldia), NW-2 (River Brahmaputra from Dhubri to Sadiya), NW-3 (West Coast Canal from Kottapuram to Kollam along with Udyogmandal and Champakara Canals) have been developed with fairway navigational aids, jetties and terminals with mechanized equipment handling facilities for loading and unloading of cargo. These NWs are operational and vessels are plying on them. In addition, NW-10 (River Amba), NW-68 (River Mandovi), NW-73 (River Narmada), NW-83 (Rajpuri Creek), NW-85 (Revadanda Creek-Kundalika River System), NW-91 (Shastri river-Jaigad creek system), NW-97 (Sunderbans Waterways), NW-100 (River Tapi) and NW-111 (River Zuari) are also operational.