

# PROMOTING INLAND WATERWAYS IN THE COUNTRY

Relevant for: Indian Economy | Topic: Infrastructure: Ports & Waterways

Ministry of Shipping

## Promoting Inland Waterways in The Country

Posted On: 05 MAR 2020 4:39PM by PIB Delhi

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. The list of these National Waterways including inter-State NWs, State wise, is at **Annexure-1**. Out of these, 25 NWs are inter-state NWs. Their list is at **Annexure-2**.

The details of projects initiated on National Waterways by the Inland Waterways Authority of India (IWAI) are as under:

(i) National Waterway (NW)-1 (Ganga-Bhagirathi-Hooghly river system from Allahabad to Haldia) in Uttar Pradesh, Bihar, Jharkhand & West Bengal; NW-2 (River Brahmaputra from Dhubri to Sadiya) in Assam; NW-3 (West Coast Canal from Kottapuram to Kollam along with Udyogmandal and Champakara Canals) in Kerala, 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.

At present, cargo volume of 72.31 million tonnes per annum is being transported on the above operational NWs.

(ii) Government has taken up implementation of the Jal Marg Vikas Project (JMVP) at an estimated cost of Rs. 5369.18 crore for capacity augmentation of navigation on National Waterway-1 (NW-1) on the Haldia – Varanasi stretch of Ganga-Bhagirathi-Hooghly River System with the technical and financial assistance of the World Bank. The salient features of the project are development of various infrastructure like construction of multimodal terminals at Varanasi, Sahibganj & Haldia, Ro-Ro terminals, navigational lock at Farakka, channel marking systems, integrated vessel repair & maintenance facilities, automated information techniques of Differential Global Positioning System (DGPS) and River Information System (RIS), day and night navigation aids, slipways, bunkering

facilities, river training and river conservancy works. Projects worth Rs. 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 in Andhra Pradesh (Part of NW-4) under Phase-I has been completed. Fabrication of four floating pontoons and land acquisition for fixed terminals (4 nos.) at Ibrahimpattam, Harischandrapuram, Muktyala and Madipadu has been taken up.

(iv) Feasibility studies have been completed for 106 new NWs and based on the outcome of feasibility studies and Detailed Project Reports (DPRs), 20 new NWs have been found technically feasible for development of shipping and navigation in addition to 5 existing NWs by the IWAI. Details of development activities initiated on 10 viable new NWs, State-wise, are detailed at **Annexure.-3**.

The details of expenditure by IWAI on development of NWs in the last 5 years are given below:

(Rs. in crore)

Year	Expenditure as Grants – in Aid (GBS)/Extra Budgetary Resources (EBR)
2015-16	321.91
2016-17	362.31 + 340.00 (EBR)
2017-18	426.0914 + 660.00 (EBR)
2018-19	862.49
2019-20	526.80

This information was given by the Minister of State for Shipping(I/C)Shri Mansukh Mandaviyain the Lok Sabha today in a written reply.

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**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 Waterway 5	256	East Coast Canal and Matai river	Odisha and West

		265	Brahmani-Kharsua-Dhamra rivers	Bengal
		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
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 &Rajashtan
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
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
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
		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	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
	<b>Total Length</b>	<b>20162.5</b>		

**List of Inter-state National Waterways**

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-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)	
3	National Waterway-5	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, Gobrinala, Kharnasi river and Mahanadi river)	
4	National Waterway-13	11	Avm Canal	Kerala & Tamil Nadu
5	National Waterway-17	189	Beas River	Himachal Pradesh & Punjab
6	National Waterway-21	139	Bheema River	Karnataka & Telangana
7	National Waterway-37	296	Gandak River	Bihar & Uttar Pradesh
8	National Waterway-38	62	Gangadhar River	Assam & West Bengal
9	National Waterway-40	354	Ghaghra River	Bihar & Uttar



				Pradesh
10	National Waterway-45	650	Indira Gandhi Canal	Punjab , Haryana &Rajashtan
11	National Waterway-48	590	Jawai-Luni-Rann of Kutch River System	Gujarat & Rajasthan
12	National Waterway-50	43	Jinjiram River	Assam & Meghalaya
13	National Waterway-54	86	Karamnasa River	Bihar & Uttar Pradesh
14	National Waterway-62	86	Lohit River	Assam & Arunachal Pradesh
15	National Waterway-70	245	Manjara River	Maharashtra & Telangana
16	National Waterway-73	226	Narmada River	Maharashtra & Gujarat
17	National Waterway-78	262	Penganaga - Wardha River System	Maharashtra & Telangana
18	National Waterway-84	44	Ravi River	Jammu & Kashmir, Himachal Pradesh & Punjab
19	National Waterway-96	311	Subarnrekha River	Jharkhand, West Bengal & Odisha
20	National Waterway-98	377	Sutlej River	Himachal Pradesh & Punjab
21	National Waterway-100	436	Tapi River	Maharashtra & Gujarat
22	National Waterway-102	87	Tlwang (Dhaleswari River)	Assam & Mizoram
23	National Waterway-104	232	Tungabhadra River	Karnataka, Telangana & Andhra Pradesh
24	National Waterway-109	166	Wainganga - Pranahita River System	Maharashtra &Telangana
25	National Waterway-110	1080	Yamuna River	Delhi, Haryana & Uttar Pradesh

### **Annexure-3.**

#### **List of 10 new National Waterways on which development activities have been initiated.**

<b>Name of the Waterway and States</b>	<b>Status</b>
1.River Barak (NW-16) in Assam	Development at a cost of Rs. 76.01 crore for Phase-1 of NW-16 from Silchar to Bhanga has commenced. This includes maintenance dredging, upgradation of terminals at Badarpur and Karimganj. Waterway is operational with limited infrastructure facility.
2.River Gandak (NW-37) in	Initial development process has been completed as per

Bihar	requirement. Further development process will be synchronized with cargo demand.
<b>Waterways in Goa</b> <b>3.</b> NW-27-Cumberjua <b>4.</b> NW-68 – Mandovi <b>5.</b> NW-111 – Zuari	<p>Work is proposed to be executed through Government of Goa with the assistance of Mormugao Port Trust. A Tripartite MoU has been signed for the commencement of works. Development of NWs in Goa at an estimated cost of Rs. 22.65 crore has commenced. NWs of Goa are operational.</p> <p>Installation of 3 nos. floating Jetties amounting to Rs.11.33 crore on river Mandovi and one no. on river Chapora on EPC basis in progress.</p>
<b>6.</b> Alappuzha – Kottayam – Athirampuzha Canal (NW-9) in Kerala	Dredging is proposed departmentally. Waterway is already operational for ferry services. Maintenance scheme for development at a cost of Rs. 0.82 crore was approved in May, 2019 for execution during 2019-20. Night navigation facilities have been installed.
<b>7.</b> River Rupnarayan (NW-86) in West Bengal	Development of the waterway at an estimated cost of Rs. 24.00 crore has commenced. Work has been awarded for setting up of floating terminal. Waterway is operational.
<b>8.</b> Sunderbans Waterways (NW-97) in West Bengal	Development of waterway at an estimated cost of Rs. 18.10 crore has commenced. The infrastructure at Hemnagar is being upgraded to handle Cargo/Passenger or Customs/Immigration requirements. Waterway is part of Indo-Bangladesh Protocol route and already operational for vessels.
<b>9.</b> River Kosi (NW-58) in Bihar	Development process will be synchronized with cargo demand.
<b>10.</b> River Ghagra (NW-40) in Uttar Pradesh	Development process will be synchronized with cargo demand.

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