

GOVERNMENT OF INDIA  
MINISTRY OF SHIPPING

LOK SABHA

STARRED QUESTION NO. \*542  
TO BE ANSWERED ON 5<sup>th</sup> APRIL, 2018  
DEVELOPMENT OF WATERWAYS

\*542 : SHRI HARISHCHANDRA CHAVAN:

SHRI MANSUKHBHAI DHANJIBHAI VASAVA:

Will the Minister of SHIPPING be pleased to state:

पोत परिवहन मंत्री

- (a) the details of the policy formulated regarding the development and use of waterways in the country;
- (b) the details of waterways which are operational at present in the country, location and length-wise;
- (c) the details of new waterways proposed to be developed in the country in near future, location and length-wise; and
- (d) the details of funds required along with the funds provided so far for this purpose?

ANSWER  
MINISTER OF SHIPPING  
(SHRI NITIN GADKARI)

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

**Statement referred to in reply to parts (a) to (d) of Lok Sabha Starred Question No. \*542 for 05.04.2018 raised by Shri Harishchandra Chavan & Shri Mansukhbhai Dhanjibhai Vasava, M.Ps on "Development of Waterways"**

(a): 111 inland waterways have been declared as 'National Waterways' (NWs) for their development for the purposes of shipping and navigation under the National Waterways Act, 2016. A list of these NWs is at **Annex-I**. Feasibility studies and Detailed Project Reports (DPRs) are prepared to determine the potential for navigability, cargo availability, cost of development etc. for the NWs. The contours of development of the NWs are finalized based on the outcome of the DPRs.

(b): The details of NWs which are operational at present is as under:

Sl. No.	National Waterway No.	Length (km)	States
1.	National Waterway-1: Ganga-Bhagirathi-Hooghly River System (Haldia – Allahabad)	1620*	Uttar Pradesh, Bihar, Jharkhand, West Bengal
2.	National Waterway 2: Brahmaputra River (Dhubri – Sadiya)	891	Assam
3.	National Waterway 3: West Coast Canal (Kottapuram – Kollam), Champakara and Udyogmandal Canals.	205	Kerala

\* For capacity augmentation of NW-1 from Haldia to Varanasi (1390 km), Jal Marg Vikas Project (JMVP) has been commissioned with the technical and financial support of World Bank at a total cost of Rs. 5369.18 crore.

(c): As per the feasibility reports completed so far, 36 NWs have been found to be technically viable by the Inland Waterways Authority of India (IWAI). Out of these 36 NWs, developmental activities have been initiated on 8 NWs in 2017-18. A list of the 8 NWs is enclosed as **Annex-II**. The status of DPRs of the remaining 28 NWs is at **Annex-III**. The contours of development of the 28 NWs would be determined on the basis of the findings of their respective DPRs.

(d): The details of budgetary allocations to the IWAI from 2015-16 to 2018-19 and the requirement of funds projected by the IWAI for development of National Waterways from 2018-19 to 2022-23 are at **Annex-IV**.

**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)	
5	National Waterway 5	636	River Krishna (Wazirabad – Galagali)	Odisha and West Bengal
		256	East Coast Canal and Matai river	
		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	Maharashtra

Sl. No.	National Waterway No.	Length (km)	Details of Waterways	STATES
			SYSTEM	
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 – BADI GENGUTI – BRAHMANI RIVER SYSTEM	Odisha
23	National Waterway 23	56	BUDHA BALANGA	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 & Rajasthan
46	National Waterway 46	35	INDUS RIVER	Jammu & Kashmir
47	National Waterway 47	131	JALANGI RIVER	West Bengal



Sl. No.	National Waterway No.	Length (km)	Details of Waterways	STATES
48	National Waterway 48	590	JAWAI-LUNI-RANN OF KUTCH RIVER SYSTEM	Gujarat & Rajasthan
49	National Waterway 49	110	JHELMUM 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	KOPI LI 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	KYN SHI 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	PENNNAR 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

Sl. No.	National Waterway No.	Length (km)	Details of Waterways	STATES
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	CHHOTA KALAGACHI (CHHOTO KALERGACHI) 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

Sl. No.	National Waterway No.	Length (km)	Details of Waterways	STATES
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
		20162.5		

**List of 8 new National Waterways taken up for Development in 2017-18**

Name of the Waterway	Status
1. River Barak (NW-16)	Phase -1 of NW-16 from Silchar to Bhanga is being developed at a cost of Rs. 76.01 crore. Maintenance dredging for fairway development work in Silchar-Bhanga stretch has commenced. DPRs for the upgradation of terminals at Badarpur, Karimganj and new floating terminal at Silchar are at an advanced stage.
2. River Gandak (NW-37)	Proposal for development at a cost of Rs. 12.91 crore has been approved on 02.06.2017 and fairway maintenance work has commenced.
Waterways in Goa 3. NW-27-Cumberjua 4. NW 68 – Mandovi 5. NW 111 – Zuari	A proposal for the development of NWs in Goa at an estimated cost of Rs. 22.65 crore has been approved on 02.06.2017. Work is proposed to be executed through Government of Goa with the assistance of Mormugao Port Trust. A Tripartite MoU is expected to be signed for the commencement of works.
6. Alappuzha – Kottayam – Athirampuzha Canal (NW-9) :	Proposal for development of the waterway at an estimated cost of Rs. 1.60 crore has been approved on 02.06.2017. Tendering for night navigation facilities has been completed. Dredging is proposed departmentally.
7. River Rupnarayan (NW-86)	Proposal for development of the waterway at an estimated cost of Rs. 24.00 crore has been approved on 02.06.2017. Work has been awarded for setting up of floating terminal.
8. Sunderbans Waterways (NW-97)	Proposal for the development of waterway at an estimated cost of Rs. 18.10 crore has been sanctioned on 10.08.2017. Tender for dredging and floating terminals are in advanced stages.



<b>Status of Detailed Project Reports (DPRs) of 28 NWs</b>			
<b>Sl. No.</b>	<b>River/Canal (NW-wise)</b>	<b>States</b>	<b>Length (km)</b>
<b><u>DPRs received</u></b>			
1	GHAGHRA RIVER (NW-40)	U.P & Bihar	354
2	KOSI RIVER (NW-58)	Bihar	236
3	SUBANSIRI RIVER (NW-95)	Assam	106
4	BAITARNI RIVER (NW-14)	Odisha	48
5	MAHANADI –LUNA RIVER (NW-64)	Odisha	98
6	AMBA RIVER (NW-10)	Maharashtra	45
7	REVADANDA CREEK – KUNDALIKA RIVER (NW-85)	Maharashtra	31
8	MAHI RIVER (NW-66)	Gujarat	247
9	NARMADA RIVER (NW-73)	Gujarat & Maharashtra	226
10	TAPI RIVER (NW-100)	Gujarat	173
11	SUBARNAREKHA RIVER (NW-96)	Odisha	30
12	AJOY (AJAY) RIVER (NW-7)	West Bengal	19
13	ICHAMATI RIVER (NW-44)	West Bengal	63
14	KABINI RIVER (NW-51)	Karnataka	23
15	CHAPORA RIVER (NW-25)	Goa	25
16	DABHOL CREEK – VASHISHTI RIVER (NW-28)	Maharashtra	45
17	MAPUSA – MOIDE RIVER (NW-71)	Goa	27
18	SAVITRI RIVER (BANKOT CREEK) (NW-89)	Maharashtra	45
19	GURUPUR RIVER (NW-43)	Karnataka	10
20	NETRAVATHI RIVER (NW-74)	Karnataka	30
21	KALI RIVER (NW-52)	Karnataka	53
22	SHARAVATI RIVER (NW-90)	Karnataka	29
<b><u>DPRs under preparation</u></b>			
23	ALAPPUZHA- CHANGANASSERY CANAL (NW-8)	Kerala	29
24	KOTTAYAM-VAIKOM CANAL (NW-59)	Kerala	19
25	Kalyan-Thane-Mumbai Waterway, Vasai Creek and Ulhas river (NW- 53)	Maharashtra	145
26	Tizu and Zungki rivers (NW-101)	Nagaland	42
27	Yamuna (NW-110)	Delhi, Haryana and Uttar Pradesh	1089
28	Jhelum (NW-49)	Jammu & Kashmir	110

**FUNDS ALLOCATED BY THE GOVERNMENT TO IWAI****(Rs in crore)**

<b>Year</b>	<b>BE</b>	<b>RE</b>	<b>Exp. (IWAI)</b>
<b>2015-16</b>	326.39	314.11	293.44
<b>2016-17</b>	BE 416.01 + 340.00 (EBRs)	362.31 + 340.00 (EBRs)	595.03
<b>2017-18</b>	303.00 (Grants) + 660.00 (EBRs)	450.00 (Grants) + 660.00 (EBRs)	419.14 (prov. Upto Feb'18)
<b>2018-19</b>	480.00		

EBRs: Extra Budgetary Resources i.e. Government of India fully serviced bonds raised by the IWAI.

**REQUIREMENT O FUNDS PROJECTED BY IWAI FOR DEVELOPMENT OF  
NATIONAL WATERWAYS**

<b>Year</b>	<b>(in Rs. Crore) Requirement of funds</b>
<b>2018-19</b>	1000
<b>2019-20</b>	1200
<b>2020-21</b>	1100
<b>2021-22</b>	1000
<b>2022-23</b>	1500

\*\*\*\*\*