

GOVERNMENT OF INDIA  
MINISTRY OF PORTS, SHIPPING AND WATERWAYS  
RAJYA SABHA

UNSTARRED QUESTION NO- 2384

ANSWERED ON 21/03/2023

**DEVELOPMENT OF INLAND WATERWAYS**

2384. Smt. PHULO DEVI NETAM:

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

- (a) the length of the inland waterways in kilometers, in the country;
- (b) out of this said expanse of the inland waterways, the length of inland waterways being used commercially;
- (c) the special scheme devised by Government for the development of inland waterways; and
- (d) the details of the implementation and the achievement made under this schemes?

**ANSWER**

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

- (a) The length of 111 National Waterways declared vide National Waterways Act, 2016 is 20186.65 km in India.
- (b) Presently, cargo movement for commercial purpose is recorded on 22 National Waterways (NWs) covering a length of 3383 km approximately.
- (c) & (d) On the basis of outcome of techno-economic feasibility study and Detailed Project Report (DPR) of these NWs, action plan has been formulated for 26 NWs which were found viable for cargo and passenger movement. List of 26 NWs found feasible for cargo and passenger movement is at **Annexure I**. The works taken up for development on the 18 National Waterways is at **Annexure II**.

**LIST OF 26 NATIONAL WATERWAYS (NWs) FOUND FEASIBLE FOR CARGO AND PASSENGER MOVEMENT**

Sl. No	NW	Details of Waterways	Length (Km)	STATES	Status
1	NW 1	Ganga-Bhagirathi-Hooghly River System (Haldia - Allahabad)	1620	Uttar Pradesh, Bihar, Jharkhand & West Bengal	Development taken up with Assistance from World Bank <b>Jal Marg Vikas Project</b>
2	NW 2	Brahmaputra River (Dhubri - Sadiya)	891	Assam	Development taken up as per approved SFC for FY 2020-21 to 2024-25
3	NW 16	Barak River (Lakhipur -Tuker Gram)	121	Assam	
4	NW 3	West Coast Canal (Kottapuram - Kollam), Champakara and Udyogmandal Canals	205	Kerala	Mostly Operational Waterways. Development and maintenance work taken up.
5	NW 4	Krishna River (Vijayawada – Muktyala)	82	Andhra Pradesh	
6	NW 5	Dhamra-Paradip via Mangalagadi to Pankopal	233	Odisha	
7	NW 8	Alappuzha- Changanassery Canal	29	Kerala	
8	NW 9	Alappuzha - Kottayam – Athirampuzha Canal	40	Kerala (Alternate route: 11.5km)	
9	NW 27	Cumberjua River (Cortalim-Ferry to Sao MartiasVidhanParisad)	17	Goa	
10	NW 68	Mandovi River (Usgoan bridge to Arabian Sea)	41	Goa	
11	NW 111	Zuari River (Sanvorden bridge to Marmugao Port)	50	Goa	
12	NW 86	Rupnarayan River (PratapPur to Geonkhali)	72	West Bengal	
13	NW 97	Sunderbans Waterway (Namkhana to AtharaBankiKhal)	172	West Bengal	
14	NW 40	Ghagra River (Faizabad to ManjhiGhat)	345	Bihar & U.P.	
15	NW 52	Kali River (Kodasalli Dam to Sadashivgad Bridge, Arabian Sea)	53	Karnataka	
16	NW 44	Ichamati River (Bridge at Gobra to Bansjhari near Bangladesh Border)	63	West Bengal	
17	NW 57	Kopili River (BanthaiGaonTinali Bus	50	Assam	

		Stop to Chandrapur No.2 confluence with Brahmaputra)			
18	NW 31	Dhansiri River (Morongi T.E. village Bridge to Numaligarh)	110	Assam	
19	NW 10	Amba River (Arabian Sea, Dharamtaar Creek to Nagothane ST Stand)	45	Maharashtra	Mostly operational NWS and selected for development in Two phases.
20	NW 28	Dabhol Creek Vasisti River (Arabian Sea at Dabhol to Bridge at Pedhe)	45	Maharashtra	
21	NW 25	Chapora River (Bridge near Maneri village to Morjim, Arabian Sea)	25	Goa	
22	NW 37	Gandak River (Bhaisalotal Barrage to Hazipur)	296	Bihar & U.P.	
23	NW 73	Narmada River (Pandhariya to Gulf of Khambhat)	226	Maharashtra & Gujarat	
24	NW 85	Revadanda Creek - Kundalika River System (Arabian Sea at Revadanda to Bridge near Roha Nagar)	31	Maharashtra	
25	NW 94	Sone River (Sone Barrage, Dehri to Confluence with the Ganga)	141	Bihar	
26	NW 100	Tapi River (Hatnur Dam to Gulf of Khambhat)	436	Maharashtra & Gujarat	

**Annexure-II****Development works taken up by Inland Waterways Authority of India (IWAI) on National Waterways (NWs).**

Sr. No.	Works on NWs													
1	<p>JalMargVikas Project (JMVP) on NW-1 (Varanasi-Haldia stretch, 1390 km) at the cost of Rs. 5369.18 Cr. approved by Cabinet Committee on Economic Affairs (CCEA) on 03.01.2018. Major Components are:</p> <table border="1"> <tr><td>Sub Project with States</td></tr> <tr><td>MMT Varanasi (Uttar Pradesh)</td></tr> <tr><td>MMT Sahibganj (Jharkhand)</td></tr> <tr><td>MMT Haldia (West Bengal)</td></tr> <tr><td>New Navigational Lock Gate at Farakka (West Bengal)</td></tr> <tr><td>IMT Kalughat (Bihar)</td></tr> <tr><td>Development of Community Jetty in Uttar Pradesh</td></tr> <tr><td><b>Fairway Development</b></td></tr> <tr><td>Farakka – Kahalgaon stretch (146 Km) – (W.B., Jharkhand &amp; Bihar)</td></tr> <tr><td>Sultanganj – Mahenderpur stretch (74km)- (Bihar)</td></tr> <tr><td>Mahenderpur – Barh stretch (71 Km)- (Bihar)</td></tr> <tr><td>Channel Stabilization Works at 7 locations (JMVP-II)-(U.P.)</td></tr> <tr><td>Tendering process for development of fairway for the remaining stretches initiated (W.B., Bihar &amp; U.P.).</td></tr> </table> <p>Arth Ganga (JMVP-II) has been conceptualised to energize socio-economic-development along the banks of National Waterway-1 including river Hooghly. Project implementation under JMVP-II may play a vital role in improving the livelihoods of communities living along the river with an aim to integrate people's participation and economic development with Ganga rejuvenation. This programme under JMVP-II will provide simple logistics solutions for small farmers, fishery units, unorganized farm producing units, horticulturists, florists and artisans to reach the nearest market place, which would steer a massive economic revolution in the region generating substantial employment.</p> <p>Sub-Projects status under JMVP-II is as under:</p> <ul style="list-style-type: none"> <li>• Development of Community Jetties (HDPE, Steel &amp; concrete) on NW-1 Cluster – I (Uttar Pradesh)</li> <li>• Development of Community Jetties (HDPE, Steel &amp; concrete) on NW-1 Cluster – II (Bihar &amp; Jharkhand)</li> <li>• Development of Community Jetties (HDPE, Steel &amp; concrete) on NW-1 Cluster – III (West Bengal)</li> <li>• Construction of 5 pairs of Ro-Ro terminals- NIT issuance by June 2023</li> </ul>	Sub Project with States	MMT Varanasi (Uttar Pradesh)	MMT Sahibganj (Jharkhand)	MMT Haldia (West Bengal)	New Navigational Lock Gate at Farakka (West Bengal)	IMT Kalughat (Bihar)	Development of Community Jetty in Uttar Pradesh	<b>Fairway Development</b>	Farakka – Kahalgaon stretch (146 Km) – (W.B., Jharkhand & Bihar)	Sultanganj – Mahenderpur stretch (74km)- (Bihar)	Mahenderpur – Barh stretch (71 Km)- (Bihar)	Channel Stabilization Works at 7 locations (JMVP-II)-(U.P.)	Tendering process for development of fairway for the remaining stretches initiated (W.B., Bihar & U.P.).
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	<ul style="list-style-type: none"> <li>• Supply of FRP (12 nos.) and Inspection Boats (04 nos.)- FRP boats (12 Nos.)</li> <li>• O&amp;M and CAMC of River Information Systems (RIS) System in Sagar-Farakka stretch at a cost of Rs. 10.92 cr. awarded in June 2022.</li> <li>• Renovation and Modernization of Existing Navigation Lock at Farakka</li> </ul>
<b>2</b>	<p><b>Comprehensive Project for development of National Waterway (NW)-2:</b></p> <ul style="list-style-type: none"> <li>• National Waterway 2 (NW-2) is a section of the <b>Brahmaputra River</b> having a length of 891 km between Dhubri (Bangladesh Border) and Sadiya (Assam).</li> <li>• A project @ 474 Crore has been approved for comprehensive development of NW-2. The project includes fairway development, construction of terminals at Joghhighopa and Bogibeel besides other activities viz., Fairway Development, O&amp;M of Terminals &amp; Vessels etc.</li> <li>• Also, a project for Construction of Ship Repair Facility at Pandu, Guwahati in Assam @ cost of Rs. 208 Crore &amp; Alternate approach road to Pandu Port in Guwahati @ cost of Rs. 180 Crore has been approved for implementation.</li> </ul>
<b>3</b>	<p><b>Comprehensive Project for development of NW-16 &amp; IBP route:</b></p> <ul style="list-style-type: none"> <li>• National Waterway-16 (NW-16) is a section of River Barak having a length of 121 km from Bhanga to Lakhipur including Indo Bangladesh Protocol Route IBP route in India.</li> <li>• A project @ 148 Crore has been developed for comprehensive development of NW-16 &amp; IBP. The project includes fairway development, construction of terminals at Sonamura on Gumti River and Maia on Ganga River. It also includes up-gradation of Badarpur and Karimganj terminals.</li> </ul>
<b>4</b>	<b>NW-3 (West Coast Canal, Champakara &amp; Udyogmandal Canals) projects -</b>
<b>(i)</b>	Construction of new Navigational Lock at Thrikkunnappuzha, at a cost of Rs. 38 crore.
<b>(ii)</b>	Execution of balance capital dredging and widening in Edappallikotta and Kollam stretch, at a cost of Rs. 6.75 cr., tendering underway.
<b>(iii)</b>	Operation and maintenance works of fairway, terminals, navigational aids and vessels on annual basis on the waterway.
<b>5</b>	<p><b>Projects on part of NW-4 (Krishna River (Vijayawada – Muktyala)-</b></p> <p>Projects completed so far include fairway development works in the Vijayawada-Muktyala stretch of river Krishna, fabrication / installation of four floating pontoons and land acquisition for the Ro-Ro terminals at Harshchandrapuram and Muktyala.</p> <p>Land acquisition for the Ro-Ro terminal at Ibrahimpatnm is underway with the State Govt. of Andhra Pradesh for which fund has been transferred.</p>
<b>6</b>	<p><b>Projects on part of NW-5 from Pankapal - Dhamra Port – Mangalgadi – Paradip Port</b> covering 212 km is being developed in phase-I with the following activities:</p> <ol style="list-style-type: none"> <li>a) Monthly Longitudinal Thalweg Survey for assessing depth and horizontal / vertical clearance for cross structures / bridges (212 km).</li> <li>b) Consultancy / Work has been initiated / completed for: Preparation of Detailed Project Report (DPR) followed by Front End Engineering Design (FEED) for hydraulic interventions, modification of crosses structures for</li> </ol>

	<p>navigational clearances. Environmental clearance (EIA &amp; EMP) including CRZ and Wildlife Clearance - MoEF&amp;CC informed on 05th Jan, 2021 that no EC is required. Only CRZ &amp; Wild life clearances are to be obtained from Govt. of Odisha.</p> <ul style="list-style-type: none"> <li>• Navigational clearance below existing power lines from Dhamra / Paradip to Pankapal on deposit basis through Govt. of Odisha is nearing completion.</li> <li>• Under New initiative movement of Gypsum started from IFFCO Riverine Jetty on NW-64 (Mahanadi) to Paradip Port (NW-5). Nearly 1,55,181 MT have been shipped till 31st October 2022. This will clear the huge accumulation of (approx. 52 million MT) gypsum at the IFFCO plant. MoU signed between IWAI and UltraTech cement for transport of the gypsum to its plants around Hooghly-Ganga River systems in West Bengal and Bihar.</li> </ul> <p>An EoI has been published for development of the waterway transport on rivers Brahmani (NW-5) and Mahanadi (NW-64) under PPP for connecting Ports of Paradip and Dhamra to Kalinganagar - Talcher mining and industrial areas.</p>	
7	<b>NW-8 (Alappuzha- Changanassery Canal)-</b> Development proposed as per DPR recommendations. 24 hours navigational aids (15 nos.) provided at critical locations and being maintained.	
8	<b>NW-9 (Alappuzha - Kottayam – Athirampuzha Canal)-</b> Development of the waterway at an estimated cost of INR 1.60 crore has commenced in 2017-18. Night navigation facilities (25 nos.) have been installed and maintained.	
9	<b>NW-27</b> Cumberjua River	NWs of Goa are operational under a Tripartite MoU with Govt. of Goa, Mormugao Port Authority & IWAI. Development of NWs in Goa at an estimated cost of INR 22.65 crore has commenced. Work for installation of 04 nos. floating Jetties amounting to Rs.11.33 crores on river Mandovi and river Chapora taken up. In addition, a fund of Rs 6.84 Crore has been released to Mormugao Port Authority on 02.04.2022 for induction of navigational Aids. A provision of Rs. 15 cr. has been made till 2023-24.
10	<b>NW-68</b> Mandovi River	
11	<b>NW-111</b> Zuari River	
12	<b>NW-40 (River Ghagra -Ayodhya to Ghaghra-Ganga Confluence)-</b> An amount of Rs. 11.60 cr. has been approved for fairway development by bandalling and day channel marking, creation of floating terminals and monthly surveys. Scheme at a cost of Rs. 3.12 cr. has been sanctioned during 2022-23 for development under Phase-I of the waterway.	
13	<b>NW-86 {Rupnarayan River (PratapPur to Geonkhali) in West Bengal}-</b> Development of the waterway at an estimated cost of INR 24.00 crore has commenced. Improvement to road from NH to water front terminal at Kolaghat at a cost of Rs.15.45 crore is being executed by Irrigation Dept., Govt. of West Bengal on deposit basis. Floating pontoon jetty is under construction for facilitating loading and unloading of fly-ash cargo. Permanent terminal is also proposed at Kolaghat for which land acquisition completed in June 2022 and development is considered through annual scheme.	
14	<b>NW-97 {Sunderbans Waterway (Namkhana to AtharaBankiKhal) in West Bengal}-</b> Development of waterway at an estimated cost of INR 18.10 crore has commenced.	

	Navigational marks/buoys have been provided and maintained. Waterway is part of Indo-Bangladesh Protocol route and already operational for vessels.
15	<b>NW 52</b> Kali River (Kodasalli Dam to Sadashivgad Bridge, Arabian Sea) in Karnataka through State Govt.- (Released fund of Rs.2.70 crore to Director, Port & IWT Dept., Karwar, Govt. of Karnataka on 12.08.2021 (FY 2021-22) for development of NW-52 (river Kali) on deposit basis through Govt. of Karnataka towards providing floating jetty (2 nos.) viz., Sadashivgad and Katne village (at a cost of Rs.2.54 crore) and navigational aids (at a cost of Rs.0.16 crore) for tourism promotion.
16	<b>NW 44</b> Ichamati River (Bridge at Gobra to Bansjhari near Bangladesh Border) -As per the DPR prepared on Ichamati river (NW-44), development of waterway proposed in 10 Km stretch from Bansjhari, Mallikpur (Ch. 0 Km) to Parnaihati (Ch. 10 Km) in Class-III standards and hydrographic survey activities in progress in above stretch.
17	<b>NW 57</b> Kopili River (BanthaiGaonTinali Bus Stop to Chandrapur No.2 confluence with Brahmaputra) - Development of Navigational route of 10 km stretch of NW-56 has been assigned to Dredging Corporation of India (DCI).
18	<b>NW 31</b> Dhansiri River (Morongi T.E. village Bridge to Numaligarh) -Dredging of River Dhansiri to facilitate ODC / OWC and project cargo movement is assigned to Dredging Corporation of India (DCI).

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