

GOVERNMENT OF INDIA  
MINISTRY OF SHIPPING  
**LOK SABHA**  
**UNSTARRED QUESTION NO. 247**  
TO BE ANSWERED ON 19<sup>TH</sup> JULY, 2018

**MARITIME INSTITUTES AND COLLEGES**

247. SHRI RADHESHYAM BISWAS:

Will the Minister of SHIPPING be pleased to state:

पोत परिवहन मंत्री

- (a) the details of Maritime Institutes/Colleges approved by the Government which are functioning in the country as on date, State/UT-wise;
- (b) whether all these Institutes/Colleges have fulfilled all the requisite criteria and have the necessary infrastructure facilities and if not, the details thereof along with the reaction of the Government thereto;
- (c) whether any new requests have been received by the Government for grant of permission for opening such new Institutes/Colleges in the country; and
- (d) if so, the details and the present status thereof, State/UT-wise?

**ANSWER**

MINISTER OF STATE IN THE MINISTRY OF SHIPPING  
(SHRI PON. RADHAKRISHNAN)

(a) The details of Maritime Institutes/Colleges approved by the Director General of Shipping, Government of India, which are functioning in the country as on date are as under:-

**ANDAMAN & NICOBAR**

1	Dr. B.R. Ambedkar Govt. Polytechnique
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**ANDHRA PRADESH**

1	Commander Ali's Academy of Merchant Navy
2	National Ship Design & Research Centre
3	Behara Institute of Maritime Training
4	Praveenya Institute of Marine Engineering & Maritime Studies

**BIHAR**

1	Institute of Marine Education & Research Pvt Ltd
2	National Inland Navigation Institute

**DELHI**

1	Aquatech Institute of Maritime Studies
2	Sriram Institute of Marine Studies
3	Fosma Maritime Institute and Research Organization
4	Anglo Eastern Maritime Training Centre
5	Natcom Education & Research Foundation
6	Applied Research International (Extended Campus)
7	Oceans XV Educational Trust
8	Vishvakarma Maritime Institute (Extended Campus)
9	Applied Research International

**GOA**

1	NUSI Maritime Academy
2	Seascan Maritime Foundation
3	Institute of Petroleum Safety, Health & Environment Management
4	Institute of Maritime Studies
5	Francon's Marine Academy

**GUJARAT**

1	Marine Training Academy
2	U. V. Patel College of Engineering
3	S.P. Marine Academy

**HARYANA**

1	School of Higher Academic and Professional Education
2	SEI Education Trust (Extended Campus)

**KARNATAKA**

1	Mangalore Marine College and Technology
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**KERALA**

1	Univan Maritime Training Academy
2	Euro Tech Maritime Academy
3	Cochin Shipyard Limited
4	Institute of Marine Engineers (India)
5	Kunjali Marakkar School of Marine Engineering of Cochin University of Science and Technology.
6	Indian Maritime University (Campus)

**MAHARASHTRA**

1	Tolani Maritime Institute
2	Anglo Eastern Maritime Academy
3	MMTI's Education & Research Trust
4	Maritime Training Institute (SCI)
5	T. S. Rahaman
6	Tolani Maritime Institute
7	Arya Marine Academy
8	Asha International Institute of Marine Technology (Extended Campus)
9	Institute of Marine Engineers (India)
10	Mangalore Marine College and Technology
11	Mumbai Maritime Training Institute
12	OERC Academy
13	Setrac College of Offshore Training
14	Yak Management & Marine Education Centre
15	Coral Maritime Institute of Learning & Development
16	International Marine Academy
17	Loyalty Marine Education Trust
18	Marine Training Academy
19	R.M. Maritime Academy
20	Ramana Academy of Maritime Studies
21	Samundra Institute of Maritime Studies

22	School of Synergic Studies
23	SNS Maritime Training Institute
24	Suraksha Marine
25	United Marine Academy
26	Anglo Eastern Maritime Training Centre
27	LBS College of Advanced Maritime Studies
28	Pentagon Maritime Training & Research Institute
29	St. Xavier's Technical Institute
30	Marine Engineering & Research Institute
31	Fleet Management Training Institute
32	Indian Register of Shipping
33	International Maritime Training Centre
34	MASSA Maritime Academy
35	Naval Maritime Academy West
36	SCMS Maritime Training Institute
37	Gurship Education Trust Maritime Training Institute
38	Marine Medical Clinic
39	Seafarers Marine Institute
40	T.S. Chanakya
41	Sakshi Institute of Maritime Foundation
42	Bonzer Academy of Maritime Studies
43	Don Bosco Normar Maritime Academy
44	Pragati Marine College
45	BP Marine Academy (Belapur Campus)
46	BP Marine Academy (Panvel Extended Campus)
47	Vishvakarma Maritime Institute
48	Great Eastern Institute of Maritime Studies
49	Samundra Institute of Maritime Studies
50	Maharashtra Academy of Naval Education & Training
51	SCMS Maritime Training Institute (Extended Campus)
52	Yak Educational Trust (Extended Campus)
53	Columbus Maritime Training Institute
54	Mariner's Academy
55	Baba Marine Institute

**ORISSA**

1	C.V. Raman College of Engineering
2	Orissa Maritime Academy

**SIKKIM**

1	Asha Marine College owned by the RMU Charitable Trust
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**TAMILNADU**

1	AMET University
2	Balaji Seamen Training Institute
3	Indian Maritime University (National Maritime Academy)
4	Maritime Foundation
5	Cosmopolitan Technology of Maritime
6	GKM Institute of Marine Sciences & Technology (Campus)
7	HIMT College - Kalpakkam - Pre-sea training Centre

8	Indus Seafarers Training Academy
9	Southern Academy of Maritime Studies
10	CMC Maritime Academy (Campus)
11	Hindustan Institute of Maritime Training (HIMT) - Kilpauk - Post Sea Training Centre
12	MASSA Maritime Academy
13	HIMT College - Tidel park - Post-sea training Centre
14	International Maritime Academy
15	Vels Academy of Maritime Education & Training
16	Indian Maritime College
17	Mainstay Training Institute
18	GKM College of Engineering & Technology
19	Chidambaram Institute of Maritime Technology
20	Perunthalaivar Kamarajar Institute of Maritime Science & Engineering
21	Coimbatore Maritime Academy
22	SeaSkills Maritime Academy
23	Park Maritime Academy
24	School of Seamanship and Nautical Technology
25	Noorul Islam University
26	Mohammed Sathak Engineering College
27	RL Institute of Nautical Science
28	Marine Officers Training Academy
29	Sri Chakra Maritime College
30	Pondicherry Maritime Academy
31	Srivenkateshwara College of Engineering
32	Jeyanthinather Academy of Marine Studies (JAMS)
33	Tamilnadu Maritime Academy
34	PSN College of Engineering & Technology
35	Maritime Training Institute [SCI] (Tuticorin Campus)
36	Sri Nandhanam College of Engineering and Technology

**UTTAR PRADESH**

1	Amer Maritime Training Academy
2	Centre for Maritime Education and Training
3	HSNA Maritime Education & Research
4	Institute of Marine Education & Research Pvt Ltd
5	J. Sons Merchant Navy Institute
6	International Maritime Institute Ltd
7	Asha International Institute of Marine Technology

**UTTARAKHAND**

1	MMTI Dehradun (Extended Campus)
2	Centre for Maritime Education and Training
3	Zasha Institute of Maritime Studies
4	Oceanic Maritime Academy

**WEST BENGAL**

1	Haldia Institute of Maritime Studies & Research
2	Marine Engineering & Research Institute (MERI)

3	Seacom Marine College
4	Seacom Marine College (University)
5	Maritime Academy of India
6	Maritime Education Training & Research Institute
7	Hoon Maritime Institute
8	Indian Institute of Port Management IMU Campus
9	Marine Education Charitable Trust
10	Marine Education Charitable Trust (Extended Campus)
11	Mercantile Marine Academy Foundation
12	S.E.I. Education Trust
13	Sensea Maritime Academy
14	Sensea Maritime Academy (Extended Campus)
15	FOSMA Maritime Institute and Research Organization
16	College of Maritime Studies & Research
17	Trident College of Marine Technology (Two Campus)
18	Garden Reach Ship Builders & Engineers Ltd
19	Neotia Institute of Technology and Science

(b) The Director General of Shipping, Government of India grants approvals to various maritime training institutes. Earlier these approvals were governed by DGS Order No. 1 of 2003 and DGS Order No. 2 of 2007. Subsequently, new guidelines were framed vide DGS Order No. 5 of 2016 (for post-sea courses) and DGS Order No. 7 of 2016 (for pre-sea courses). All these institutes fulfil the requisite criteria and necessary infrastructure facilities as per the guidelines, which were in force at the time of grant of approval.

(c)&(d) The details of institutes which have requested for opening up of new maritime training institutes are as under:-

**RAJASTHAN**

1	Siva Sai Foundation
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**MADHYA PRADESH**

1	Prudent Education Society
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**BIHAR**

1	Pentagon Maritime training and Research Institute
2	Urmila Institute of Maritime Studies

**TAMILNADU**

1	Energy Educational and Charitable Trust
2	Immanuel Araser Instt.

**MAHARASHTRA**

1	Distinctive Education Society
2	MVVS Maritime Foundation(Post sea)
3	Global Offshore Maritime Foundation
4	International Maritime Foundation
5	NIMBUS Maritime Education & Seafarers Welfare Foundation

6	Fair Weather Maritime Association
7	Oceanic Maritime Academy
8	AIMS Maritime Academy
9	Ansh Foundation Shipping College
10	Palkan Marine Education Foundation
11	HSNA Edu and Research foundation
12	Oceana Maritime Education Foundation
13	Brarvo Maritime Academy
14	Sahadev Sing Chuhan EducationTrust
15	Swayamraj Maritime Educational
16	Loyalty Marine Education Trust
17	Seven seas Maritime foundation
18	ARK Marine Academy
19	Gautam Education Trust
20	Sagar Ocean Maritime Academy
21	Girik Maritime Academy
22	Vijaytilak Maritime Foundation
23	ABB Maritime Trust
24	Sea Breeze Maritime Trust
25	Lokmanya Trust
26	Troezen Institute of Maritime Association
27	Navyog Vidyapeeth Trust
28	Swyam Maritime Academy
29	R.A. Pandey Institute of Advance Educational
30	Fleet Ocean Maritime Academy

**UTTAR PRADESH**

1	Institute of Advanced Maritime Studies
2	KCM College of Maritime Education
3	Oneness Educational Trust
4	Shri Ram Shiksha Avam Kalyan Samiti
5	Rammurat Umrawati Memorial Charitable Trust(Pre sea)
6	Marina Academy of Maritime Research Centre & Charitable Trust
7	NJB Rearches and Education Foundation (Universal Maritime Institute)

**WEST BENGAL**

1	Seacom Marine Collage (University)
2	Delta Educational Trust

**DELHI**

1	Good Result Maritime Academy
2	Mahavir Marine Academy
3	Maritime Training Trust

**HARYANA**

1	Blue water marine Academy
2	Kanak Education Foundation
3	Northern Maritime Training College

**GUJARAT**

1	Satyav Educational Trust
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**KERALA**

1	Good Will Charitable Trust
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**RAJASTHAN**

1	Swami Vivekanand Maritime EducationalTrust
2	Taparia Maritime Training Academy

**JHARKHAND**

1	Aquasis Edu. Foundation
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**ODISHA**

1	Swami Nigamamnanda Edu.Trust
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**PUNJAB**

1	Aryavart Maritime Institute
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**GOA**

1	K.A. Maritime
2	Parixit Pai Fondekar
3	Kamaxi Maritime Academy

**KARNATAKA**

1	Atlantis Maritime Training Academy
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The above mentioned institutes have been granted 'in principle' approval.

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GOVERNMENT OF INDIA  
MINISTRY OF SHIPPING  
LOK SABHA  
**UNSTARRED QUESTION NO.259**  
TO BE ANSWERED ON 19<sup>TH</sup> JULY, 2018

**CRUISE AND FERRY SERVICES**

259. MOHAMMED FAIZAL:

Will the Minister of SHIPPING be pleased to state:

पोत परिवहन मंत्री

- (a) the salient features of new Guidelines implemented for operation of Cruise Shipping and Ferry Services at Major Ports in the country;
- (b) the details of Cruise Shipping and Ferry Services presently operational in Major Ports in the country, Port-wise;
- (c) the present status of construction of new Cruise Terminals in the country at various ports in the country including Kochi; and
- (d) the details of funds allocated, released and utilised for this purpose?

**ANSWER**

MINISTER OF STATE IN THE MINISTRY OF SHIPPING  
(SHRI PON. RADHAKRISHNAN)

(a) New guidelines in the form of Standard Operating Procedures (SOPs) to handle cruise vessels and cruise passengers have been revised and implemented in November, 2017. The salient features of these SOPs inter alia includes submission of documents/data electronically, seamless entry and exit process with access control and RFID for vehicles and persons and simplified Port Health Organization Clearance Procedure. It further provides for e-Landing card for shore excursion, doing away with face to face checks except at the first port of entry and last port of exit and allowing carrying of valid photo I-card for Indian cruise passenger on domestic leg instead of the passport.

(b) The five major ports i.e Mumbai Port, Mormugao Port, New Mangalore Port, Cochin Port and Chennai Port receive cruise ships as per the plan/programme of various cruise companies as a port of call. Ferry services are run from Mumbai Port (Gateway of India) to Mandwa & Elephanta, and from Ferry Wharf to Mora, Revas & Karanja.

(c & d) A cruise passenger facilitation centre has been completed at Chennai Port on 31.7.2017 with an expenditure of Rs. 17.54 crores. An international Cruise terminal is under construction at Mumbai Port at an estimated cost of Rs. 300 crores. The Ministry of Tourism has sanctioned an amount of Rs. 12.50 crores for this project out of which Rs. 5 cores have already been released. A domestic cruise terminal has also been developed at Mumbai Port at an estimated cost of Rs. 14 crores. It is proposed to construct another cruise terminal facility in the Ernakulum Wharf of Cochin Port at an

estimated cost of Rs. 25.72 crores. The Ministry of Tourism had sanctioned Rs. 21.41 crores as financial assistance for this project out of this Rs. 4.33 crores have been released.

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GOVERNMENT OF INDIA  
MINISTRY OF SHIPPING  
**LOK SABHA**  
**UNSTARRED QUESTION NO. 285**  
TO BE ANSWERED ON 19<sup>th</sup> JULY, 2018

**WATERWAYS PROJECTS ON KAKINADA-CHENNAI SECTION**

285. SHRI KONAKALLA NARAYANA RAO

Will the Minister of SHIPPING be pleased to state:

पोत परिवहन मंत्री

- (a) whether a hydrographic survey has been completed to develop waterways from Kakinada to Chennai;
- (b) if so, the details and the present status of the project on the said section;
- (c) the details of funds allocated, released and utilized for the purpose so far; and
- (d) the steps taken/ being taken by the Government for timely completion of the said project?

**ANSWER**

MINISTER OF STATE IN THE MINISTRY OF SHIPPING  
(SHRI PON. RADHAKRISHNAN)

(a) to (d) Detailed hydrographic survey has been completed by the Inland Waterways Authority of India (IWAI) in respect of Kakinada to Ennore stretch which is a part of National Waterway-4.

Development of National Waterway-4 is planned in three phases. Development of Phase-I works between Vijayawada to Muktyala stretch of Krishna River has been taken up at a cost of Rs. 96.00 crore out of which Rs.18.00 crore has been utilized so far.

Vijayawada to Kakinada and Rajamundry to Polavaram portion of NW-4 is planned for development in Phase-II. Tendering process has been undertaken by the IWAI for a comprehensive hydrographic and navigation study for this stretch.

On completion of Phase I and II, the balance stretches of NW-4 are planned for development in Phase III. No funds have been allocated as yet for development of Kakinada to Puducherry stretch of NW-4.

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GOVERNMENT OF INDIA  
MINISTRY OF SHIPPING  
**LOK SABHA**  
**UNSTARRED QUESTION NO. 409**  
TO BE ANSWERED ON 19<sup>th</sup> JULY, 2018

**FERRY SERVICES IN GOA**

409. ADV. NARENDRA KESHAV SAWAIKAR:

Will the Minister of SHIPPING be pleased to state:

पोत परिवहन मंत्री

(a) whether free ferry service is available between Panaji and Betim on the opposite bank of the Mandovi river in Goa and if so, the details thereof;

(b) whether a proposal to increase the scale and frequency of the said service is under consideration of the Government; and

(c) if so, the details thereof and the extent to which the Union Government is likely to provide assistance for the purpose?

**ANSWER**

MINISTER OF STATE IN THE MINISTRY OF SHIPPING  
(SHRI PON. RADHAKRISHNAN)

(a) Yes, Madam. There is ferry service across the Mandovi River between Panaji – Betim.

(b) to (c) No proposal is under consideration with Government of India to increase the scale and frequency of said service. However River Navigation Department, Government of Goa has proposed to maintain two ferries instead of one at Panaji - Betim route.

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GOVERNMENT OF INDIA  
MINISTRY OF SHIPPING  
**LOK SABHA**  
**UNSTARRED QUESTION NO. 441**  
TO BE ANSWERED ON 19<sup>th</sup> JULY, 2018

**DEVELOPMENT OF WATERWAYS**

441. SHRI MANSUKHBHAI DHANJIBHAI VASAVA:

SHRI HARISHCHANDRA CHAVAN:

DR. RAMESH POKHRIYAL "NISHANK":

Will the Minister of SHIPPING be pleased to state:

पोत परिवहन मंत्री

- (a) whether the Government proposes to develop new waterways on rivers and if so, the details thereof, river/ waterways-wise;
- (b) the details of waterways which are operational in the country, river/ waterways-wise;
- (c) the present status of the National Waterways along with their navigability status, waterways-wise;
- (d) whether the Government has established any mechanism for regular monitoring and evaluation of navigability of such waterways and if so, the details thereof; and
- (e) the details of waterways being used regularly for transportation in the country as on date?

**ANSWER**

MINISTER OF STATE IN THE MINISTRY OF SHIPPING  
(SHRI PON. RADHAKRISHNAN)

(a) to (e) To create a country wide waterway network so as to optimize the full potential of this mode of transport, 111 inland waterways (including the existing 5 national waterways) have been declared as National Waterways (NWs) under the 'National Waterways Act, 2016' which has been enforced w.e.f. 12.04.2016. The list of these NWs is at **Annex-I**. Subsequent to the declaration of a National Waterway, feasibility study which inter-alia covers the potential of navigability, cargo availability, cost of development etc. on the NW is undertaken by the Inland Waterways Authority of India (IWAI).

The details of NWs which are operational/ navigable and being used for transportation at present in the country are at **Annex-II**.

As per the feasibility reports completed so far, 36 NWs have been found to be technically viable. Out of these 36 NWs, developmental activities have been initiated on 8 NWs in 2017-18. A list of these 8 NWs is enclosed as **Annex-III**. Status of DPRs for the remaining 28 NWs is at **Annex-IV**.

IWAI has set up a mechanism to monitor the waterway through regular Thalweg surveys and channel inspection. Regular fortnightly hydrographic surveys are conducted to determine the available depth and possible shoal formations in the channel and to notify the obstructions, clearances available at cross structures. A constant vigil is kept on the river behavior and plans accordingly to ensure fairway for safe movement of vessels. Based on the observation during channel inspection, River Notices are being issued and placed on the IWAI website with details on Least Available Depth (LAD), clearances at bridge structures etc. along with any specific information to be conveyed to shippers.

**List of 111 National Waterways**

<b>Sl. No.</b>	<b>National Waterway No.</b>	<b>Length (km)</b>	<b>Details of Waterways</b>	<b>STATES</b>
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	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)	
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

<b>Sl. No.</b>	<b>National Waterway No.</b>	<b>Length (km)</b>	<b>Details of Waterways</b>	<b>STATES</b>
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 - 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

<b>Sl. No.</b>	<b>National Waterway No.</b>	<b>Length (km)</b>	<b>Details of Waterways</b>	<b>STATES</b>
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	KARAMNESA 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	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

<b>Sl. No.</b>	<b>National Waterway No.</b>	<b>Length (km)</b>	<b>Details of Waterways</b>	<b>STATES</b>
77	National Waterway 77	20	PAZHYPAR 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	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

<b>Sl. No.</b>	<b>National Waterway No.</b>	<b>Length (km)</b>	<b>Details of Waterways</b>	<b>STATES</b>
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
		20162.5		

**National Waterways which are operational/navigable being used for transportation**

<b>Sl. No.</b>	<b>National Waterway No.</b>	<b>Length (km)</b>	<b>Location (S)</b>
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
4.	National Waterway 4 (Phase-I : Vijaywada to Muktyala)	82	Andhra Pradesh
5.	National Waterways in Maharashtra i)National Waterway 10 (AMBA RIVER)	45	Maharashtra
	ii)National Waterway 85 (REVADANDA CREEK - KUNDALIKA RIVER SYSTEM)	31	
6.	National Waterways in Goa	17	Goa
	i) NW-27-Cumberjua – confluence with Zuari to confluence with Mandovi river (17 km)	41	
	ii) NW 68 – Mandovi– Usgaon Bridge to Arabian Sea (41 km) iii) NW 111 – Zuari– Sanvordem Bridge to Marmugao Port (50 km).	50	
7.	NW – 9: Alappuzha – Kottayam – Athirampuzha Canal Boat Jetty, Alappuzha to Athirampuzha (38 km) in Kerala.	38	Kerala
8.	NW-100: TAPI RIVER	173	Gujarat
9.	NW-97: Sunderbans Waterways	201	West Bengal (through Indo-Bangladesh Protocol Route)

**LIST OF 8 NWS TAKEN UP FOR DEVELOPMENT IN 2017-18**

<b>National Waterway</b>	<b>Status</b>
<b>1. River Barak (NW-16):</b>	Under Phase -1, the stretch between Silchar to Bhanga (71 km) has been taken up for development. Waterway is operational with limited infrastructure facility.
<b>2. River Gandak (NW-37):</b> Bhaisalotan Barrage near TriveniGhat to confluence with Ganga river at Hajipur (296 km)in Bihar and UP.	Development works commenced from Ganga confluence to Bagaha Bridge (250 km approx.) under Phase-1.
<b>National Waterways in Goa</b> <b>3. NW-27-Cumberjua</b> – confluence with Zuari to confluence with Mandovi river (17 km) <b>4. NW 68 – Mandovi</b> – Usgaon Bridge to Arabian Sea (41 km) <b>5. NW 111 – Zuari</b> – Sanvordem Bridge to Marmugao Port (50 km).	Development works for expansion / setting up of floating jetties and upgradation/ installation of navigational aids is underway. NWS of Goa are operational.
<b>6. Alappuzha – Kottayam – Athirampuzha Canal (NW-9)</b> :Boat Jetty, Alappuzha to Athirampuzha (38 km) in Kerala.	Development work in the Alappuzha – Kottayam stretchhas commenced under Phase-1 for cargo movement. Waterway is already operational for ferry services.
<b>7. River Rupnarayan (NW-86):</b> Confluence of Dwarkeshwar and Silai rivers (Pratappur) to confluence with Hooghly river (Geonkhali) (72 km) in West Bengal.	Approximately 34 kms between Geonkhali to Kolaghat stretch has been taken up for development under Phase-I.
<b>8. Sunderbans Waterways (NW-97):</b> Namkhana to AtharaBanki Khal & 13 connected rivers (654 km) in West Bengal.	Phase-I development work of this NW from Namkhana to Athara Banki Khal (172 km)has been taken up. NW is already operational under Indo-Bangladesh Protocol (IBP) route.

<b>Status of Detailed Project Reports (DPRs) of 28 NWs</b>			
<b>Sl. No.</b>	<b>River/Canal (NW)</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

GOVERNMENT OF INDIA  
MINISTRY OF SHIPPING  
**LOK SABHA**  
**UNSTARRED QUESTION NO.444**  
TO BE ANSWERED ON 19<sup>TH</sup> JULY, 2018

**DEVELOPMENT OF CRUISE TERMINALS**

444. SHRI NAGAR RODMAL:

SHRI OM PRAKASH YADAV:

Will the Minister of SHIPPING be pleased to state:

पोत परिवहन मंत्री

- (a) the steps taken/being taken by the Government to attract cruise liners/ships and develop cruise terminals/ports as a part of cruise tourism in the country;
- (b) whether the Government has taken up pilot projects in this regard and if so, the details thereof along with the achievements made so far under these pilot projects; and
- (c) the time frame set for completion of these projects?

**ANSWER**

MINISTER OF STATE IN THE MINISTRY OF SHIPPING  
(SHRI PON. RADHAKRISHNAN)

- (a) The following important steps have been taken by the Government to develop Cruise Tourism in the country:
- (i) A Task Force was constituted in November, 2015 with Secretary (Tourism) as the Chairman and Secretary (Shipping) as the Co-chairman for coordinated efforts to create an enabling eco-system for the development of cruise tourism in India.
  - (ii) Foreign flag vessels carrying passengers have been allowed to call at Indian ports for a period of 10 years with effect from 6<sup>th</sup> February, 2009 without obtaining a licence from Director General of Shipping. This facility has been extended further for a period of 5 years i.e. upto 5<sup>th</sup> February, 2024.
  - (iii) Standardized Operating Procedures (SOPs) for cruise vessels have been revised and operationalised w.e.f. November, 2017 for uniform, predefined processes to be observed by all major ports.
  - (iv) E-visa facility has been extended to five sea ports namely Mumbai, Goa, Mangalore, Cochin and Chennai. Immigration counters have been set up at five major ports visited by cruise ships.
  - (v) Cruise tourists arriving with e-visa have been exempted from the requirement of biometric enrolment for a period of three years i.e. till 31.12.2020 to facilitate expeditious immigration clearance.

- (vi) The port charges have been reduced and all major ports now charge a uniform single rate of \$0.35 per GRT for first 12 hrs of stay w.e.f 3<sup>rd</sup> November, 2017 and will remain in force for a period of three years.
  - (vii) The ports do not levy any priority/ousting/shifting charges for berthing the cruise vessel.
  - (viii) Walk-in berthing/preferential berthing to homeport cruise without any extra charge.
  - (ix) To address manpower, coordination and logistic issues for handling cruise vessels at ports, Port Level Committees have been formed under the respective Chairmen of the above mentioned Major Ports to facilitate seamless handling of cruise ships and passengers.
- (b) & (c) A new international cruise terminal is being built at Mumbai at an approximate cost of Rs. 300 crores out of which Rs. 197 crores is the share of Mumbai Port and Rs. 103 crores by PPP operator who would be engaged for operation and management of cruise terminal. The proposed cruise terminal would cover total constructed area of 4.15 lakh sq ft. with a total operational area of 1.7 lakh sq ft. and would be ground plus three storey structure with iconic design on cruise concept. The draft at this terminal would be 10.5 metre. The work is in progress and the estimated date of completion is December, 2019. It is proposed to construct another cruise terminal facility in the Ernakulum Wharf of Cochin Port for bigger ships. The project consists of construction of an international cruise terminal building of approximate area of 2253 sq mt at an estimated cost of Rs. 25.72 crores. The work is under progress and estimated date of completion is 2020.

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GOVERNMENT OF INDIA  
MINISTRY OF SHIPPING  
**LOK SABHA**  
**UNSTARRED QUESTION NO. 445**  
TO BE ANSWERED ON 19<sup>th</sup> JULY, 2018

**PERFORMANCE OF INDIAN PORTS**

445. SHRI RADHESHYAM BISWAS:

Will the Minister of SHIPPING be pleased to state:

पोत परिवहन मंत्री

- (a) whether cargo handling capacity, connectivity and processing at Indian Ports still lag behind the global standards;
- (b) if so, the details thereof along with the reasons therefor;
- (c) the steps taken/being taken by the Government to improve the performance of India Ports in this regard; and
- (d) the details of connectivity facilities amongst Major Ports available at present in the country?

**ANSWER**

MINISTER OF STATE IN THE MINISTRY OF SHIPPING  
(SHRI PON. RADHAKRISHNAN)

(a) to (c) Infrastructure development and capacity augmentation of Major Ports is an ongoing process. The process inter-alia involves construction of new berths and terminals, mechanization of existing berth and terminals, capital dredging for deepening of drafts for attracting large vessels in port channels, development of road and rail connectivity etc. As a result, the cargo handling capacity of the Major Ports has been steadily going up. The installed capacity of the Major Ports as on 31.3.2018 is 1451.19 MTPA which is sufficient to handle the existing cargo traffic at the Major Ports. The traffic handled by the Major Ports during 2017-18 was 679.37 MT. Significant improvement in efficiency has been achieved by the Major Ports in the last three years. With a view to improve further the efficiency and productivity of the major ports and make it comparable internationally, a benchmarking study of Major Ports to international standards has been conducted which has recommended 116 initiatives out of which 87 have already been implemented.

(d) Under the Sagarmala programme, the Government has taken up number of projects to connect ports with National Highways and Rail network for efficient evacuation to and from hinterland. To enhance the connectivity to Major ports and to meet connectivity requirements for future traffic projections, 27 Rail connectivity enhancement projects have been identified and being implemented by Indian Port Rail

Company Limited(IPRCL). Similarly, 48 Road connectivity projects have also been identified to improve connectivity of major ports with hinterland.

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