

GOVERNMENT OF INDIA
MINISTRY OF WATER RESOURCES,
RIVER DEVELOPMENT & GANGA REJUVENATION
LOK SABHA
STARRED QUESTION NO. *412
ANSWERED ON 15.12.2016

RIVER WATER/BASIN MANAGEMENT

*412. SHRI MOHITE PATIL VIJAYSINH SHANKARRAO
 SHRI SUNIL KUMAR MONDAL

Will the Minister of WATER RESOURCES, RIVER DEVELOPMENT AND GANGA REJUVENATION be pleased to state:

- (a) the details of ongoing and proposed schemes/projects for River Water/Basin Management including the development/ rejuvenation/cleaning and upgradation of water level as well as optimal utilization of water of different rivers along with the funds allocated/released/used for the said purpose during the last three years and the current year, scheme-wise;
- (b) whether the Government is aware that the pollution level in various rivers is increasing day by day and the water level is falling continuously and if so, the river-wise details of pollution level as well as water level during the said period along with the steps taken/to be taken in this direction;
- (c) whether the Government has received any requests/projects from States for the purpose and if so, the State/UT - wise details thereof and the action taken thereon; and
- (d) the concrete measures taken/to be taken by the Government to improve the situation by indicating the specific efforts made to ensure proper river water/basin management?

ANSWER

THE MINISTER OF WATER RESOURCES, RIVER DEVELOPMENT AND GANGA REJUVENATION

(SUSHRI UMA BHARTI)

- (a) to (d) A statement is laid on the Table of the House.

STATEMENT REFERRED TO IN REPLY TO PARTS (a) to (d) OF STARRED QUESTION NO. *412 TO BE ANSWERED ON 15.12.2016 REGARDING RIVER WATER/BASIN MANAGEMENT

(a) The works related to water resources development & management are planned, funded, executed and maintained by the State Governments themselves as per their own resources and priorities. In order to supplement the efforts of the State Governments, Government of India provides technical and financial assistance to State Governments to encourage sustainable development and efficient management of water resources through various schemes and programmes such as Accelerated Irrigation Benefits Programme (AIBP), scheme for Repair, Renovation and Restoration (RRR) of water bodies etc.

The Central Government under Accelerated Irrigation Benefits Programme (AIBP) provides Central Assistance (CA) to State Governments to accelerate the implementation of the projects which are beyond resource capability of the States or are in advanced stage of completion. A total of 149 projects were ongoing under AIBP at the beginning of XII Plan. A Committee under the Chairmanship of Minister (WR, RD & GR), Government of Chhattisgarh prioritised 99 projects out of these ongoing projects under AIBP for completion in phases upto December, 2019, in consultation with States. Funding arrangements for these projects through NABARD has been made. The funds allocated/released for the projects under AIBP during the last three years and the current year are as per **Annexure-I & II** respectively.

The Government of India had launched Flood Management Programme (FMP) for providing central assistance to States for works related to river management, anti-erosion, restoration of damaged flood management works, anti-sea erosion etc. Under this programme, a total of 522 projects were approved in XI and XII Plan and a central assistance of Rs 4873.07 Crore has been released till date out of which an amount of Rs. 1307.07 crore was released in XII Plan. The State-wise details of projects approved, projects completed under Flood Management Programme (FMP) so far are given at **Annexure- III**.

Details of projects undertaken for cleaning Ganga by National Ganga River Basin Authority upto 30th September, 2016 are enclosed at **Annexure-IV**.

(b) & (c) The Central Pollution Control Board (CPCB) in association with State Pollution Control Boards and Pollution Control Committees is assessing the water quality of Rivers at 1275 locations in the country under National Water Quality Monitoring Programme. The network covers 445 Rivers. The long term assessment of water quality of Rivers revealed that there are 302 polluted river stretches on 275 Rivers which is listed at **Annexure-V**.

(d) A Memorandum of Understanding (MoU) was signed between Government of India and Government of Australia on 10th November, 2009 to enhance co-operation in the field of water resources development and management, wherein it was decided to carry out a study to prepare Integrated Water Resources Management(IWRM) Plan of Brahmani-Baitarani basin in collaboration with Australian experts. The study for preparation of IWRM plan of Brahmani part was carried out by the officials from Commonwealth Scientific and Industrial Research Organization (CSIRO), Australia. Similar exercise for Baitarani part was taken up by Basin Planning and Management Organization (BPMO) of Central Water Commission, Government of India. The study was completed in August 2016. Under National Hydrology Project-III, three basins namely, 1) Godavari Basin, 2) Krishna Basin and 3) Mahanadi Basin are included for IWRM study.

Further, the Government has taken various steps to check the pollution. Details are given in **Annexure-VI**.

Annexure-I

Annexure referred to in reply to part (a) of Starred Question No. *412 due for answer in Lok Sabha on 15.12.2016 regarding River Water/Basin Management.

Central Assistance Released under AIBP/PMKSY during 2013-14, 2014-15 & 2015-16									
Sl. No	State/Project Name	Maj./ Med./ ERM	Year of Inclusion in AIBP	DPA / TA	Basin/ River	CA Released During (Amount in Rs. Crore)			Cumulative CLA/Grant released upto 31.3.2016
						2013-14	2014-15	2015-16	
	ANDHRA PRADESH								
1	Yerrakalva Res.	Med.	2000-01	DPA	Yemakaha / Godavari	0.00	0.00	0.00	28.46
2	Tadipudi LIS	Maj.	2006-07	DPA	Godavari	0.00	0.00	0.00	48.22
3	Pushkara LIS	Maj.	2006-07	DPA	Godavari	0.00	0.00	0.00	47.08
4	Gundlakdamma	Maj.	2005-06	DPA	Gundlakamma	0.00	0.00	0.00	99.35
5	Thotapally Barrage	Maj.	2005-06	DPA/ TA	Nagavali	0.00	0.00	0.00	99.73
6	Tarakarama thirtha Sagaram	Med.	2005-06	DPA	Champavathi	0.00	0.00	0.00	33.01
7	Musurumilli	Med.	2007-08	DPA	Godavari	0.00	0.00	0.00	85.74
8	Indira Sagar (Polavaram)	Maj.	2008-09	DPA/ TA	Godavari	0.00	0.00	0.00	562.47
	TOTAL					0.00	0.00	0.00	1004.07
	ASSAM								
9	Dhansiri	Maj.	1996-97	TA	Brahmaputra / Dhansiri	0.00	31.15	49.85	226.60
10	Champamati	Maj.	1996-97	TA	Brahmaputra / Champamati	0.00	58.07	58.07	182.39
11	Borolia	Med.	1996-97	TA	Brahmaputra / Pagladia	0.00	0.00	0.00	29.80
12	Burhi Dihing lift	Med.	1997-98	TA	Brahmaputra / Burhi	0.00	0.00	0.00	4.22
	TOTAL					0.00	89.22	107.92	443.01
	BIHAR								
13	Western Kosi	Maj.	1996-97		Ganga / Kosi	0.00	0.00	0.00	252.10
14	Durgawati	Maj.	1996-97	DPA	Ganga	0.00	0.00	38.75	103.84
	Bansagar	Maj.	1997-98	DPA	Ganga / Sone	0.00	0.00	0.00	83.50
15	Batane	Med.	2000-01	DPA	Ganga	0.00	0.00	0.00	3.34
16	Punpun	Maj.	2007-08	DPA	Ganga/ Punpun	0.00	0.00	2.76	46.65
	TOTAL					0.00	0.00	41.51	489.42
	CHHATISGARH								
17	Kelo Project	Maj.	2008-09		Mahanadi / Kelo	13.61	0.00	0.00	40.66
18	Kharung	Maj / ERM	2010-11		Kharung /Hasdeo / Mahanadi	2.60	0.00	0.00	10.48
19	Sutiapat	Med.	2010-11	DPA/ TA	Karra nadi /Seonath / Mahanadi	0.00	0.00	0.00	18.47
20	Maniyari Tank (ERM)	Maj / ERM	2011-12	DPA- 44.78%	Maniyari /Shivnath / Mahanadi	21.33	0.00	0.00	43.58
	TOTAL					37.54	0.00	0.00	113.18
	GOA								
21	Tillari	Maj.	2000-01		West flowing / Tillari	0.00	0.00	0.00	255.42

	TOTAL					0.00	0.00	0.00	255.42
	GUJARAT								
22	Sardar Sarovar	Maj.	1996-97	DPA-24.54%	narmada / Sukhi	607.57	1033.94	128.00	8792.23
	TOTAL					607.57	1033.94	128.00	8792.23
	HIMACHAL PRADESH								
23	Shahnehar Irr. Project	Maj.	1997-98		Indus / Beas	0.00	0.00	0.00	203.86
24	Sidhata	Med.	2000-01		Indus	0.00	0.00	0.00	62.58
25	Balh Vally (Left Bank)	Med.	2009-10		Beas / Sukheti Khad	0.00	0.00	0.00	55.22
	TOTAL					0.00	0.00	0.00	321.66
	JAMMU & KASHMIR								
26	Mod. of Ranbir Canal*	Maj / ERM	1999-2000		Indus / Chenab	0.00	0.00	0.00	109.45
27	Mod. of New Pratap Canal*	Maj / ERM	1999-2000		Indus / Chenab	0.00	0.00	0.00	33.10
28	Rajpora Lift	Med.	2000-01		Indus / Jhelam	0.00	0.00	0.00	53.08
29	Tral Lift	Med.	2000-01		Indus / Jhelam	0.00	14.21	19.28	97.01
30	Mod. Of Dadi Canal	Med / ERM	2006-07		Indus	0.00	0.00	0.00	34.50
31	Mod. Kandi Canal	Med/ERM	2007-08	DPA/TA	Kagunegad nalla (Kahara)	0.00	0.00	0.00	16.20
32	Prakachik Khows Canal	Med.	2007-08		Suru	7.20	0.00	7.02	31.65
33	Mod. Of Ahji Canal	Med / ERM	2008-09		Indus / Sukhnagh Nallah	0.00	0.00	0.00	12.09
34	Restoration & Mod. Of Main Ravi Canal	Maj / ERM	2011-12		Ravi	6.65	0.00	8.01	36.28
	TOTAL					13.85	14.21	34.31	423.37
	JHARKHAND								
35	Gumani	Med.	1997-98	TA	Ganga	0.00	0.00	0.00	31.40
36	Sonua	Med.	1997-98	TA	Subernarekha	0.00	0.00	0.00	19.25
37	Surangi	Med.	1997-98	TA	Subernarekha	0.00	0.00	0.00	13.28
38	Upper Sankh	Med.	2004-05	TA	Brahmani	0.00	0.00	0.00	26.35
39	Panchkhero	Med.	2004-05		Ganga	0.00	0.00	0.00	8.24
40	Subernarekha Multipurpose	Maj	2011-12	TA	Subernarekha	0.00	0.00	281.62	1132.88
	TOTAL					0.00	0.00	281.62	1231.41
	KARNATAKA								
41	Upper Krishna St.I	Maj.	1996-97	DPA	Krishna / Krishna	0.00	0.00	0.00	1380.66
42	Malaprabha	Maj.	1996-97	DPA	Malaprabha / Krishna	0.00	0.00	0.00	471.94
43	Karanja	Maj.	1997-98	DPA	Manjeera / Godavari	0.00	0.00	0.00	189.03
44	Upper Krishna St.II	Maj.	2001-02	DPA	Krishna / Krishna	0.00	0.00	0.00	1521.31
45	Varahi	Maj.	2007-08		West Flowing Rivers	19.51	0.00	0.00	99.64
46	Dudhganga	Maj.	2008-09	DPA	DUDHGANGA / Krishna	0.00	0.00	0.00	7.51
47	Mod. Canal System of Bhadra Reservoir Canal System (ERM)	Maj / ERM	2008-09	DPA-4.8%	Bhadra / Krishna	0.00	0.00	0.00	196.47
48	Hipparagi LIS	Maj.	2008-09	DPA-93%	Krishna	16.93	0.00	0.00	751.89
49	Restoration Bhimasamundra Tank	Med / ERM	2009-10	DPA	,,.....	0.00	0.00	0.00	3.48

50	Bhima LIS	Maj.	2009-10	DPA	Krishna	141.57	0.00	0.00	298.17
51	Guddada Malapura Lift	Med	2009-10	DPA	Varada/ *Krishna	22.11	0.00	0.00	79.35
52	Upper Tunga Irrigation Project					0.00	70.00	156.24	226.24
53	Sti Rameswar Irrigation					0.00	10.82	51.92	62.74
54	NLBc System Project(New ERM)					0.00	70.00	0.00	70.00
	TOTAL					200.12	150.82	208.16	5358.42
	KERALA								
55	Muvattupuzha	Maj.	2000-01		Thodupuzha / Muvattupuzha	0.00	0.00	0.00	154.97
56	Karapuzha	Med.	2006-07		Kabani / Panamaram	0.00	0.00	0.00	2.72
57	Kanhirapuzha	Med / ERM	2008-09		Bharathapuzha / Kanhirapuzha	0.00	0.00	0.00	5.07
58	Chitturpuzha	Maj / ERM	2010-11		Bharathapuzha / Aliyar / Chitturpuzha	0.00	0.00	0.00	5.85
	TOTAL					0.00	0.00	0.00	168.61
	MADHYA PRADESH								
59	Indira Sagar Unit II (Ph I & II)	Maj.	1996-97	DPA- 78%		17.99	0.00	36.58	1054.62
	Indira Sagar Canal Ph. III	Maj.	2007-08	DPA	Narmada	121.90	0.00	24.38	354.44
	Indira Sagar Unit IV	Maj.	2008-09	DPA	Narmada	0.00	0.00	0.00	89.48
	Indira Sagar Unit V	Maj.	2014-15		Narmada	0.00	47.19	0.00	47.19
	Bansagar Unit-II	Maj	2003-04	DPA - 22%	Ganga / Sone	33.42	0.00	0.00	483.70
60	Sindh Phase II	Maj.	1998-99		Ganga	39.29	0.00	52.12	605.04
61	Mahi	Maj.	2000-01	DPA/ TA-94%	Mahi	0.00	0.00	0.00	371.12
62	Bariarpur LBC	Maj.	2000-01		Ganga / Kan	1.18	0.00	0.00	111.25
63	Bawanthadi	Maj.	2003-04		Godavari / Bawanthadi	0.00	0.00	0.00	94.93
64	Mahan	Maj.	2003-04		Ganga / Mahan	0.00	0.00	0.00	139.13
65	Omkareshwar Ph - I	Maj.	2003-04		Narmada	0.00	0.00	0.00	164.28
	Omkareshwar, Ph.-II	Maj.	2007-08	DPA- 93%	Narmada	12.07	0.00	0.00	123.92
	Omkareshwar, Ph.- III	Maj.	2007-08	DPA	Narmada	15.00	0.00	0.00	144.88
	Omkareshwar, Ph.- IV	Maj.	2014-15		Narmada	0.00	48.82	63.11	111.93
66	Bargi Diversion Ph - I	Maj.	2001-02		Narmada	0.00	0.00	0.00	140.65
	Bargi Diversion Ph - II	Maj.	2002-03		Narmada	0.00	0.00	0.00	114.47
	Bargi Diversion Ph - III	Maj.	2007-08		Narmada	15.08	0.00	0.00	71.07
	Bargi Diversion Ph- IV	Maj.	2008-09		Narmada	11.90	0.00	3.46	22.73
67	Pench Div-I	Maj.	2007-08		Godavari / Pench	0.00	0.00	0.00	16.38
68	Upper Beda	Maj.	2008-09	DPA- 32.12%/ TA- 67.88%	Narmada / Beda	0.00	0.00	0.00	88.35
69	Punasa lift	Maj.	2008-09	DPA	Narmada	0.00	0.00	0.00	382.02
70	Lower Goi	Maj.	2008-09	DPA- 35.48%/ TA- 65.42%	Goi	17.10	0.00	0.00	232.21
71	Jobat	Med	2010-11	DPA/ TA	Hatani / Narmada	0.71	0.00	0.00	17.37
72	Sagar(Sagad)	Med.	2011-12		Sagar / Betwa /	2.85	0.00	0.00	26.60

					Yamuna				
73	Singhpur	Med.	2011-12		urimil / Ken / Yamuna	14.79	0.00	0.00	30.54
74	Sanjay Sagar (Bah)	Med.	2011-12		Bah / Betwa / Yamuna	3.02	0.00	0.00	26.44
75	Mahuar	Med.	2013-14		Mahuar	8.10	0.00	8.56	16.66
	TOTAL					314.40	96.01	188.21	5081.39
	MAHARASHTRA								
76	Gosikhurd [NP]	Maj.	1996-97	DPA	Godavari / Wainganga	0.00	0.00	0.00	3530.01
77	Waghur	Maj.	1996-97	DPA-91.86%	Tapi / Waghur	37.34	1.70	94.30	573.33
78	Upper Manar	Med.	2002-03		Godavari / Manar	0.00	0.00	0.00	96.39
79	Upper Pen Ganga	Maj.	2004-05	DPA-29.573%	Godavari	26.94	1.59	27.53	328.12
	Bawanthadi [IS]	Maj.	2004-05		Godavari / Wainganga	0.00	0.00	11.86	161.36
80	Lower Dudhna	Maj.	2005-06		Godavari	21.60	1.76	38.20	261.30
	Tillari	Maj.	2005-06		West Flowing	0.00	0.00	16.35	105.69
81	Warna	Maj.	2005-06		Krishna	0.00	0.00	0.00	69.40
82	Punad	Maj.	2006-07	DPA-38.46% / TA-61.54%	Punad / Tapi	0.00	0.00	0.00	137.67
83	Lower Wardha	Maj.	2006-07		Godavari / Wardha	16.88	0.00	80.50	252.07
84	Khadakpurna	Maj.	2006-07	DPA-90.52%	Khadakpurna / Godavari	0.00	0.00	0.00	574.93
85	Dongargaon	Med.	2005-06	DPA	Godavari	0.00	0.00	0.00	16.90
86	Gul	Med.	2005-06		Tapi	0.00	0.00	0.00	24.89
87	Bembla	Maj.	2007-08	DPA-84.64%	Bembla / Godavari	79.45	2.24	19.50	721.06
88	Uttermand	Med.	2007-08		Uttermand / Krishna	0.00	0.00	0.00	7.97
89	Sangola Branch Canal	Maj.	2007-08	DPA	Yelwaladi / Nira	0.00	0.00	0.00	139.06
90	Tarali	Maj.	2007-08	DPA - 62%	Tarali / Krishna	18.67	1.09	10.04	253.43
91	Dhom Balakwadi	Maj.	2007-08	DPA-30%	Krishna	24.12	1.52	9.52	152.98
92	Morna (Gureghar)	Med.	2007-08		Morna / Koyna	0.00	0.00	0.00	9.82
93	Arjuna	Med.	2007-08		Arjuna / Kodavali	0.00	0.00	0.00	79.50
94	Lower Pedhi	Maj.	2008-09	DPA	Tapi/Purna/Pedhi	0.00	0.00	0.00	219.42
95	Upper Kundalika	Med	2008-09	DPA	Godavari/Kundalika	0.00	0.00	0.00	101.12
96	Wang Project	Med	2008-09		Krishna/Wang	0.00	0.00	0.00	14.53
97	Lower Panzara	Med	2009-10	DPA	Tapi / Panzara	0.00	0.00	0.00	114.87
98	Aruna	Med	2009-10		Aruna	0.00	22.50	0.00	70.54
99	Krishna Koyana Lift	Maj.	2009-10	DPA-93.51%	Krishna	54.53	0.00	0.00	479.47
100	Naradave (Mahammadwadi)	Med	2009-10		Gad	0.00	0.00	0.00	37.68
101	Gadnadi	Med	2009-10		Gad / Shastri	0.00	0.00	0.00	37.80
102	Kudali	Med	2009-10		Krishna / Kudali / Hatgeghar	0.00	0.00	0.00	12.22
	Nandur Madhmeshwar Ph-II	Maj.	2009-10	DPA	Godavari / Darna	0.00	0.00	0.00	175.28
	TOTAL					279.53	32.40	307.80	8758.76
	MANIPUR								

103	Khuga	Maj.	1996-97	TA	North Eastern Rivers	0.00	0.00	0.00	193.98
104	Thoubal	Maj.	1997-98	TA	North Eastern Rivers	0.00	67.50	103.03	903.37
105	Dolaithabi Barrage	Med.	2002-03	TA	North Eastern Rivers	0.00	15.18	39.35	270.12
	TOTAL					0.00	82.68	142.38	1367.48
	ORISSA								
106	Upper Indravati(KBK)	Maj.	1996-97	DPA	Indravathi / Indravathi	0.00	11.06	8.92	538.10
107	Subernarekha	Maj.	1996-97	DPA	Subernarekha / Subernarekha	0.00	0.00	125.12	1435.17
108	Rengali	Maj.	1996-97		Brahmani / Brahmani	0.00	0.00	0.00	261.56
109	Anandpur Barr./ Integrated Anandpur Barr.	Maj / ERM	1996-97		Salandi / Baitarani	0.00	0.00	0.00	97.92
110	Lower Indra(KBK)	Maj.	1999-2000	DPA/ TA	Indra / Mahanadi	0.00	0.00	39.76	987.10
111	Lower Suktel(KBK)	Maj.	1999-2000	DPA	Suktel / Mahanadi	0.00	0.00	0.00	232.39
112	Telengiri(KBK)	Maj.	2003-04	DPA	Telengiri / Indravathi	0.00	0.00	0.00	145.33
113	RET Irrigation(KBK)	Med.	2003-04	DPA/ TA	Ret / Mahanadi	0.00	0.00	0.00	94.32
114	Kanupur	Maj.	2003-04	DPA/ TA	Baitarni / Baitarni	0.00	0.00	0.00	612.75
115	Chheligada Dam	Med.	2003-04		Sadajhar / Vamsdhara	0.00	0.00	0.00	13.13
116	Rukura-Tribal	Med	2009-10	DPA/ TA	Bolani / Brahmani	0.00	8.92	0.00	63.66
	TOTAL					0.00	19.98	173.80	4481.43
	PUNJAB								
117	Shahpur Kandi dam (N.P)	Maj.	2001-02		Indus	0.00	0.00	0.00	55.89
118	Kandi Canal Extension (Ph.II)	Maj / ERM	2002-03		Indus	0.00	0.00	1.05	93.48
119	Rehabilitation of Ist Patiala Feeder and Kotla Branch Project	Maj / ERM	2007-08		Indus	0.00	0.00	0.00	29.61
120	Relining of Rajasthan Feeder Cannal	Maj / ERM	2010-11	DPA	Indus	0.00	0.00	0.00	105.84
	Relining of Sirhind Feeder Canal	Maj / ERM	2010-11	DPA	Indus	0.00	0.00	0.00	0.00
	TOTAL					0.00	0.00	1.05	284.81
	RAJASTHAN								
121	IGNP Stage-II	Maj.	1997-98	DPA	Indus	0.00	0.00	0.00	582.23
122	Narmada Canal	Maj.	1998-99	DPA	Narmada	0.00	9.49	45.51	1084.05
123	Mod. of Gang Canal	Maj / ERM	2000-01		Indus	0.00	0.00	0.00	217.74
	TOTAL					0.00	9.49	45.51	1884.02
	TELANGANA								
124	FFC of SRSP	Maj / ERM	2005-06	DPA/ TA	Godavari	0.00	0.00	0.00	382.40
125	SRSP St.II	Maj / ERM	2005-06	DPA/ TA-13.5%	Godavari	0.00	0.00	0.00	139.47
126	Ralivagu	Med.	2006-07	DPA/ TA	Godavari	0.00	0.00	0.00	6.71
127	Gollavagu	Med.	2006-07	DPA/ TA	Godavari	0.00	0.00	0.00	60.47
128	Mathadivagu	Med.	2006-07	DPA/ TA	Godavari	0.00	0.00	0.00	37.02
129	Peddavagu	Med.	2006-07	DPA/ TA	Godavari	0.00	0.00	0.00	106.03
130	J. Chokka Rao LIS	Maj.	2006-07	DPA/ TA	Godavari	0.00	65.33	112.50	1317.09

131	Neelwai	Med.	2006-07	DPA/ TA	Godavari	0.00	0.00	0.00	18.40
132	Sri Komaram Bheem	Med.	2006-07	DPA	Godavari	0.00	0.00	0.00	145.54
133	Palemvagu	Med.	2005-06	DPA/ TA	Godavari	0.00	0.00	0.00	9.54
134	Rajiv Bhima LIS	Maj.	2007-08	DPA	Krishna / Krishna	0.00	0.00	0.00	1165.67
	TOTAL					0.00	65.33	112.50	3388.33
	TRIPURA								
135	Manu	Med.	1996-97	TA	Meghna	0.00	0.00	0.00	52.10
136	Gumti	Med.	1996-97	TA	Meghna	0.00	0.00	0.00	40.65
137	Khowai	Med.	1996-97	TA	Meghna	0.00	0.00	0.00	33.54
	TOTAL					0.00	0.00	0.00	126.29
	UTTAR PRADESH								
138	Saryu Nahar NP	Maj.	1996-97		Ganga / Saryu	380.75	210.86	500.00	1988.20
139	Bansagar Canal	Maj.	1997-98	DPA- 16.78%	Ganga / Sone	0.00	47.92	55.04	867.57
140	Mod. of Lachhura Dam	Maj / ERM	2005-06	DPA- 12.90%	Dhasin	0.00	0.00	0.00	66.90
141	Improving Irr. Intensity of Hardoi Branch System	Maj / ERM	2006-07		Sarda	0.00	0.00	0.00	24.79
142	Madhya Ganga Canal Ph-II	Maj.	2008-09		Ganga	0.00	15.37	0.00	191.95
143	Kachnoda Dam	Maj.	2009-10		Dhasan, Betwa / Sajnum	0.00	0.00	0.00	64.68
144	Arjun Shyak	Maj.	2009-10	DPA	Dhasan	214.98	33.85	0.00	556.72
145	Restoring Cap of Sarda Sahayak [NP]	Maj / ERM	2009-10	TA	Ganga	0.00	0.00	0.00	39.38
	TOTAL					595.73	307.99	555.04	3800.19
	WEST BENGAL								
146	Teesta Barrage [N.P]	Maj.	1996-97	TA	Brahmaputra / Teesta	0.00	0.00	0.00	331.12
147	Tatko	Med.	2000-01	DPA/ TA	Ganga / Kangsabati	0.00	0.00	0.00	5.98
148	Patloi	Med.	2000-01	DPA/ TA	Ganga / Kangsabati	0.00	0.00	0.00	5.12
149	Subernrekha Barrage ++	Maj.	2001-02	TA	Subernarekha	0.00	0.00	0.00	13.29
	TOTAL					0.00	0.00	0.00	355.50
	Grand Total					2048.74	1902.07	2327.80	48129.00

Annexure-II

Annexure referred to in reply to part (a) of Starred Question No. *412 due for answer in Lok Sabha on 15.12.2016 regarding River Water/Basin Management.

CENTRAL ASSISTANCE RELEASED UNDER PMKSY during 2016-17				
Sl. No.	Name of State/Project (Started in Plan)	Rs. In Crore		
		2016-17 (GRANT)	2016-17 (NABARD)	Total 2016-17
	GUJARAT			
1	Sardar Sarovar	166.66	314.279	480.939
	KARNATAKA			
2	Bhima Lift Irrigation Scheme		22.444	22.444
3	Upper Tunga Irrigation Projec	78.587		78.587
	MADHYA PRADESH			
4	Sindh Phase-II	29.067	6.4497	35.5167
5	Mahi		3.62	3.62
6	Bariarpur		6.615	6.615
7	Mahan		2.379	2.379
8	Bargi Dam PH-I	5.656		5.656
9	Bargi Div.PH-II		11.648	11.648
10	Bargi Diversion Ph.III		33.85	33.85
11	Bargi Diversion Ph.IV		11.279	11.279
12	Omkareshwar Project Ph.II		10.995	10.995
13	Omkareshwar Canal Ph.III		14.058	14.058
14	Omkareshwar Canal Ph.IV	40.178		40.178
15	Indira Sagar Canal Ph.III	13.29		13.29
16	Indira Sagar Canal Ph.IV		29.219	29.219
17	Indira Sagar Canal Ph.V		9.512	9.512
18	Indira Sagar Unit-II (Ph.I & II)	4.275		4.275
19	Singhpur Irrigation project		1.944	1.944
20	Sagar(Sagad) Irrigation project		2.506	2.506
21	Sanjay Sagar (Bah) MI project		2.995	2.995
	MAHARASHTRA			
22	Waghur	81.704		81.704
23	Upper Pen Ganga		11.03	11.03
24	Bawanthadi		16.837	16.837
25	Lower Dudhana		39.622	39.622
26	Nandur Madhmeshwar Phase-II		8.02	8.02
27	Lower Wardha (PMP)	102.47		102.47
28	Bembla Irrigation Project		22.73	22.73
29	Tarali Project		24.382	24.382
30	Dhom balakwadi Project		5.205	5.205
31	Morna Gureghar Project		0.325	0.325
32	Lower Panzara Project		2.709	2.709

33	Nardave Project		1.269	1.269
34	Krishna-Koyna Lift Irrigation		23.09	23.09
	MANIPUR			
35	Thoubal		79.893	79.893
36	Dolaithabi Barrage Project		9.36	9.36
	ORISSA			0
37	Integrated Anandpur Barrage		16.389	16.389
38	Lower Indra		24.73	24.73
	PUNJAB			
39	Kandi Canal Extension St.II		41.184	41.184
40	Rehabilitation of 1st Patiala Feeder and Kotla Branch		5.99	5.99
	RAJASTHAN			
41	Mod.of Gang Canal		5.1	5.1
	TELANGANA			
42	Sriramsagar Project - II		10.398	10.398
43	J.Chokkarao LIS	300.006		300.006
44	Nilwai		0.674	0.674
	Total	821.893	832.7297	1654.6227

Annexure-III

Annexure referred to in reply to part (a) of Starred Question No. *412 due for answer in Lok Sabha on 15.12.2016 regarding River Water/Basin Management.

State-Wise Works Approved, Works Completed and Funds Released under Flood Management Programme (FMP) during XI and XII Plan (up to 22.11.2016)

Rs. in crore

Sl. No.	State	XI Plan			XII Plan			Total (XI + XII Plan) Status			
		Works Approved		Funds Released (XI Plan)	Works Approved		Funds Released (XII Plan)	Works Approved		Number of Works Completed	Total Funds Released (XI + XII Plan)
		Nos.	Estimated Cost		Nos.	Estimated Cost		Nos.	Estimated Cost		
1	Arunachal Pradesh	21	224.69	81.69	0	0.00	87.91	21	224.69	11	169.60
2	Assam	100	996.14	748.86	41	1386.97	64.89	141	2383.11	94	813.75
3	Bihar	43	1370.42	723.18	4	447.63	184.64	47	1818.05	41	907.82
4	Chhattisgarh	3	31.13	15.57	0	0.00	3.75	3	31.13	0	19.32
5	Goa	2	22.73	9.98	0	0.00	2.00	2	22.73	2	11.98
6	Gujarat	2	19.79	2.00	0	0.00	0.00	2	19.79	1	2.00
7	Haryana	1	173.75	46.91	0	0.00	0.00	1	173.75	0	46.91
8	Himachal Pradesh	3	225.32	165.98	4	1139.62	221.87	7	1364.94	1	387.85
9	Jammu & Kashmir	28	408.22	252.57	15	562.47	169.95	43	970.69	8	422.52
10	Jharkhand	3	39.30	18.44	0	0.00	4.27	3	39.30	2	22.71
11	Karnataka	3	59.46	23.80	0	0.00	0.00	3	59.46	0	23.80
12	Kerala	4	279.74	63.68	0	0.00	55.22	4	279.74	0	118.90
13	Manipur	22	109.34	66.34	0	0.00	24.36	22	109.34	19	90.70
14	Meghalaya	0	0.00	3.81	0	0.00	0.00	0	0.00	0	3.81
15	Mizoram	2	9.13	14.48	0	0.00	1.93	2	9.13	0	16.41
16	Nagaland	11	49.35	28.96	6	74.52	54.17	17	123.87	9	83.12
17	Orissa	67	169.00	101.12	1	62.32	0.00	68	231.32	60	101.12
18	Puducherry	1	139.67	7.50	0	0.00	0.00	1	139.67	0	7.50
19	Punjab	5	153.40	40.43	0	0.00	0.00	5	153.40	0	40.43
20	Sikkim	28	104.92	83.69	17	261.40	8.15	45	366.32	21	91.84
21	Tamilnadu	5	635.54	59.82	0	0.00	0.00	5	635.54	0	59.82
22	Tripura	11	26.57	23.62	0	0.00	0.00	11	26.57	8	23.62
23	Uttar Pradesh	26	667.57	290.69	3	291.70	111.22	29	959.27	6	401.91
24	Uttrankhand	12	119.82	49.63	10	715.72	153.98	22	835.54	8	203.61
25	West Bengal	17	1822.08	643.26	1	438.94	158.75	18	2261.02	6	802.01
	Total	420	7857.08	3566.00	102	5381.28	1307.07	522	13238.36	297	4873.07

Annexure referred to in reply to part (a) of Starred Question No. *412 due for answer in Lok Sabha on 15.12.2016 regarding River Water/Basin Management.

Status of Approved Projects under National Ganga River Basin Authority as on 30th September 2016					
Name of The States	Name of the Projects	Sanctioned Cost (Rs in Crores)	STP Capacity to be created (MLD)	Sewer Network to be laid(Km)	Scope
Uttarakhand	Sewage Treatment Plant (STP)-Badrinath	4.62	3		
	Interception and Diversion (I&D) -Badrinath	7.26		7.53	
	Sewage Treatment Plant (STP)-Karanprayag	3.49	1.40		
	Interception and Diversion (I&D) -Deoprayag	7.27		7.60	
	Interception and Diversion (I&D) -Karanprayag	5.32		3.50	
	Interception and Diversion (I&D)-Rudraprayag	7.92		6.69	
	Sewage Treatment Plant (STP)-Rudraprayag	4.7	3.00		
Uttarakhand	Interception and Diversion (I&D) -Joshimath	9.61		27.66	
	Interception and Diversion (I&D)	10.18		35.63	
	Sewerage System and STP for Gangotri Dham-Gangotri	10.48	1.00	2.75	
	Sewerage scheme and STP at Muni ki Reti Dhalwala	95.6	7.50	29.52	
Uttarakhand	Restoration and Reconstruction of Sewerage Scheme due to disaster in Devprayag	4.5			
	Restoration and Reconstruction of Sewerage Scheme due to disaster in Gangotri	0.45			
Uttarakhand	Restoration and Reconstruction of Sewerage Scheme due to disaster in Uttarkashi	4.84			
	Sewage Treatment Plant (STP)-Jagjeetpur,Haridwar	71.4	40.00		
	Development of Ghat(Chandi Ghat, Haridwar)Under Namami Gange Programme	50.36			
Uttar Pradesh	Sewerage & Non - Sewerage schemes for Pollution abatement of River Ganga at District-'B' & 'E' of Allahabad	199.26	85	10.88	
	Sewerage & Non - Sewerage schemes for Pollution abatement of River Ganga at District -'A' of Allahabad	106.08	20	9.24	

	Sewerage work in Sewerage District - E	142		109.2	
	Sewerage system & STP works at Garhmukteshwar	46.51	9	69	
	Sewerage system & STP works (Phase I) at Moradabad	279.91	58	264.25	
	Sewerage system & STP works (Phase II) at Kannauj	43.66	1	62.5	
	Development of area around at Assi Ghat	27.28			
Uttar Pradesh	JICA assisted Ganga Action Plan Phase-II Project at Varanasi	496.9	140	28	
	14 mld STP at Salori, Allahabad	42.44	14		
	Sewerage System in Sewerage District-C & Allahpur, Allahabad	146.87		134.19	
	Sewerage scheme and STP at Bithoor Kanpur Nagar, (UP)	59.68	2.4	32	
	Sewerage Works in Sewerage District-A of Allahabad	288.94		241.63	
	Sewerage scheme at Narora, Bulandshar	34.87	4	21.03	
	Sewerage Works in Anup Shahar, Buland Shahar	75.79	2.5	58.88	
	Sewerage network in sewerage district B of Allahabad	265.86		214.88	
	Sewer Network in District E of Allahabad -Part 2	52.78			
Under New Initiatives of Namami Gange					
Uttar Pradesh	Rehabilitation / Development Works of Ghats and Crematoria at Brijghat - Garhmukteshwar	15.87			3 Ghats + 1 Crematoria
	Rehabilitation / Development Works of Ghats and Crematoria in the stretch from Bakhtawarpur to Anupshahr	41.62			4 Ghats + 4 Crematoria
	Rehabilitation / Development Works of Ghats and Crematoria in the stretch from Balwali to Bakhtawarpur	74.08			5 Ghats + 7 Crematoria
	Rehabilitation / Development Works of Ghats in the stretch from Anupshahr to Kacchla	52.89			11 Ghats
	Rehabilitation / Development Works of Ghats and Crematoria at Bijnore along river Ramganga	11.84			2 Ghats + 4 Crematoria

Uttar Pradesh	Rehabilitation / Development Works of Ghats and Crematoria at Kanpur	47.39			11 Ghats + 2 Creamtoria
	Rehabilitation / Development Works of Ghats and Crematoria at Allahabad	88.03			10 Ghats + 6 Creamtoria
	Rehabilitation / Development Works of Ghats and Crematoriums in the stretch from Anupshahr to Kacchla	51.93			13Creamtoria
	Rehabilitation / Development Works of Ghats and Crematoriums at Anupshahr	14.11			1 Ghats + 1 Creamtoria
Bihar	Begusarai Sewerage and STP project	65.4	17	105	
	Buxar Sewerage and STP project	74.95	16	95.21	
Bihar	Hajipur Sewerage and STP Project	113.62	22	198	
	Ganga River Front Development at Patna (EAP - World Bank)	243.27			
	Sewage Treatment Plant at Pahari - Patna, Bihar	127.3	60		
	Sewerage scheme at Pahari (Zone IVA (S)), Patna, Bihar (EAP - World Bank)	133.64		87.69	
Bihar	Sewerage scheme at Pahari Zone V, Patna, Bihar	214.31		110.65	
	Sewage Treatment Plant - Beur for Patna	68.16	43		
	Sewage Treatment Plant - Karmalichak for Patna, Bihar (EAP - World Bank)	77.04	37		
	Sewerage system with Sewer network-Patna (Beur) (EAP - World Bank)	225.77		179.74	
	Sewerage system with Sewer network -Patna (Karmalichak) (EAP - World Bank)	170.71		96.54	
Bihar	Saidpur STP and adjoining Network for Patna, Bihar	184.93	60		

	Saidpur Sewer Network, Patna, Bihar	268.63		172.5	
	Ghat development and Crematoria at Buxar	32.84			6 Ghat + 1 Crematoria
	Ghat development and Crematoria at Sonapur	32.35			7 Ghat + 1 Crematoria
	Ghat development and Crematoria at Hajipur	23.61			7 Ghat + 1 Crematoria
	Ghat development and Crematoria at Munger	33.7			3 Ghat + 1 Crematoria
	Ghat development and Crematoria at Jamalpur	11.57			2 Ghat + 1 Crematoria
Bihar	Afforestation programme in Bihar-under the Namami Gange Programme (Bihar Forest Department)	6.03			Plantation of indigenous tree species for a period of 1 year
Jharkhand	Sewerage scheme and STP at Sahibganj	99.36	12	55	
	Ghat Development and Crematoria between Sahibganj to Rajmahal at Sahibganj	42.27			10 Ghat + 2 Crematoria
	Ghat development and Crematoria at Sahibganj	10.2			2 Ghat + 1 Promendade + 1 Crematoria
	Ghat development and Crematoria at Rajmahal	9.55			2 Ghat + 1 Crematoria
Jharkhand	Ghat development and Crematoria at Kanhaiyasthan	8.74			1 Ghat
	Rural Sanitation initiatives for Ganga Rejuvenation in Jharkhand- UNDP	127.83			Rural Sanitation in Jharkhand
	Afforestation programme in Jharkhand-under the Namami Gange Programme (Jharkhand Forest Department)	7.99			Plantation of indigenous tree species for a period of 1 year
West Bengal	Gayeshpur	168.67	8.23	61	
	Kalyani	57.87	5	51	
	Bhatpara	228.52	31	125	
West Bengal	Sewerage scheme & STP Halishar	274.76	16	226.99	
	Sewerage System and STP at Budge-Budge	145.98	9.3	131.59	
	Sewerage system with Sewer network and STP	272.32	24	247.14	
	Upgradation/ Modification of Ghats in Garulia Town	11.63			11 Ghats

	Upgradation/ Modification of Ghats in Garulia Town	3.14			2 Creamatoria
	Upgradation/ Modification of Ghats in Bhatpara Town	3.73			2 Creamatoria
West Bengal	Upgradation/ Modification of Ghats in Naihati Town	2.53			2 Creamatoria
	Afforestation programme in West Bengal-under the Namami Gange Programme (West Bengal Forest Department)	11.16			Planatation of indigenou tree species for a period of 1 year

Annexure referred to in reply to parts (b) & (c) of Starred Question No. *412 due for answer in Lok Sabha on 15.12.2016 regarding River Water/Basin Management.

STATE-WISE POLLUTED RIVER STRETCHES

- The State-wise details of polluted rivers and category of priority classes are appended.

Andhra Pradesh - Godavari, Hundari, Krishna, Tungabhadra, Pennar and Kundu falling in priority class – V based on the level of BOD.

Assam - Mora Bharali, Barak, Beki, Bharalu, Bhogdoi, Boginadi, Brahmaputra, Burhidihing, Deepar Bill, Dhansiri, Digboi, Disang, JiaBharali, Jhanji, Kalong, Kapili, Kharsang, Kohora, Kundli, Kushiara, Manas, Pagadia, Panchnai, Ranganadi, Sankosh, Sonai, Subansiri, Kathakal. These rivers are classified in three priority classes (Class I, IV and V).

Bihar - Ganga, Harbora, Manusmar, Ramrekha and Sirsia. The polluted rivers in Bihar are in 4 priority classes (Class-II, III, IV and V).

Chhattisgarh - Hasdeo, Kelo, Kharoon, Mahanadi and Seonath in priority class V.

Daman and Diu -Damanganga in Priority class – I

Delhi - Yamuna in Priority class – I

Goa - Mandovi, Assonora, Bicholim, Chapora, Khandepar, Mapusa, Sal and Valvant. These rivers are classified in Priority Class – III, IV and V based on the level of BOD.

Gujarat - Mahi, Narmada, Ambika, Amlakhadi, Anas, Baleshwar Khadi, Bhadar, Damanganga, Kaveri, Khari, Kim, Kolak, Mahi, Mindhola, Narmada, Panam, Bhogavo, Dhadar, Purna, Sabarmati, Shedi, Tapi and Triveni These rivers are classified in four priority classes (Class I, III, IV and V).

Haryana - Ghaggar and Yamuna. The polluted rivers in Haryana are in 2 priority classes (Class-II and IV).

Himachal Pradesh - Beas, Tons, Sirsa, Swan, Sukhana, Suketikhad, Markanda and Binwa falling in priority class I, IV and V based on the level of BOD.

Jammu and Kashmir - Banganga, Basanter, Chenab, ChuntKol, Dewak, Gawkadal, Jhelam, LiddarNalah and Tawi. These rivers are classified in two priority classes (Class IV and V).

Jharkhand - Bokaro, Damodar, Jumar, Karo, Koel, North Koel, Sankh and Subarnrekha. The polluted rivers in Jharkhand are in 2 priority classes (Class- IV and V).

Karnataka - Arkavathi, Bhadra, Bhima, Cauvery, Ghatprabha, Kabini, Kagina, Kali, Krishna, Lakshmantirtha, Malprabha, Manjira, Shimsha, Tungabhadra and Tunga. These rivers are classified in priority class IV and V based on the level of BOD.

Kerala - Chitrapuzha, Kadambayar, Kallai, Karamana, Keecheri, Kuppam, Manimala, Neeleswaram, Periyar, Pullur, Puzhckal, Thirur and Uppala. These rivers are classified in three priority classes (Class – I, IV and V).

Madhya Pradesh - Banjar, Betwa, Bichia, Chambal, Chillar, Denwa, Gohad, Gour, Jammer, Kalisot, Khan, Kolar, Kshipra, Kunda, Malei, Narmada, Parvati, Shivna, Tapi, Tons and Wainganga. The polluted rivers in Madhya Pradesh are in 5 priority classes (Class- I, II, III, IV and V).

Maharashtra - Wena, Wainganga, Godavari, Bhima, Krishna, Ulhas, Kundalika, Tapi, Girna, Panchganga, Nira, Bhatsa, Rangavali, Chandrabhaga, Vashishti, Mithi, Kanhan, Koyna, Amba, Amravati, Bindusara, Darna, Ghod, Gomai, Hiwara, Indrayani, Kan, Manjra, Mor, Morna, Mula, Mula- Mutha, Mutha, Panzara, Patalganga, Pawna, Pedhi, Pehlar, Penganga, Purna, Savitri, Sina, Surya, Urmodi, Vel, Vaitrana, Venna, Waghur and Wardha. These rivers are classified in priority class I, II, III, IV and V based on the level of BOD.

Manipur - Barak, imphal, Iril, Khuga, Khujairok, Lokchao, Maha, Manipur, Nambul, Sekmai, Thoubal and Wangjing. These rivers are classified in priority class II, III, IV and V based on the level of BOD.

Meghalaya- Bugi, Kynshi, Kyrhukhla, Lukha, Myndtu, Nonbah, Umkhrah, Umshyrpi, Umtrew and Wahbei. These rivers are classified in four priority classes (Class – I, III, IV and V).

Nagaland - Chathe, Dhansiri and Dzu. These rivers are classified in priority class II and IV based on the level of BOD.

Odisha - Brahmani, Budhalbhanga, Daya, Kathjodi, Koel, Kuakhai, Mahanadi, Nagavali, Rushikulya, Serua and Vanasdhara. The polluted rivers in Odisha are in 4 priority classes (Class- II, III, IV and V).

Punjab - Ghaggar and Satluj in two priority classes (Class – I and II).

Rajasthan - Banas, Chambal, Chappi, Ghaggar, kali sindh, Parvati, Jawai and Ujad. These rivers are classified in priority class I, II, III and V based on the level of BOD.

Sikkim - Dikchu, ManeyKhola, Rangit, Ranichu, Teesta. The polluted rivers in Sikkim are in priority class V.

Tamil Nadu - Bhawani, Tambirapani, Palar, Sarabanga, Thirumanimuthar and Vasista. The polluted rivers in Tamil Nadu are in 3 priority classes (Class- I, II and V).

Telangana - Godavari, Krishna, Manjeera, Musi, Nakkavagu, Sabari and Maner. These rivers are classified in three priority classes (Class – I, II and V).

Tripura - Gumti and Haora in priority Class – V.

Uttar Pradesh - Gomti, Hindon, Kalinadi, Ramganga, Rapti, Rihand, Sai, Saryu, Ganga, Yamuna and Kosi. These rivers are classified in four priority classes (Class – I, III, IV and V).

Uttarakhand - Suswa, Ganga, Dhela, Bhella and Kosi. The polluted rivers in Uttarakhand are in 2 priority classes (Class- I and V).

West Bengal - Barakar, Churni, Damodar, Dwarkeshwar, Dwarka, Ganga, Jalangi, Kalijani, Kansi, Karola, Mahananda, Mathabhanga, Mayurkashi, Rupnarayan, Silababti, Teesta and Vindhyadhari. These rivers are classified in priority class III, IV and V based on the level of BOD.

- Estimated polluted riverine length of all the priority classes putting together is 12,363 Km.

Annexure referred to in reply to part (d) of Starred Question No. *412 due for answer in Lok Sabha on 15.12.2016 regarding River Water/Basin Management.

The Central Pollution Control Board is implementing the provisions of Water Act, 1974 to restore water quality. The following steps are taken to prevent and control pollution.

- SPCBs have been directed under Section 18(1) b of the Water (Prevention & Control of Pollution) Act, 1974 to direct concerned agencies in the state/UT to develop infrastructure for sewage treatment.
- CPCB issued directions under Section 5 of EPA Act, 1986 regarding Treatment and Utilization of Sewage for Restoration of Water Quality of River to Metropolitan Cities & States/UT Capitals.
- With respect to industrial effluents, consent management for compliance of standards is being enforced by SPCBs/PCCs to improve the water quality of the rivers.
- With respect to industrial units in the country CPCB has given directions under Section 5 of E (P) Act, 1986 for setting up of online Continuous water quality monitoring system to check the effluent quality being discharged. Subsequently non complying units in failure of installation of online monitoring system have been identified for action.
- Common effluent treatment plants for cluster of Small Scale Industrial units have been established. Directions under Section 5 of the E (P) Act, 1986 is also given to all CETPs to install continuous effluent monitoring system to comply with the stipulated standards.

