

GOVERNMENT OF INDIA  
MINISTRY OF WATER RESOURCES,  
RIVER DEVELOPMENT AND GANGA REJUVENATION  
**LOK SABHA**  
**UNSTARRED QUESTION NO. 2070**  
ANSWERED ON 10.12.2015

**FMP, ERM OF CANALS AND RRR OF WATER BODIES**

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

- (a) the salient features of Flood Management Programme (FMP), Extension, Renovation and Modernisation (ERM) of canals and Repairing, Restoration and Renovation (RRR) of water bodies along with the specific areas covered thereunder;
- (b) the details of proposals/projects received from various States/UTs under each of the said programme during the current plan period along with action taken thereon including the quantum of funds released/utilised thereunder, programme/ State/UT-wise;
- (c) whether soil/sea/coastal erosion due to massive rainfall and heavy floods is also covered under the said programmes and special assistance is provided to the States facing recurrent threat of such incidence;
- (d) if so, details thereof along with the extent of soil/sea/coastal erosion caused on this count along with assistance provided to each affected State/UT during the said period; and
- (e) the concrete action plan chalked out by the Government in this regard along with the quantum of external assistance received/ utilised during the said period, if any, State/UT-wise?

**ANSWER**

THE MINISTER OF STATE FOR WATER RESOURCES, RIVER DEVELOPMENT AND GANGA REJUVENATION

(PROF. SANWAR LAL JAT)

- (a) The Salient Features of Flood Management Programme (FMP), Extension, Renovation and Modernisation (ERM) of canals and Repairing, Restoration and Renovation (RRR) of water bodies are given below:

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## 1. Flood Management Programme (FMP):

The Flood Management Programme (FMP) provides central assistance to State Governments for undertaking critical works related to river management, flood control, anti erosion, drainage development, flood proofing, restoration of damaged flood management works and anti-sea erosion. The funding pattern is 70:30 for Special Category States and 50:50 for General Category States.

The outlay for the XII Plan is Rs. 10,000 crore. The scope has been extended to cover catchment area treatment works with the objective of flood management.

## 2. Extension, Renovation and Modernization:

The Union Government has launched Accelerated Irrigation Benefit Programme (AIBP) in 1996-97 for providing financial assistance to expedite the implementation of ongoing major, medium as well as Extension, Renovation and Modernization (ERM) of Irrigation Projects. ERM Schemes primarily aim at restoring the lost potential in the water resources projects to ensure optimal use of water resources and coverage of additional command through the saving in water thus realized. Priority is accordingly given to the States which:

- have agreed to reform in water sector i.e. to implement Micro Irrigation in at least 10% of command area OR
- have enacted Participatory Irrigation Management legislation and active working of Water User Association to maintain the system and collecting water cess OR
- Where new potential is also envisaged along with restoration of lost potential, OR
- Where CAD works have been completed or taken up and likely to be completed as per stipulation of 'Parri-passu' implementation in accordance with the guidelines.

## 3. Restoration and Renovation (RRR) of water bodies during XII Plan:

(i) The scheme for Repair, Renovation & Restoration of Water Bodies for XII Plan was approved by the Union Government on 20.9.2013 and guidelines were issued in October, 2013. It is envisaged to provide central assistance for restoration of about 10,000 water bodies with an earmarked outlay of Rs. 6235 crore for the scheme. Out of 10000 water bodies, 9000 water bodies in rural areas and 1000 water bodies in urban areas are proposed to be covered. The proposal of water bodies where the Integrated Water Management Programme (IWMP) is implemented would be considered for inclusion under the scheme of RRR of water bodies. The central assistance is provided in the form of grant which is 90% of the project cost in special category states (NE states, Himachal Pradesh, J&K, Uttarakhand and undivided KBK districts of Odisha); 60% for projects lying in drought prone area, tribal area, desert prone area and left wing extremism affected areas and 25% of the project cost in case of non-special category states/areas.

(ii) The scheme has multiple objectives such as Comprehensive improvement and restoration of water bodies thereby increasing tank storage capacity, Ground Water Recharge, Increased availability of drinking water, Improvement in agriculture/horticulture productivity, Improvement of catchment areas of tank commands, Environmental benefits through improved water use efficiency; by promotion of conjunctive use of surface and ground water, Community participation and self-supporting system for sustainable management for each water body, Capacity Building of communities in better water management, Development of tourism, cultural activities, etc. to enhance water availability in different parts of the country.

The Empowered Committee of MoWR,RD&GR has approved 1342 water bodies at an estimated cost of Rs. 1013.428 crore of 9 states for inclusion under RRR till date. During XII Plan, a total grant amounting to Rs. 154.776 crore has been released to the states towards these schemes in addition to Rs 130.49 crore for completion of remaining ongoing water bodies of XI Plan.

(b) The status of projects received, techno-economically cleared, and included under above programmes and funds released during XII Plan is given in **Annex-1, 2, 3 and 4**.

(c) & (d) The scope of the approved FMP, *inter-alia*, includes river bank and river bed erosion and anti-sea erosion projects. The schemes for flood management and erosion control are formulated and implemented by concerned States as per their priorities. The Union Government supplements the efforts of State Governments by rendering technical advice, as well as financial assistance under the Flood Management Programme (FMP). Under FMP, the central assistance of Rs. 4500.72 Crore has been released to the States till date since XI Plan.

(e) As per study based on satellite data of 1989-91 and 2004-06 carried out by Space Application Centre (SAC) and Central Water Commission (CWC), an area of about 73.061 square kilometre has been lost to coastal in these years. The State-wise details are given in **Annex-5**.

As per discussions between Govt. of India and ADB, a loan amounting to 250 Million USD for Sustainable Coastal Protection and Management Investment Programme (SCP&MIP) was approved by ADB in Oct, 2010 for the States of Karnataka, Maharashtra and Goa.

Currently Sustainable Coastal Protection and Management Investment Programme (SCP&MIP)-Tranche-1 has been under taken in the States of Karnataka and Maharashtra having total estimated cost of US \$ 62.7 million including ADB loan of US \$ 51.555 million.

Technical Assistance (TA) programme has been signed by Government of India for Climate Resilient Coastal Protection and Management Project (CRCP&MP) at national level and in the two focal states of Karnataka and Maharashtra where the SCP&MIP are already operational under external assistance from Asian Development Bank (ADB). The above programme *inter-alia* envisages analyzing the climate change impacts including the aspects related to Sea Level rise into coastal areas, preparation of planning & designing criteria and guidelines for coastal climate change adaptation.

Details of proposals (under ERM) received during the current plan and action taken (External Assistance Projects) and Details of assistance released/utilised during the last three years (External Assistance Projects) is **Annex-6&7**.

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ANNEX REFERRED TO IN REPLY TO PART (b) OF UNSTARRED QUESTION NO.2070 TO BE ANSWERED IN LOK SABHA ON 10.12.2015 REGARDING “FMP, ERM OF CANALS AND RRR OF WATER BODIES”.

**State-wise Status of New Flood Management Projects Received in CWC and GFCC During XII Plan**

Amount in Rs. crore

SN	Name of State	Projects examined and Comments sent to State Govts.		Projects under Examination	
		Nos.	Estimated Cost	Nos.	Estimated Cost
<b>A</b>	<b>Projects in Ganga Basin States ( Examination by GFCC)</b>				
1	Bihar	2	118.24	14	5997.66
2	Chhatisgarh				
3	Haryana				
4	Himachal Pradesh				
5	Jharkhand	1	31.69	0	0
6	Madhya Pradesh				
7	NCT Delhi.				
8	Rajasthan				
9	Uttar Pradesh	15	477.82	7	420.95
10	Uttarakhand	1	75.82	23	620.46
11	West Bengal	7	28.51	2	1989.72
	<b>Sub-total</b>	<b>26</b>	<b>732.08</b>	<b>46</b>	<b>9028.79</b>
<b>B</b>	<b>Projects in Other States ( Examination by CWC)</b>				
1	Arunachal Pradesh	1	4.55	12	91.86
2	Assam	48	9182.23	12	697.16
3	Goa				
4	Gujarat				
5	Haryana				
6	Himachal Pradesh (other than Ganga )	1	48.83	1	62.46
7	Jammu & Kashmir	42	2662.91	18	2481.69
8	Karnataka	2	208.26		
9	Kerala	3	2728.86		
10	Manipur	1	627.23	5	1599.17
11	Meghalaya	4	189.94	2	347.49
12	Mizoram	4	45.44		
13	Nagaland	1	416.43	1	7.02
14	Orissa				
15	Punjab	3	461.87	1	133.95
16	Sikkim	1	95.38		
17	Tamil Nadu	4	7049.62		
18	Tripura				
19	Uttar Pradesh				
20	West Bengal ( North Bengal Portion)	3	114.40		
	<b>Sub-total</b>	<b>118</b>	<b>23835.95</b>	<b>52</b>	<b>5420.8</b>
	<b>Total</b>	<b>144</b>	<b>24568.03</b>	<b>98</b>	<b>14449.59</b>



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**CENTRAL ASSISTANCE RELEASED UNDER AIBFMP DURING 2012-13 to 2015-16 FOR ERM PROJECTS**

Sl. No.	Name of State/Project (Started in Plan)	Amount (Rs. in crore)				
		2012-13	2013-14	2014-15	2015-16	Grand Total
Major,Medium & Minor Irrigation Projects						
<u>CHHATTISGARH</u>						
1	Khuraung (ERM) Project	3.375	2.5940			5.97
2	Maniyari Tank Irr. Project(ERM) 2011-12		21.3255			21.33
	(Chattisgarh)-Total	3.375	23.9195			27.29
<u>JAMMU &amp; KASHMIR</u>						
3	Res.& Mod of Main Ravi Canal(ERM) 2011-12	12.707	6.6502			19.36
	(J&K)-Total	12.707	6.6502	0.0000		19.36
<u>KARNATAKA</u>						
4	Mod. Of Bhadra (PMP) (XI)	2.887				2.89
	Karnataka-Total	2.887	0.0000	0.0000		2.89
<u>ORISSA</u>						
5	Integrated Anandpur Barrage(KBK)	14.818				14.82
	(Orissa)-Total	14.818	0.0000	0.0000	0.0000	14.82
	<b>Grand Total</b>	<b>33.787</b>	<b>30.570</b>	<b>0.000</b>	<b>0.000</b>	<b>64.36</b>

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Details of Ongoing water bodies of XII Plan under the scheme of Repair, Renovation & Restoration (RRR) of Water Bodies													
S.No.	Name of State	No. of water bodies	Total project cost (Rs in crore)	Potential to be restored (th ha)	Committed Central Share (Rs in crore)	Fund Released			Committed centre share to be released (Rs in Cr)	Number of water bodies completed	No. of water bodies in progress	Potential restored (ha)	Fund Utilised (Rs in Cr)
						2014-15	2015-16	Total funds released (Rs. in crore)					
1	Odisha	760	361.520	46.110	282.73	52.900	0.000	52.900	229.830	38	722	7606.0	52.900
2	Meghalaya	9	11.430	1.096	10.29	2.520	0.000	2.520	7.770	0	9		
3	Madhya Pradesh*	134	198.308	33.305	93.01	37.700	0.000	37.700	55.310	0	125		
4	Uttar Pradesh (Phase-I)	8	37.080	1.096	29.54	0.000	15.361	15.361	14.179	0	8		
5	Manipur	4	65.442	1.047	58.9	10.370	0.000	10.370	48.530	0	4		
6	Uttarakhand	5	12.490	0.386	11.24	0.000	0.000	0.000	11.240	0	5		
7	Rajasthan	32	89.688	7.731	80.72	0.000	35.925	35.925	44.795	0	32		
8	Tamil Nadu (Phase-I)	105	54.683	2.458	49.21	0.000	0.000	0.000	49.210	0	105		
9	Telengana	182	125.454	6.255	112.02	0.000	0.000	0.000	112.019	0	182		
10	Uttar Pradesh (Phase-II)	54	33.906	6.556	30.52	0.000	0.000	0.000	30.515	0	54		
11	Tamil Nadu (Phase-II)	49	23.426	1.348	21.08	0.000	0.000	0.000	21.084	0	49		
	<b>Total</b>	<b>1342</b>	<b>1013.428</b>	<b>107.387</b>	<b>779.258</b>	<b>103.49</b>	<b>51.286</b>	<b>154.776</b>	<b>624.482</b>	<b>38</b>	<b>1295</b>	<b>7606.0</b>	<b>52.900</b>
	* Though Empowered Committee included 134 schemes of M.P. for funding under RRR Scheme, Govt of M.P. has sent proposal for release of Central Assistance wrt only 125 schemes. The cost hereby shown is for 125 schemes only. Cost of 125 schemes is Rs 183.24 crore.												





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S. No.	State/UT*	Area Under Accretion (Sq. Km)	Area Under Erosion (Sq. Km)	Net gain/loss (Sq. Km)
1	Gujarat, Daman & Diu *	43.45	27.28	16.17
2	Maharashtra	5.08	7.83	-2.75
3	Goa	1.53	0.771	0.759
4	Karnataka	6.26	5.16	1.1
5	Kerala	9.54	5.31	4.23
6	Tamil Nadu and Puducherry *	42.64	17.19	25.45
7	Andhra Pradesh	25.14	46.89	-21.75
8	Odisha	13.3	13.8	-0.5
9	West Bengal	1.52	11.63	-10.11
10	Lakshadweep Islands*	0.83	1.7	-0.87
11	Andaman Islands*	27.09	17.93	9.16
12	Nicobar Islands*	0.77	94.72	-93.95
	Total	177.15	250.211	-73.061

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Details of proposals (under ERM) received during the current plan and action taken (External Assistance Projects)

Sl. No.	Project	Category	Rivers/ Basin	District Benefited	Date of receipt	Benefits (Th.Ha)	Estt. Cost (Crore)	Status
1.	Karnataka Integrated and Sustainable Water Resources Management Investment Program- Tranch-I	Medium	Bhadra	Shivamogga	December, 2013	4.60	118.75	Approved by the Advisory Committee of MoWR,RD&GR in its 123 <sup>rd</sup> meeting held on 30.01.2014
2.	ERM of Tawa Irrigation Project	Major	Tawa/ Narmada	Hosangabad&Harda	December, 2012	281.51	1306.18	The project proposal could not be accepted by the Advisory Committee of MoWR,RD&GR on account of non furnishing the Environmental clearance by the State Govt.
3.	Karnataka Integrated and Sustainable Water Resources Management Investment Program- Tranch-II	Consist of ERM of 02 nos of Major projects namely Vijayanagara channels and Tungabhadra left bank canal system (for balance portion excluding already tackled work) along with associated soft components.	TungaBhadra	Bellary, Koppal and Raichur	DPRs submitted during January-February, 2014	371.536	3593.90	The project proposal could not be accepted by the Advisory Committee of MoWR,RD&GR on account of non furnishing the State Finance Concurrence by the State Govt.
4.	Andhara Pradesh Irrigation and Livelihood Improvement Project, Phase-II.	<ul style="list-style-type: none"> <li>After the bifurcation of Andhra Pradesh into Andhra Pradesh and Telangana States, both State Governments are revising and updating their proposals accordingly. Recently, Govt. of Andhra Pradesh submitted the revised Concept Note of the project which is under examination.</li> </ul>						

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Details of assistance released/utilised during the last three years (External Assistance Projects)

S L. N O	Name of Project	Funding Agency	Project particulars					Estimat ed cost (Rs. in Crores)	Performance in Foreign Assistance				
			Credi t no. OR Loan no.	Agen cy	Effective date Closing date	Total mont hs	Total area to be benefit ed '000 Ha		Total Bank assistan ce as per agreem ent  In Million	Cummu Reimburse ment ending Oct. 15  In Million	Reimburs ed w.r.t. total assistan ce %	Time elapsed	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Madhya Pradesh Water Sector Restructuring Project	World Bank	Ln.4750-IN	IBRD (USD)	30-11-2004 30-06-2015	127	495	2040.22	USD 387.40	USD 386.53	99.77	132	104.00
2	Maharashtra Water Sector Improvement Project	World Bank	Ln.4796-IN	IBRD (USD)	Closed								
3	Rajasthan Water Sector Restructuring Project	World Bank	Cr.3603-IN	IDA (XDR)	Closed								
4	Andhra Pradesh Water Sector Improvement Project	World Bank	Ln.7897-IN	IBRD (USD)	14-08-2010 28-07-2018	95	895		USD 450.60	USD 160.50	35.62	62	65.26
5	Uttar Pradesh Water Sector Restructuring Project, Phase-II	World Bank	Cr.5298-IN	IDA (XDR)	24-10-2013 31-10-2020	84			XDR 239.40	XDR 32.62	13.62	23	27.38
6	AP Irrigation and Livelihood Improvement Project	JICA (Japan International Cooperation Agency)	IDP 181	Japan (JPY)	30-03-2007 11-07-2016	112	132.41	1137.77	JPY 23974.00	JPY 12287.63	51.25	103	91.96
7	Orissa Integrated Irrigated Agriculture and Water Management Investment Program (OIIAWMI P)	ADB (Asian Development Bank)	2444-IND	ADB (USD)	25.02.2009 30.09.2015	79	61	471.43	16.50	15.57	94.36	80	101.26

