

Repair and rehabilitation work of various dams

907. SHRI C. M. RAMESH: Will the Minister of WATER RESOURCES, RIVER DEVELOPMENT AND GANGA REJUVENATION be pleased to state:

(a) whether Government has made any survey for repair and rehabilitation work of various dams across the country, if so, details of the amount earmarked for it during the last three years for the purpose; and

(b) the details of number of repair and rehabilitation work on various dams which have been completed and those which still remain completion?

THE MINISTER OF STATE IN THE MINISTRY OF WATER RESOURCES, RIVER DEVELOPMENT AND GANGA REJUVENATION (SHRI ARJUN RAM MEGHWAL): (a) and (b) Safety of dams including dam operation, rehabilitation and maintenance rests primarily with dam owners which are generally State Governments, Central and State power generating PSUs, Municipalities and private companies etc. In order to supplement the efforts of the State Governments, Ministry of Water Resources, River Development and Ganga Rejuvenation (MoWR, RD and GR) provides technical and financial assistance through various schemes and programmes such as Dam Rehabilitation and Improvement Programme (DRIP).

DRIP, a World Bank funded project was started in April, 2012 and scheduled to be completed in June, 2020 for the rehabilitation of about 198 dam projects from the point of view of safety across the seven States of India, namely Kerala, Madhya Pradesh, Odisha, Tamil Nadu, Karnataka, Jharkhand (Damodar Valley Corporation) and Uttarakhand (Uttarakhand Jal Vidyut Nigam Ltd.). Original budget outlay of the project was ₹ 2100 crores DRIP originally was a six year scheme with a scheduled closing date of 30th June, 2018. Government of India in September, 2018 approved the Revised Cost of DRIP for ₹ 3466 crores along with two years extension.

Each dam has certain number of work packages for rehabilitation of dams under DRIP viz Civil, Hydro-mechanical, Electrical, goods and services etc. As on date total number of work packages is 1072 for 198 dam projects. Out of these 586 work packages have been completed, 377 work packages are at different stages of execution and 109 work packages are at tendering stage.

Pending projects of Karnataka

908. SHRI G.C. CHANDRASHEKHAR: Will the Minister of WATER RESOURCES, RIVER DEVELOPMENT AND GANGA REJUVENATION be pleased to state:

(a) whether Government has received several requests from various States/

UTs especially Karnataka Government for grant of approval to the projects/schemes pertaining to various sectors viz. water resources, irrigation, desiltation, river cleaning, water conservation and management, dams capacity utilization etc. during the last three years;

(b) if so, the details thereof indicating name of projects/schemes sanctioned and pending for clearance;

(c) the details of ongoing projects/schemes and those pending for implementation/ completion pertaining to each of the said sectors; and

(d) whether some of the said projects/schemes have incurred time and cost overruns and if so, details thereof and corrective action taken thereon?

THE MINISTER OF STATE IN THE MINISTRY OF WATER RESOURCES, RIVER DEVELOPMENT AND GANGA REJUVENATION (SHRI ARJUN RAM MEGHWAL): (a) and (b) During the last three years, 129 project proposals have been received in CWC in respect of Major/Medium Irrigation (MMI) and Multipurpose projects from State Governments. Out of these proposals, 76 proposals have been considered and accepted by Advisory Committee of MoWR, RD and GR. Another 38 proposals are currently under appraisal, and 15 proposals have been sent back to the Project Authorities. State-wise details of the proposals, including proposals of Karnataka, are given in the Statement (*See below*).

(c) and (d) In order to supplement efforts of State Governments with their ongoing projects, Government of India provides technical and financial assistance through various schemes and programs. During 2016-17, 99 ongoing Major/Medium irrigation projects (including 5 in Karnataka) were prioritized for mission mode completion by December, 2019 under Pradhan Mantra Krishi Sinchayee Yojana (PMKSY)-Accelerated Irrigation Benefits Programme (AIBP) along with their Command Area Development and Water Management (CADWM) works. These projects targeted an ultimate irrigation potential of 76.03 lakh hectares at balance estimated cost of ₹ 77,595 crores (with Central Assistance of ₹ 31342.50 crores). AIBP works of 31 projects (including 2 in Karnataka) have been completed/almost completed.

Out of 99 prioritized projects, 86 projects (5 in Karnataka) have been included for CADWM intervention. As per included projects, it is targeted to develop 42.69 lakh hectare of Culturable Command Area (CCA), including 0.84 lakh hectares of CCA in Karnataka. Total estimated cost of CADWM works is ₹ 17799.565 crore (₹ 1020.04 crore in Karnataka) with total Central share ₹ 8176.303 crore (₹ 188.13 crore for Karnataka). Command area works have been completed in CCA of 12.26 lakh hectare (including 0.27 lakh hectare in Karnataka).

In addition to 99 prioritized projects, Central assistance to State Governments is also being given under schemes of River Management in Border Area (RMBA), Flood Management Program (FMP), Surface Minor Irrigation (SMI), and Repair, Renovation and Restoration (RRR) of water bodies. During last three years (from 2016-17), Central assistance given under these schemes are ₹ 159.25 crores (RMBA), ₹ 1178.68 crores (FMP, including merged component of RMBA in 2018-19), ₹ 1341.27 crores (SMI) and ₹ 101.74 crores (RRR).

Time and cost overrun in irrigation projects happens due to several reasons such as land acquisition, Resettlements and Rehabilitation, delay in statutory clearances, geological surprises during execution, litigations etc. Measures have been taken under 99 prioritized projects for time bound completion and to address cost escalation in below listed manner:—

- 20% cost escalation on latest approved estimated cost (AIBP component) of project as on March 2012 may be allowed for which, no separate clearance/ TAC clearance/Investment Clearance will be required for funding these projects.
- Fast Track Pro-forma Clearance from CWC may be sufficient for projects where revised cost may be more than the 20% over and above approved cost as on 01.04.2012 and no separate investment clearance from MOWR may be required.
- Entire cost escalation above 20% to be borne by the concerned State Government. The MoWR, RD and GR would facilitate this by arranging loan from NABARD.
- Extensive review of ongoing project is done at various levels including NITI Aayog to expedite the progress and address various bottlenecks.

Statement

State-wise details of the proposals, including proposals of Karnataka

(A) Projects Considered and Accepted by Advisory Committee of MoWR, RD and GR

Sl. No.	Project Name	Type of Project
1	2	3
Andhra Pradesh		
1.	Andhra Pradesh Irrigation and Livelihood Improvement Project Phase-II (APILIP-II)	Major Irrigation

1	2	3
2.	Protection of Villages Durgapur, Domgaon, Dababeel, Chotonilibari, Debargaon, Dangaigaon, Bhirengaon, Bherbheri, Rowmari, Khagrabari, Sanyashiguri, Uttar-Popragaon and Popragaon from the erosion of River Aie (R/B)	Flood Control
3.	Assam Integrated Flood and Erosion Risk Management Project-Tranche-II-Estimated Cost: ₹ 53.8195 crore	Flood Control
4.	Assam Integrated Flood and Riverbank Erosion Risk Management Project. (Kajiranga Sub-Project) (Aifrrmp) Golaghat District	Flood Control
5.	Assam Integrated Flood and Riverbank Erosion Risk Management Project, Palasbari Reach-Tranche-II (AIFRERMP)	Flood Control
6.	Assam Integrated Flood and River bank Erosion Risk Management Project for Gumi and its downstream area-Tranche-II (AIFRERMP)	Flood Control
7.	Protection of Kolbari and Lolity area from the erosion of river Brahmaputra (Construction of three Nos. of Spurs and a Check Dam)	Flood Protection
Bihar		
8.	Kosi-Mechi Intrastate Link Project	New, Major
9.	Rato River Flood Management Scheme	Flood Control
10.	Protection Work for Villagge Patter Tola to Kamala Kani near U/S Spur No.12	Flood Control
11.	Anti Erosion Work from Hardeotola to Khatti	Flood Control
12.	Construction of Earthen Bundh fro Ahraulidan (U.P.) Bundh to Guide Bundh of Bettiah-Gopalganj Bridge under flood control Division, Thakaraha Camp, District: Gopal Ganj (Bihar)	Flood Control
13.	Bateswarsthan Ganga Pump Canal Scheme, Phase-I	Major, RCE
14.	Project estimate of construction of ring bund for protection work of Sitabdiara village (Birth Place of Lok Nayak Jaiprakash Narayan)	Flood Protection
15.	Construction of anti-erosion works in between km 0.00 to km 7.30 of left bank of river Ganga near Mathar Diara (Munger Ghat to Tikarampur) in the districts of Begusarai, Khagaria and Munger (Bihar)	Flood Protection

1	2	3
16.	Construction of Embankment from Jahnwi chowk to Ismailpur on left bank of river Ganga in Bhagalpur District	Flood Protection
17.	Gap closure of B.K.G. Right Embankment from km. 69.24 to km. 74.63 & km. 86.3 to km. 87.37 with constuction of five nos. sluice between km. 69.24 to Km 90.53 with protection work at the junction of Right Embankment of Western Gangi River and B.K.G. Right Embankment	Flood Control
18.	Protection work of left edge of river Ganga from Kewala village to Bagmara village in a length of 5200 m	Flood Control
19.	Mahananda Flood Management Scheme Phase-II	Flood Control
20.	Anti-erosion work in between km 28.00 to 35.00 Km of P.P. Embankment and at Chandrapur Retire Line	Flood Control
21.	Raising and strengthening Jaaua Dilli Diwanganj Mahananda left embankment from km. 13.25 to km. 34.07 with turning platform at the interval of 3 km. with service road on the top	Flood Control
22.	Raising and strengthening of Nagarpara embankment between 0.00 km to 13.110 km and after raising and strengthening construction of service road on above length of the embankment	Flood Control
23.	Flood protection work of SML, ESML, Raising, Strengthening of Panchi Right embankment, Dagmara-Rajpur Embankment and km 15.00 to km 18.213 of WKE (Below Bharada)	Flood Control
Bihar and Jharkhand		
24.	North Koel Reservoir Project	Major, RCE
Chhattisgarh		
25.	Arpa Bhaisajhar Barrage Project	New Major
Gujarat		
26.	Sardar Sarovar Narmada Project	3rd RCE, Major
Himachal Pradesh		
27.	Revised Cost Estimate of Nadaun Area Medium Irrigation Project	Revised, Medium
28.	Sukhahar Medium Irrigation Project	Medium, ERM

1	2	3
29.	Medium Irrigation Project to various Panchayats of Jwalamukhi area of district Kangra	Medium, New
30.	Renukaji Dam Project	Multipurpose
31.	Flood protection/channelisation of Seer Khad from barchhawar to Jahu Bridge in Tehsil Sarkaghat	Flood Control
Jammu and Kashmir		
32.	Modernisation of ranbir canal project	Revised major, irrigation
33.	Revised Cost Estimate (RCE) of Tral Lift Irrigation Project	RCE, Medium Irrigation
34.	Ujh Multipurpose Project	Major, Multipurpose, National Project
Jharkhand		
35.	Burhai Reservoir Project	Major, new
36.	Kanhar Barrage Project	Major, New Irrigation
Karnataka		
37.	Sustainable Coastal Protection and Management Investment Programme (SCPMIP), Tranche-II	Coastal Protection
38.	Modernization of Vijayanagara Channels in Tungabhadra Project under Karnataka Integrated and Sustainable Water Resources Management Investment Program (KISWRMIP), Tranche-II	ERM Major Irrigation, Externally Assisted
Madhya Pradesh		
39.	Pawai Irrigation Project	New, Medium
40.	Chandrakeshar Dam Project	Major, ERM
Maharashtra		
41.	Jigaon Irrigation Project	New, Major
42.	Varkhede-Londhe Barrage Medium Project,	New, Medium
43.	Revised Cost Estimate of Upper Pravara (Nilwande-II) Project	RCE, Major irrigation
44.	Revised Cost Estimate (RCE) of Jigaon Irrigation Project	RCE, Major Irrigation

1	2	3
45.	Lower Tapi Project	Major Irrigation
46.	Jihe Kathapur Lift Irrigation Project	Major Irrigation
47.	Revised Cost Estimate (RCE) of Ghungshi Barrage Irrigation Project	RCE, Medium Irrigation
48.	Sulwade Jamphal Kanoli lift Irrigation Scheme	Major, New
49.	Damanganga-Pinjal Link Project	New, Drinking water
Puducherry		
50.	Flood protection works in Yanam.	Flood Control
Punjab		
51.	Project proposal for swan river flood management and integrated land development project starting from punjab boundry (d/s of santokhgarh bridge) to its confluence point with river sutlej at u/s thana bridge near sri anandpur sahib including d/s flood protection works in district roopnagar	Flood Control
52.	Project estimate for rehabilitation, renovation and modernization of various distributaries systems along with allied works in Punjab (UBDC)	Major Irrigation, ERM
53.	Revised Cost Estimate (RCE) of Shahpur Kandi Dam Project	RCE, Multipurpose, National Project
Rajasthan		
54.	Rajasthan Water Sector Restructuring Project For Desert Area (RWSRPD)	Major, ERM
55.	Rajasthan Water Sector Livelihood Improvement Project (RWSLIP)	4 Major, 42 Medium and 92 Minor,
56.	Parwan Major Multi-Purpose Irrigation Project	New, Major, Irrigation
Tamil Nadu		
57.	Grand Anicut Canal System	Major, ERM
Telangana		
58.	Indiramma Flood Flow Canal Project	Revised-Major
59.	Kaleshwaram Project	New, Major Irrigation

1	2	3
60.	Modernization of Nizamsagar Project-Main Canal and Distributory system including repairs to CM and CD works.	Major, ERM, Irrigation
Uttar Pradesh		
61.	Scheme for protection of Haha Nala Bund, Chainpur Gulaura pump canal and Shiv Mandir at village Chainpur Gulaura between 0.800 km. to 2.400 km. of Haha Nala bund, Protection of village group Sangapur, Gorauli, Kakarghatta between 39.800 km. to 41.600 km. of Turtipar-Shrinagar bund and protection of Bakulaha Sansar Tola bund and village group of Ibrahimabad Naubrar between 4.800 km. to 5.175 of B.S.T. bund on right bank of river Ghaghra in district Ballia of Uttar Pradesh	Flood Control
62.	Scheme for construction of Bairiya Sarya Bund on right bank of River-Rapti in the district-Gorakhpur of Uttar Pradesh.	Flood Control
63.	Scheme for construction of Embankment from village Joulpur to Patwayee (From 0.000 km. to 28.500 km.) on left Bank of River Kosi in Rampur district, Uttar Pradesh.	Flood Control
64.	Arjun Sahayak Pariyojna	Major, Revised
65.	Scheme for protection of Gaura-Saifabad embankment between km. 3.00 to 4.40 on left bank of River-Ghaghra in district-Basti	Flood Control
66.	Scheme for construction of 7 nos. Spurs at km. 12.500, 13.200, 14.200, 15.100, 15.750, 16.200 and 16.600 of Kalwari-Rampur Bund on left bank of river Ghaghra in the district-Basti, U.P.	Flood Control
67.	Ken Betwa Link Project (Phase-I)	New, Major
68.	Bhaunrat Dam Project	New, Medium
69.	Project for Providing Irrigation Facilities to 15 Villages of Babina Block	New, Medium
70.	Scheme for raising and strengthening of kharagpur shahpur sopai bund on left of river-ghaghra and right bank of river kuwano in district-Gorakhpur	Flood Control

1	2	3
71.	Project estimate for consideration of pumping station for drainage of flood water from protected side near tarkulani regulator at km. 30.300 Of maluni bund on left bank of river Rapti in Distt. Gorakhpur	Flood Control
72.	Project estimate of construction of ring bund for protection work of Sitabdiara village (Birth Place of lok Nayak Jaiprakash Narayan) and village group of Ibrahimabad-Naubrar in district Ballia	Flood Protection
73.	Counstruction of Marginal Bund on Left Bank of River Ganga from Jajmau Bridge to Shuklaganj old bridge from km. 0.000 to km. 5.000	Flood Protection
74.	Project for flood protection work at km. 9.00 to km 15.00 of damaged Elgin Bridge-Charsari bund on the left bank of river Ghaghara in Distt. Gonda (U.P.)	Flood Protection
75.	Revised estimate for the project construction of pumping station for drainage of flood water from protected side near Tarkulani regulator at km. 30.00 of Maluni Bund on Left bank of river Rapti in Distt. Gorakhpur	Flood Protection

West Bengal

76.	Phase-I works of Ghatal Master Plan in Paschim Medinipur and Purba Medinipur districts	Flood Control
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(B) Projects currently under Appraisal in CWC

Sl. No.	Name of State	Name of Projects	Type of Project
1	2	3	4
1.	Andhra Pradesh	BRR Vamsadhara Project Phase-II, Stage-II	Major
2.		Polavaram Project	Major, NP
3.	Arunachal Pradesh	Noa-Dihing Dam Project	Major, NP
4.	Assam	ERM of Shukla Irrigation Project (PFR)	Major
5.		Kulsi Dam Project	Major, NP
6.		Puthimari Irrigation Scheme	Medium
7.	Bihar	Baksoti Barrage Project	Major

1	2	3	4
8.	Gujarat/ Maharashtra Link	Par-Tapi-Narmada Link Project	Major
9.	Haryana	Hathnikund Project	Major
10.	Himachal Pradesh	Renukaji Dam Project	Major, NP
11.	Jammu and Kashmir	Bursar HE Project	Major, NP
12.	Karnataka	Upper Bhadra Project	Major
13.		Shiggaon Lift Irrigation Scheme	Major
14.		Mekedatu Balancing Reservoir cum Drinking Water Project	Multipurpose
15.		Modernisation of Vijayanagara Channels in Tungabhadra Project under Karnataka Integrated and Sustainable Water Resources Management Investment Program (KISWRMIP), Tranche-2	Major, EA**
16.	Madhya Pradesh	Bina Complex Irrigation and Multipurpose Project	Major
17.	Maharashtra	Gunjawani Project	Major
18.		7 Pneumatically Operated Gated Weir, District Jalgon (MTBO)	Medium
19.		Prakasha-Buraill, District Nandurbar Scheme (MTBO)	Medium
20.	Madhya Pradesh and Uttar Pradesh	Ken-Betwa Link Project	Major, NP
21.	Odisha	Nabarangpur Irrigation Project	Major
22.		2nd RCE of Lower Suktel Irrigation Project	Major
23.		Khadaga Barrage Project	Major
24.		Tel Integrated Multipurpose Project	Major
25.		Middle Kolab Multipurpose Project	Major
26.		Lower Vamsadhara (Stage-I) Project	Major
27.		Upper Vamsadhara	Medium
28.		Katangi Irrigation Project	Medium

1	2	3	4
29.		Upper Udanti Irrigation Project	Medium
30.	Punjab	2nd Ravi Vyas Link Project	Major, NP
31.	Rajasthan	Eastern Rajasthan Canal Project	Major
32.		Kalisindh Major Multipurpose Project Phase-II	Major
33.		ERM of IGNP Stage-II and KSL Strage-I	Major
34.	Telangana	Sita Rama Lift Irrigation Project	Major
35.	Uttar Pradesh	Badaun Lift Irrigation Project	Major
36.	Uttarakhand	RCE of Jamrani Dam Multipurpose Project	Major
37.		Lakhwar Multipurpose Project	Major, NP*
38.		Kishau Multipurpose Project	Major, NP

* NP= National Project; **EA= Externally Assisted

(C) Projects Sent Back by CWC to Project Authorities

Sl.No.	State	Name of Project	Type of Project
1.	Andhra Pradesh	Chintalpudi Lift Irrigation Scheme	Major
2.	Gujarat	Kakrapar-Gordha-Vad Link Project	Major
3.	Jharkhand	Rarhu Reservoir Project	Medium
4.	Karnataka	Singatalur Lift Irrigation Scheme	Major
5.	Kerela	ERM of Chitturpuzha Irrigation Project	Medium
6.	Madhya Pradesh	Barna Project	Major
7.		ERM of Sanjay Sarovar Project	Major
8.		Semri Medium Project	Medium
9.		Chinki Major Irrigation Project	Major
10.		Sher Macchrewa Shakkar Multipurpose Project	Major
11.		RCE of Lower GOI Project	Major
12.		Mohanpura Major Multipurpose Project	Major
13.		Pancham Nagar Medium Irrigation Project	Medium
14.	Uttar Pradesh	Umarhat Pump Canal Project	Major
15.	West Bengal	Dwarkeswar Gandheswari Reservoir Project	Major