



GOVERNMENT OF INDIA

MINISTRY OF WATER RESOURCES, RIVER DEVELOPMENT AND GANGA REJUVENATION

OUTPUT-OUTCOME MONITORING FRAMEWORK DOCUMENT: 2017-18

DEMAND NO. 98

**MINISTRY OF WATER RESOURCES, RIVER DEVELOPMENT AND GANGA
REJUVENATION**

Output-Outcome Framework for Schemes 2017-18
Demand no. 98: Ministry of Water Resources, River Development and Ganga Rejuvenation
(Rupees in crore)

Sl. No.	Name of Scheme / Sub-scheme	Financial Outlay 2017-18 (BE)	Output/ Deliverables against the outlay 2017-18	Projected Medium Term Outcomes
Centrally Sponsored Schemes				
1	Pradhan Mantri Krishi Sinchayee Yojana (PMKSY) - Accelerated Irrigation Benefits Programme	5000.00* *Through NABARD funding.	Completion of 31 major/medium irrigation projects	Utilization of 12.95 lakh ha of irrigation potential resulting in increase in yield of crops & income of farmers; replenishment of ground water and increased water availability for other uses.
2	PMKSY – Har Khet Ko Pani	1450.00 4020.00* *Through NABARD funding.	<ul style="list-style-type: none">Completion of Command Area and water management works for utilization of irrigation potential over 20 lakh haSurface minor irrigation potential Creation - 0.40 lakh ha.Creation of irrigation potential covering 0.30 lakh ha. by completing the Repair, Renovation and Restoration of Water Bodies.Creation of irrigation potential covering 0.50 lakh ha using groundwater	CAD works & AIBP works are proposed to be carried out <i>pari passu</i> . Thus increase in area under assured irrigation resulting in increase in :- (i) Crop yield (ii) Farmers’ income (iii) Ground water availability (iv) Water availability for other uses. (v) Water Use Efficiency
3	Flood Management Programme	150.00	Execution of river management works in critical areas, Anti-erosion works, drainage development works and anti-sea erosion works.	Reduction in damage due to floods, river bank erosion, coastal erosion and sediment erosion in selected river catchments.
	Sub-Total CSS	1600.00 + 9020.00 from NABARD loan.		
Central Sector Schemes				
4	River Management Activities and works related to Border Areas	199.96	<ul style="list-style-type: none">(i) Preparation of Joint Detailed Project Reports (DPR) by PDA & undertaking pre-construction works for Pancheswar(ii) Multipurpose Project. Preparation of DPR by JPO for Sapta Kosi High dam including Sunkosi diversion cum storage scheme & Kamla dam project.(iii) Continuation of hydrological observations & transmissions of flood & related data from neighboring countries.(iv) Development works on common/border rivers.(v) Anti-erosion and anti sea erosion works of UTs.(vi) Maintenance of flood protection works of Kosi and Gandak Projects (in Nepal).	<ul style="list-style-type: none">Mitigation of recurring floodsAssessment of water resources potential in international riversBetter flood forecastingThe DPR for Pancheswar Multi purpose project would help in drawing programme for implementation of the project & preconstruction works.

5	Irrigation Census	25.00	<ul style="list-style-type: none"> One National Level Report of 5th Minor Irrigation Census covering 33 States/UTs Preparatory work on 6th MI Census- identification of new items of data collection, drafting schedules, comments from States, funding pattern etc. 	Informed planning and policy formulation in the minor irrigation sector.
6	Polavaram Multi-purpose Project	# (to be decided later through NABARD funding)	Construction of: Dam =40% Right Bank Canal=85% Left Bank Canal=75%.	Creation of ultimate irrigation potential of 2,91,000 ha, Drinking water supply to a population of 28.50 lakh in 540 villages, Diversion of 80 TMC of water to Krishna river basin.
7	Farakka Barrage Project	155.00	Operation & Maintenance of Farakka Barrage and its associated structures	Improved navigability in the Bhagirathi Hooghly river system. Compliance of the Ganga Water Treaty, 1996
8	Dam rehabilitation and Improvement Programme	160.00	<ul style="list-style-type: none"> Overall coordination and supervision of dam safety rehabilitation works Capacity building in dam safety areas. Development of remaining modules of dam safety software DHARMA. Six National training programs on dam safety; 3 International training programs Finalization of 4 guidelines on various areas of dam safety. Third party construction supervision of the ongoing DRIP Works. 	<ul style="list-style-type: none"> Improve the safety and performance of selected existing dams and associated appurtenances in a sustainable manner. Capacity building of Water Resources officials Standardization of dam safety procedures and guidelines
9	Ghat Works for Beautification of river fronts	50.00	Development and Beautification of river fronts in identified areas.	Aesthetic improvement of river fronts and higher satisfaction of visitors
10	National River Conservation Plan	2500.00	<ul style="list-style-type: none"> Construction of 16 new Sewage Treatment Plants (STPs) with 416.3 MLD treatment capacity. Rehabilitation of STPs to restore 386 MLD treatment capacity Construction of 155 of Ghats and 49 crematoria 	<ul style="list-style-type: none"> Aviral Dhara and Nirmal Dhara in the river Ganga. Reduced river pollution levels
11	National Ganga Plan			
12	Implementation of National Water Mission	15.00	<ul style="list-style-type: none"> Preparation of State Specific Action Plans for 24 States Establishing National Bureau of Water Use Efficiency (NBWUE) 	(i) Increase in water use efficiency & establishing NBWUE. (ii) Sustainable management of water resources.
13	Investigation of Water Resources Development Schemes – National Water Development Agency	199.99	Works relating to preparation of Detailed Project Report/ Feasibility Report / Pre-feasibility Report / Preparation of water balance studies report in respect of 8 inter linking of river projects and 4 intra-linking of rivers. Works related to Ken-Betwa link in advanced stage.	Completion of interlinking of river projects facilitates transfer of water from water surplus to water deficit areas.
14	Investigation of Water Resources		Investigation for preparation of DPRs	Generation of power from

	Development Schemes – Central Water Commission		for 4 hydroelectric (HE) power projects in North Eastern States and completion of 1 DPR for Bursar HE project.	hydel resources after effective implementation of projects covered under DPRs.
15	Brahmaputra Board		<ul style="list-style-type: none"> • Execution of 6 flood and anti-erosion works • Execution of 6 ongoing and 4 new drainage development projects • Preparation of 2 new and updating 6 old river basin master plans 	<ul style="list-style-type: none"> • Protection of Majuli Island and other areas from Flood and erosion. • 26.01 sq km will be benefitted and 43.30 sq km area to be made free from drainage congestion • Reclamation of 38.10 sq km of agricultural land
16	Flood Forecasting	65.00	Providing flood forecasts from 275 existing flood forecasting stations and 843 base stations.	<ul style="list-style-type: none"> • Timely dissemination of flood forecasts • Reduction in flood incidence and resultant damage
17	Development of Water Resources Information System	145.00	<ul style="list-style-type: none"> • Continuation of Hydrological observation & data collection at 878 old sites + 800 new sites and Opening of 135 new HO sites • Installation of telemetry system in 40 reservoirs 	<ul style="list-style-type: none"> • Monitoring live storage in 120 reservoirs • To create a reliable and sound database for informed planning and policy formulation
18	Ground Water Management and Regulation	500.00	Preparation of Aquifer Management Plan- 4.04 Lakh Sqkm Ground Water level and quality Surveillance through 25584 wells	<ul style="list-style-type: none"> • Sustainable ground water resource management in the country. • To arrest declining water levels through implementation of Artificial Recharge Plan. • Better awareness on ground water resource usage
19	National Hydrology Project	300.00	Establishment of National Water informatics Centre Procurement and installation of Hydro met equipment River Basin Assessment and Planning for 3 basins	<p>(i) Improved Water resources management in the country through:</p> <ul style="list-style-type: none"> • Improved flood forecasting • Improved water resources assessment and planning <p>(ii) Improved collection, collation, storage and dissemination of Hydro met and spatial data in the country.</p>
20	Research and Development in Water Resources	40.00	Publication of 200 technical reports, 240 research papers and 34 workshops/ trainings	<ul style="list-style-type: none"> • Increase in number of research papers in reputed journals • Awareness generation on water conservation
21	Irrigation Management Programme	0.01	Incentivisation to State Govt. for undertaking water sector reforms	Water sector reforms for better usage of water resource

22	Human Resources Development and Capacity Building in NERIWALM, National Water Academy, RGI- Groundwater, MoWR and IEC	25.00	<ul style="list-style-type: none"> • 511 training programmes. • IEC- Multi-media campaigns and • 15 workshops and 3 seminars, • Sponsored programmes and outdoor publicity. • Training about 200 officials. 	Capacity building on surface and groundwater management; Awareness generation on water conservation
23	Infrastructure Development	45.00	<ul style="list-style-type: none"> • Central Water Commission- Acquisition of land for hutments, construction of office cum residential buildings at 6 different places and headquarters • Central Ground Water Board- Construction of 8 no's of offices at different levels. 	Better working environment in the offices.
	Sub-Total Central Sector Schemes	4424.96		
	Total (CSS & CS)	6024.96		
