

MINISTRY OF WATER RESOURCES, RIVER DEVELOPMENT AND GANGA REJUVENATION

DEMAND NO. 97

Ministry of Water Resources, River Development and Ganga Rejuvenation*(In ₹ crores)*

	Actual 2016-2017			Budget 2017-2018			Revised 2017-2018			Budget 2018-2019			
	Revenue	Capital	Total	Revenue	Capital	Total	Revenue	Capital	Total	Revenue	Capital	Total	
Gross	6299.69	127.62	6427.31	8406.99	803.29	9210.28	9554.05	407.10	9961.15	8189.51	730.88	8920.39	
Recoveries	-1702.27	-10.91	-1713.18	-2304.48	-18.80	-2323.28	-2282.15	-19.00	-2301.15	-37.37	-23.02	-60.39	
Receipts	...	...	...	...	...	...	...	...	...	...	...	...
Net	4597.42	116.71	4714.13	6102.51	784.49	6887.00	7271.90	388.10	7660.00	8152.14	707.86	8860.00	
A. The Budget allocations, net of recoveries, are given below:													
CENTRE'S EXPENDITURE													
Establishment Expenditure of the Centre													
1. <i>Secretariat</i>													
1.01	Secretariat	61.02	...	61.02	73.00	...	73.00	83.00	...	83.00	95.00	...	95.00
1.02	Recoveries of Over Payment	-0.06	...	-0.06
	<i>Net</i>	60.96	...	60.96	73.00	...	73.00	83.00	...	83.00	95.00	...	95.00
Attached, Subordinate and Other Offices													
2. <i>Central Water Commission</i>													
2.01	Central Water Commission	308.81	0.46	309.27	441.97	2.03	444.00	425.11	2.06	427.17	450.87	2.62	453.49
2.02	Recoveries	-10.00	...	-10.00	-5.68	...	-5.68	-10.00	...	-10.00
	<i>Net</i>	308.81	0.46	309.27	431.97	2.03	434.00	419.43	2.06	421.49	440.87	2.62	443.49
3. <i>Central Water and Power Research Station</i>													
3.01	Central Water and Power Research Station	67.84	0.09	67.93	73.60	0.50	74.10	72.93	0.30	73.23	93.80	0.30	94.10
3.02	Recoveries	-12.74	...	-12.74	-9.10	...	-9.10	-13.10	...	-13.10	-13.10	...	-13.10
	<i>Net</i>	55.10	0.09	55.19	64.50	0.50	65.00	59.83	0.30	60.13	80.70	0.30	81.00
4. Central Soil and Material Research Station													
5. Sardar Sarovar Construction Advisory Committee													
6. Bansagar Control Board													
7. <i>Upper Yamuna River Board</i>													
7.01	Upper Yamuna River Board	5.56	...	5.56	23.00	3.80	26.80	1.26	4.00	5.26	2.48	8.02	10.50
7.02	Recoveries	-2.45	...	-2.45	-20.00	-3.80	-23.80	...	-4.00	-4.00	-0.02	-8.02	-8.04
	<i>Net</i>	3.11	...	3.11	3.00	...	3.00	1.26	...	1.26	2.46	...	2.46
8. Central Ground Water Board													
176.52													

(In ₹ crores)

	Actual 2016-2017			Budget 2017-2018			Revised 2017-2018			Budget 2018-2019		
	Revenue	Capital	Total	Revenue	Capital	Total	Revenue	Capital	Total	Revenue	Capital	Total
9. National Institute of Hydrology	19.00	...	19.00	23.75	...	23.75	23.75	...	23.75	26.50	...	26.50
Total-Attached, Subordinate and Other Offices	577.29	0.69	577.98	779.87	3.13	783.00	730.30	2.81	733.11	811.05	4.09	815.14
Total-Establishment Expenditure of the Centre	638.25	0.69	638.94	852.87	3.13	856.00	813.30	2.81	816.11	906.05	4.09	910.14
Central Sector Schemes/Projects												
10. National River Conservation Programme												
10.01 EAP Component	87.10	...	87.10	130.00	...	130.00	627.00	...	627.00	600.00	...	600.00
10.02 Programme Component	80.40	...	80.40	120.00	...	120.00	96.42	...	96.42	170.00	...	170.00
10.03 Less Amount met from National Clean Energy Fund (NCEF)	-167.50	...	-167.50	...	...	...	...	...	...	...	...	...
<i>Net</i>	...	...	...	250.00	...	250.00	723.42	...	723.42	770.00	...	770.00
Major Irrigation Projects												
11. Polavaram Multipurpose Project	100.00	...	100.00	...	...	...	...	...	...	...	...	...
12. Farakka Barrage Project												
12.01 Farakka Barrage Project	72.51	45.48	117.99	122.13	48.25	170.38	80.45	68.25	148.70	126.06	83.19	209.25
12.02 Recoveries	...	-10.91	-10.91	-15.38	...	-15.38	-13.37	...	-13.37	-14.25	...	-14.25
<i>Net</i>	72.51	34.57	107.08	106.75	48.25	155.00	67.08	68.25	135.33	111.81	83.19	195.00
13. Emergent Flood Protection Works in Eastern and Western Sectors	...	...	...	...	3.00	3.00	...	0.01	0.01	...	0.01	0.01
14. Dam Rehabilitation and Improvement Programme												
14.01 EAP Component	27.34	6.44	33.78	42.32	107.08	149.40	42.96	41.24	84.20	42.32	71.08	113.40
14.02 Programme Component	6.06	...	6.06	10.58	0.02	10.60	10.74	0.06	10.80	10.58	0.02	10.60
<i>Total- Dam Rehabilitation and Improvement Programme</i>	33.40	6.44	39.84	52.90	107.10	160.00	53.70	41.30	95.00	52.90	71.10	124.00
Total-Major Irrigation Projects	205.91	41.01	246.92	159.65	158.35	318.00	120.78	109.56	230.34	164.71	154.30	319.01
Namami Gange												
15. National Ganga Plan and Ghat Works												
15.01 National Ganga Plan	1440.50	...	1440.50	2250.00	...	2250.00	2250.00	...	2250.00	2250.00	...	2250.00
15.02 Ghat Works for Beautification of River Front	67.00	...	67.00	50.00	...	50.00	50.00	...	50.00	50.00	...	50.00
15.03 Transfer to National Clean Energy Fund (NCEF)	1675.00	...	1675.00	2250.00	...	2250.00	2250.00	...	2250.00	...	...	...
15.04 Less-Amount met from National Clean Energy Fund (NCEF)	-1507.50	...	-1507.50	-2250.00	...	-2250.00	-2250.00	...	-2250.00	...	...	...
<i>Net</i>	1675.00	...	1675.00	2300.00	...	2300.00	2300.00	...	2300.00	2300.00	...	2300.00
River Basin Management												
16. National Water Mission	4.04	0.41	4.45	13.50	1.50	15.00	4.50	0.50	5.00	...	...	...
17. River Basin Management	175.37	0.13	175.50	199.08	0.91	199.99	199.32	0.67	199.99	223.45	1.55	225.00
18. Flood Forecasting	35.81	3.55	39.36	50.25	14.75	65.00	37.80	7.20	45.00	...	...	...
19. Interlinking of Rivers	...	...	...	1.00	...	1.00	1.00	...	1.00	1.00	...	1.00
Total-River Basin Management	215.22	4.09	219.31	263.83	17.16	280.99	242.62	8.37	250.99	224.45	1.55	226.00

(In ₹ crores)

	Actual 2016-2017			Budget 2017-2018			Revised 2017-2018			Budget 2018-2019		
	Revenue	Capital	Total	Revenue	Capital	Total	Revenue	Capital	Total	Revenue	Capital	Total
Water Resources Management												
20. Development of Water Resources Information System	58.37	11.71	70.08	116.52	28.48	145.00	62.00	8.00	70.00	155.66	55.61	211.27
21. <i>Ground Water Management and Regulation</i>												
21.01 Ground Water Management and Regulation	81.36	42.91	124.27	75.50	439.50	515.00	75.50	214.50	290.00	84.29	380.71	465.00
21.02 Recoveries	-12.02	...	-12.02	...	-15.00	-15.00	...	-15.00	-15.00	...	-15.00	-15.00
Net	69.34	42.91	112.25	75.50	424.50	500.00	75.50	199.50	275.00	84.29	365.71	450.00
22. <i>National Hydrology Project</i>												
22.01 EAP Component	23.79	...	23.79	92.00	51.00	143.00	85.89	1.12	87.01	103.48	11.52	115.00
22.02 Programme Component	27.98	...	27.98	104.58	52.42	157.00	96.87	1.12	97.99	123.48	11.52	135.00
Total- National Hydrology Project	51.77	...	51.77	196.58	103.42	300.00	182.76	2.24	185.00	226.96	23.04	250.00
23. Research and Development and Implementation of National Water Mission	29.72	4.64	34.36	34.50	5.50	40.00	51.15	8.85	60.00	82.00	13.00	95.00
24. Irrigation Management Programme	...	...	...	0.01	...	0.01	...	...	...	...	...	...
25. HRD/Capacity Building Programme	20.78	0.16	20.94	24.00	1.00	25.00	28.00	1.00	29.00	58.70	4.07	62.77
26. Infrastructure Development	1.61	10.94	12.55	3.60	41.40	45.00	3.60	46.40	50.00	2.90	84.86	87.76
Total-Water Resources Management	231.59	70.36	301.95	450.71	604.30	1055.01	403.01	265.99	669.00	610.51	546.29	1156.80
Total-Central Sector Schemes/Projects	2327.72	115.46	2443.18	3424.19	779.81	4204.00	3789.83	383.92	4173.75	4069.67	702.14	4771.81
TRANSFERS TO STATES/UTs												
Centrally Sponsored Schemes												
Pradhan Mantri Krishi Sinchai Yojna												
27. Accelerated Irrigation Benefit Program	999.86	...	999.86	...	...	...	...	...	...	...	...	...
28. Har Khet Ko Pani	439.80	...	439.80	1450.00	...	1450.00	1888.00	...	1888.00	2600.00	...	2600.00
29. Impact Assessment Studies	0.07	...	0.07	1.00	...	1.00	1.00	...	1.00	1.00	...	1.00
30. Assistance for Sutlej Yamuna Link Canal Project	...	...	...	1.00	...	1.00	0.01	...	0.01	0.01	...	0.01
31. Flood Management Programme	149.99	...	149.99	150.00	...	150.00	562.68	...	562.68	...	...	...
32. River Management Activities and Works Related to Border Areas	24.79	0.56	25.35	198.41	1.55	199.96	201.59	1.37	202.96	...	...	...
33. Flood Management and Border Areas Programme(FMBAP)	...	...	...	...	...	...	...	...	...	525.37	1.63	527.00
34. Irrigation Census	16.94	...	16.94	25.00	...	25.00	15.45	...	15.45	50.00	...	50.00
35. <i>Atal Bhujal Yojna</i>												
35.01 EAP Component	...	...	...	0.02	...	0.02	0.02	...	0.02	0.02	...	0.02
35.02 Programme Component	...	...	...	0.02	...	0.02	0.02	...	0.02	0.02	...	0.02
Total- Atal Bhujal Yojna	...	...	...	0.04	...	0.04	0.04	...	0.04	0.04	...	0.04
Total-Pradhan Mantri Krishi Sinchai Yojna	1631.45	0.56	1632.01	1825.45	1.55	1827.00	2668.77	1.37	2670.14	3176.42	1.63	3178.05
Total-Centrally Sponsored Schemes	1631.45	0.56	1632.01	1825.45	1.55	1827.00	2668.77	1.37	2670.14	3176.42	1.63	3178.05

(In ₹ crores)

	Actual 2016-2017			Budget 2017-2018			Revised 2017-2018			Budget 2018-2019		
	Revenue	Capital	Total	Revenue	Capital	Total	Revenue	Capital	Total	Revenue	Capital	Total
Grand Total	4597.42	116.71	4714.13	6102.51	784.49	6887.00	7271.90	388.10	7660.00	8152.14	707.86	8860.00
B. Developmental Heads												
Economic Services												
1. Major Irrigation	100.00	...	100.00	...	...	...	...	...	...	...	...	...
2. Major and Medium Irrigation	621.94	...	621.94	1918.60	...	1918.60	1996.91	...	1996.91	3353.53	...	3353.53
3. Minor Irrigation	250.92	...	250.92	317.42	...	317.42	287.30	...	287.30	330.79	...	330.79
4. Flood Control and Drainage	229.30	...	229.30	266.17	...	266.17	208.43	...	208.43	196.86	...	196.86
5. New and Renewable Energy	1675.00	...	1675.00	2250.00	...	2250.00	2250.00	...	2250.00	...	...	...
6. Other Transport Services	72.51	...	72.51	106.75	...	106.75	67.08	...	67.08	111.81	...	111.81
7. Ecology and Environment	...	...	...	297.00	...	297.00	773.42	...	773.42	3070.00	...	3070.00
8. Secretariat-Economic Services	60.96	...	60.96	73.00	...	73.00	83.00	...	83.00	95.00	...	95.00
9. Capital Outlay on Major and Medium Irrigation	...	24.50	24.50	...	250.84	250.84	...	65.32	65.32	...	165.64	165.64
10. Capital Outlay on Minor Irrigation	...	47.81	47.81	...	445.10	445.10	...	220.10	220.10	...	407.93	407.93
11. Capital Outlay on Flood Control Projects	...	9.83	9.83	...	34.00	34.00	...	31.22	31.22	...	44.86	44.86
12. Capital Outlay on Other Transport Services	...	34.57	34.57	...	48.25	48.25	...	68.25	68.25	...	83.19	83.19
Total-Economic Services	3010.63	116.71	3127.34	5228.94	778.19	6007.13	5666.14	384.89	6051.03	7157.99	701.62	7859.61
Others												
13. North Eastern Areas	...	...	...	147.25	...	147.25	153.34	...	153.34	334.70	...	334.70
14. Grants-in-aid to State Governments	1586.72	...	1586.72	704.82	...	704.82	1432.32	...	1432.32	639.25	...	639.25
15. Grants-in-aid to Union Territory Governments	0.07	...	0.07	21.50	...	21.50	20.10	...	20.10	20.20	...	20.20
16. Capital Outlay on North Eastern Areas	...	...	...	...	3.30	3.30	...	3.20	3.20	...	6.23	6.23
17. Loans and Advances to State Governments	...	...	...	...	3.00	3.00	...	0.01	0.01	...	0.01	0.01
Total-Others	1586.79	...	1586.79	873.57	6.30	879.87	1605.76	3.21	1608.97	994.15	6.24	1000.39
Grand Total	4597.42	116.71	4714.13	6102.51	784.49	6887.00	7271.90	388.10	7660.00	8152.14	707.86	8860.00

	Budget Support	IEBR	Total	Budget Support	IEBR	Total	Budget Support	IEBR	Total	Budget Support	IEBR	Total
C. Investment in Public Enterprises												
1. NABARD	...	2187.00	2187.00	...	9020.00	9020.00	...	9020.00	9020.00	...	6000.00	6000.00
Total	...	2187.00	2187.00	...	9020.00	9020.00	...	9020.00	9020.00	...	6000.00	6000.00

1. **Secretariat:** Provision is for Secretariat establishment expenditure including all tribunals of the Ministry.

2. **Central Water Commission:** Provision is for establishment expenditure of Central Water Commission and the works relating to Data Collection, Direction & Administration, Survey & Investigation, Hydrological Observation, Training, Research, Consultancy, Contribution to International Bodies, Modernization of Equipment, Cell for Monitoring Externally Aided Project, Water Planning, Payment to Government of Bhutan for Maintenance of Flood Forecasting & Warning Centre and Strengthening & Modernization of Flood Forecasting and Hydrological Observation Network in Brahmaputra and Barak Basin.

3. **Central Water and Power Research Station:** Provision is for establishment expenditure of Central Water and Power Research Station. Its functions are Planning, organizing and undertaking specific research studies relating to all phases of water resources development including water-borne transport and environmental aspects. It also renders consultancy and/or advisory services to the Central and State Governments as may be called upon from time to time

4. **Central Soil and Material Research Station:** Provision is for establishment expenditure of Central Soil and Material Research Station. CSMRS deals with field and laboratory investigations, basic and applied research on problems in geo-mechanics, concrete technology, construction materials and associated environmental issues, having direct bearing on the development of irrigation and power in the country and functions as an adviser and consultant in the above fields to various projects and organizations in India and abroad.

5. **Sardar Sarovar Construction Advisory Committee:** Provision is for establishment expenditure of Sardar Sarovar Construction Advisory Committee. This committee was constituted in 1980 by the Government of India in accordance with the decisions of the Narmada Water Disputes Tribunal (NWDT) with a view to ensuring efficient, economical and early execution of Unit-I (Dam and Appurtenant works) and Unit-III (Hydro Power works) of the Sardar Sarovar Project.

6. **Bansagar Control Board:** Provision is establishment expenditure of Bansagar Control Board. Based on the Inter-State Agreement among the Chief Ministers of Madhya Pradesh, Uttar Pradesh and Bihar, Bansagar Control Board was constituted in January 1976 for efficient, economical and early execution of Bansagar Dam and connected works. The respective States carry out works of canals and power systems within their territory. The Control Board has an overall responsibility for construction of the Bansagar dam and its appurtenant structures.

7. **Upper Yamuna River Board:** Provision is establishment expenditure of monitoring of Upper Yamuna River Board. The main function of Upper Yamuna River Board is to regulate the allocation of

available flows amongst the beneficiary States and also monitoring the return flows; monitoring conserving and upgrading the quality of surface and ground water; maintaining hydro-meteorological data for the basin; over viewing plans for watershed management; monitoring and reviewing the progress of all projects upto and including Okhla barrage.

8. **Central Ground Water Board:** Provision is for establishment expenditure of Central Ground Water Board. Central Ground Water Board (CGWB), is a multidisciplinary scientific organization with a mandate to Develop and disseminate technologies and monitor and implement national policies for the scientific and sustainable development and management of ground water resources, including their exploration, assessment, conservation, augmentation, protection from pollution, and distribution, based on principles of economic and ecological efficiency and equity. CGWB, being the national apex organization, is vested with the responsibilities to carry out scientific studies, exploration aided by drilling, monitoring of ground water regime, assessment, augmentation, management and regulation of ground water resources.

9. **National Institute of Hydrology:** Provision is for National Institute of Hydrology. The Institute was established in December, 1979 by the Government of India as an autonomous society fully aided by the Union Ministry of Water Resources. Its main functions are to undertake, aid, promote and co-ordinate systematic and scientific work in all aspects of Hydrology, to co-operate and collaborate with other National, Foreign and International Organisations in the field of Hydrology, to establish and maintain a research and reference library in pursuance of objectives of the Society and equip the same with books, reviews, magazines newspapers and other relevant publications etc.

10. **National River Conservation Programme:** Provision is for National River Conservation Programme relating to River Ganga and its tributaries. Under this programme the World Bank assisted projects under National Ganga River Conservation Authorities are executed as National Mission for Clean Ganga.

12.01. **Farakka Barrage Project:** Provision is for execution of Farakka Barrage Project.

It was commissioned for preservation and maintenance of Kolkata Port by improving the region and navigability of the Bhagirathi Hoogly river system. Its main functions are operation and maintenance of Farakka Barrage, Jangipur Barrage, Feeder Canal, Navigation Locks, Facilitation and implementation of agreement on sharing of Ganga Water between India and Bangladesh etc.

14. **Dam Rehabilitation and Improvement Programme:** Provision is for Dam Rehabilitation and Improvement Programme and Damodar Valley Corporation to undertake projects for Dam Safety and its rehabilitations. As a part of continuous strengthening of dam safety activities in India, this scheme has been taken up with World Bank Assistance.

15.01. **National Ganga Plan:** Provision is for implementing schemes/projects for the river Ganga and its tributaries. It includes scheme for rehabilitation and up-gradation of existing Sewerage Treatment Plants (STPs) besides commissioning of New STPs.

15.02. **Ghat Works for Beautification of River Front:** Provision is for Ghat Works for Beautification of River Front of River Ganga.

17. **River Basin Management:** Provision is for (i) Brahmaputra Board for its regular establishment and carrying out its regular activities/works like survey, investigation & preparation/ updating of Master Plans of NE States, Drainage Development Schemes, Anti-erosion & Flood Management Works etc.; (ii) Investigation of Water Resources Development Scheme which has components for survey, investigation & preparation of DPRs by CWC and grants to NWDA for its regular establishment and preparation of Feasibility Reports (FRs) and DPRs for Interlinking of Rivers; and (iii) establishment of River Basin Authorities

19. **Interlinking of Rivers:** Provision is for detailed project report of Interlinking of Rivers of the country.

20. **Development of Water Resources Information System:** Provision is for implementation of projects relating to standardized national information system with a network of data banks and data bases, integrating and strengthening the existing Central and State Level agencies and improving the quality of data and the processing capabilities.

21. **Ground Water Management and Regulation:** Provision is for execution of project relating to Ground Water Management and Regulation for better ground water governance.

22. **National Hydrology Project:** Provision is for Implementation of National Hydrology Project, Revisiting of the methodology and model (developed by National Remote Sensing Centre and its consolidation, if required, training of the state engineers on the methodology for assessment, development of water assessment model at sub-basin level by state engineers (micro-models) in line with the macro-model of the basin, River Basin Planning, Extended Hydrological Prediction (EHP), Flood forecasting (early warning system for flash flood, flood and inundation), Sediment Modelling study, National Water Informatics Centre (NWIC) etc. This scheme has been taken up with World Bank Assistance

23. **Research and Development and Implementation of National Water Mission:** Provision is for research and development to provide educational training and human resources development programs in the water sector, and implementing schemes / projects for conservation of water, minimising of wastage and ensuring its more equitable distribution both across and within States through integrated water resources development and Management development through National Water Mission.

25. **HRD/Capacity Building Programme:** Provision is made for (i) information, Education and Communication (IEC) activities for dissemination and promotion of water conservation (ii) National Water Academy for training of officers in surface water sector, (iii) Rajiv Gandhi National Ground Water Training Institute for training of officers in surface water sector, (iv) Capacity Building Programme for regular establishment and activities of North Eastern Regional Institute of Water and Land Management (NERIWALM), a capacity building institution in the field of water and land management for Irrigation and Agriculture development. (v) Training of MoWR, RD & GR officials etc.

26. **Infrastructure Development:** Provision is for infrastructure development involving information technology infrastructure, construction/modernization of offices of Ministry and its organization.

28. **Har Khet Ko Pani:** Provision is to implement the projects under Command Area Development & Water Management and Repair, Renovation and Restoration of water bodies under PMKSY. Out of total provision of ₹2600.00 Cr. for 2018-19, ₹2290.00 Cr. is for payment of interest towards NABARD loan.

29. **Impact Assessment Studies:** Provision is for Impact Assessment Studies of the major and medium irrigation projects executed under Accelerated Irrigation Benefits Program (AIBP) in water sector.

33. **Flood Management and Border Areas Programme(FMBAP):** Provision of for control and mitigation of floods, hydrological observations and investigations of water resource projects with neighbouring countries, river management works on common/border rivers, flood control and anti erosion works, anti-sea erosion works, and maintenance of flood protection works of Kosi and Gandak Projects (in Nepal) etc.

34. **Irrigation Census:** Provision is for implementation of the projects under Irrigation Census schemes to take up Rationalization of Minor Irrigation Census etc.

35. **Atal Bhujal Yojna:** Token provision towards proposed new scheme Atal Bhujal Yojana (ABHY) to implement project for improvement of and incentivising ground water management.