

MINISTRY OF WATER RESOURCES

DEMAND NO. 104

Ministry of Water Resources

A. The Budget allocations, net of recoveries, are given below:

Major Head	Actual 2011-2012			Budget 2012-2013			Revised 2012-2013			<i>(In crores of Rupees)</i> Budget 2013-2014			
	Plan	Non-Plan	Total	Plan	Non-Plan	Total	Plan	Non-Plan	Total	Plan	Non-Plan	Total	
Revenue	493.36	469.32	962.68	1373.20	539.20	1912.40	536.50	558.05	1094.55	1302.55	574.75	1877.30	
Capital	82.16	-1.75	80.41	126.80	1.80	128.60	113.50	1.80	115.30	197.45	1.80	199.25	
Total	575.52	467.57	1043.09	1500.00	541.00	2041.00	650.00	559.85	1209.85	1500.00	576.55	2076.55	
1. Secretariat-Economic Service	3451	...	49.97	49.97	...	75.28	75.28	...	73.38	73.38	...	50.89	50.89
Major and Medium Irrigation													
2. Central Water Commission	2701	3.62	151.10	154.72	...	156.58	156.58	...	160.05	160.05	...	170.57	170.57
3. Central Soil & Materials Research Station	2701	...	8.28	8.28	...	8.49	8.49	...	10.88	10.88	...	12.01	12.01
4. Central Water & Power Research Station	2701	...	33.11	33.11	...	36.42	36.42	...	40.08	40.08	...	44.10	44.10
5. National Institute of Hydrology	2701	...	10.17	10.17	...	10.05	10.05	...	12.00	12.00	...	9.65	9.65
6. Research and Development Programme	2701	34.20	...	34.20	92.00	...	92.00	33.85	...	33.85	48.00	...	48.00
7. Others													
7.01 Boards and Committees	2701	...	1.28	1.28	...	2.95	2.95	...	2.90	2.90	...	2.53	2.53
4701	4701	...	...	...	...	...	...	...	...	...	...	...	...
Total	Total	...	1.28	1.28	...	2.95	2.95	...	2.90	2.90	...	2.53	2.53
8. Non-Plan Grants to States													
8.01 Assistance for Sutlej Yamuna Link Canal Project	3601	...	...	...	...	18.04	18.04	...	1.63	1.63	...	5.79	5.79
9. Development of Water Resources Information System	2701	46.00	...	46.00	64.45	...	64.45	34.58	...	34.58	137.91	...	137.91
2702	2702	...	...	...	0.01	...	0.01	...	...	...	0.02	...	0.02
3601	3601	7.54	...	7.54	10.48	...	10.48	3.60	...	3.60	10.00	...	10.00
3602	3602	0.05	...	0.05	0.06	...	0.06	0.06	...	0.06	0.07	...	0.07
Total	Total	53.59	...	53.59	75.00	...	75.00	38.24	...	38.24	148.00	...	148.00
10. Infrastructure Development	2701	2.13	...	2.13	3.20	...	3.20	1.50	...	1.50	2.55	...	2.55
11. Hydrology Project													
11.01 EAP Component	2701	26.61	...	26.61	64.40	...	64.40	41.50	...	41.50	64.40	...	64.40
11.02 Non EAP Component	2701	1.04	...	1.04	5.60	...	5.60	2.22	...	2.22	5.60	...	5.60
Total- Hydrology Project	Total	27.65	...	27.65	70.00	...	70.00	43.72	...	43.72	70.00	...	70.00
12. Investigation of Water Resources	2701	52.97	...	52.97	...	...	...	...	...	...	...	...	...

(In crores of Rupees)

	Major Head	Actual 2011-2012			Budget 2012-2013			Revised 2012-2013			Budget 2013-2014		
		Plan	Non-Plan	Total	Plan	Non-Plan	Total	Plan	Non-Plan	Total	Plan	Non-Plan	Total
13. Development Scheme Information, Education and Communication	2701	14.32	...	14.32	...	...	...	...	...	...	...	...	...
14. Dam Safety Studies and Planning	2701	1.38	...	1.38	...	...	...	...	...	...	...	...	...
15. River Basin Organization/Authority	2701	...	...	...	...	...	...	...	...	...	...	...	...
16. Human Resource Development/Capacity Building	2701	...	...	...	85.00	...	85.00	29.90	...	29.90	85.00	...	85.00
17. River Basin Management	2701	...	...	...	106.00	...	106.00	53.40	...	53.40	100.00	...	100.00
18. Implementation of National Water Mission	2701	...	...	...	200.00	...	200.00	0.25	...	0.25	110.00	...	110.00
19. Irrigation Management Programme	2701	...	...	...	90.00	...	90.00	0.75	...	0.75	40.00	...	40.00
20. Dam Rehabilitation and Improvement Programme (DRIP)		...	...	...	...	...	...	...	...	...	...	...	...
20.01 EAP Component	2701	...	...	...	19.00	...	19.00	1.84	...	1.84	28.88	...	28.88
20.02 Non EAP Component	2701	...	...	...	5.00	...	5.00	0.46	...	0.46	7.12	...	7.12
Total- Dam Rehabilitation and Improvement Programme (DRIP)		...	...	...	24.00	...	24.00	2.30	...	2.30	36.00	...	36.00
Total-Major and Medium Irrigation		189.86	203.94	393.80	745.20	232.53	977.73	203.91	227.54	431.45	639.55	244.65	884.20
Minor Irrigation													
21. Central Ground Water Board	2702	...	103.36	103.36	...	105.98	105.98	...	123.18	123.18	...	134.31	134.31
22. Rajiv Gandhi National Training & Research Institute for Ground Water	2702	3.65	...	3.65	...	...	...	...	...	...	...	...	...
23. Ground Water Management and Regulation	2702	130.75	...	130.75	288.00	...	288.00	150.00	...	150.00	235.00	...	235.00
24. Infrastructure Development	4702	6.97	...	6.97	33.80	...	33.80	3.63	...	3.63	28.00	...	28.00
25. Human Resource Development/Capacity Building	2702	...	...	...	15.00	...	15.00	9.00	...	9.00	9.00	...	9.00
Total-Minor Irrigation		141.37	103.36	244.73	336.80	105.98	442.78	162.63	123.18	285.81	272.00	134.31	406.31
Flood Control													
26. Central Water Commission	2711	...	70.24	70.24	...	75.62	75.62	...	75.11	75.11	...	78.96	78.96
27. Emergent Flood Protection Works in Eastern & Western Sectors	7601	...	...	...	...	3.00	3.00	...	3.00	3.00	...	3.00	3.00
28. Other Schemes of Flood Control													
28.01 Flood Forecasting	2711	33.13	...	33.13	44.00	...	44.00	26.00	...	26.00	130.00	...	130.00
28.02 River Management Activities and Works related to Border Areas	2711	62.60	...	62.60	25.00	...	25.00	23.06	...	23.06	61.00	...	61.00
	3601	73.37	...	73.37	100.00	...	100.00	6.94	...	6.94	64.00	...	64.00
Total		135.97	...	135.97	125.00	...	125.00	30.00	...	30.00	125.00	...	125.00
28.03 Infrastructure Development	4711	5.73	...	5.73	10.00	...	10.00	4.57	...	4.57	18.45	...	18.45
28.04 River Basin Management	2711	...	...	...	14.00	...	14.00	0.68	...	0.68	15.00	...	15.00
Total- Other Schemes of Flood Control		174.83	...	174.83	193.00	...	193.00	61.25	...	61.25	288.45	...	288.45
Total-Flood Control		174.83	70.24	245.07	193.00	78.62	271.62	61.25	78.11	139.36	288.45	81.96	370.41

(In crores of Rupees)

	Major Head	Actual 2011-2012			Budget 2012-2013			Revised 2012-2013			Budget 2013-2014			
		Plan	Non-Plan	Total	Plan	Non-Plan	Total	Plan	Non-Plan	Total	Plan	Non-Plan	Total	
29.	<i>Provision under schemes for the benefit of North Eastern Region and Sikkim</i>													
29.01	Research and Development Programme	2552	...	...	8.00	...	8.00	1.15	...	1.15	2.00	...	2.00
29.02	Pagladia Dam Project	2552	...	...	...	...	...	...	...	...	...	...	...
29.03	Development of Water Resources Information System	2552	...	...	10.00	...	10.00	1.76	...	1.76	2.00	...	2.00
29.04	Ground Water Management and Regulation	2552	...	...	30.00	...	30.00	30.00	...	30.00	40.00	...	40.00
29.05	Investigation Water Resources Development Scheme	2552	...	...	...	...	...	...	...	...	...	...	...
29.06	Flood Forecasting	2552	...	...	4.00	...	4.00	4.00	...	4.00	20.00	...	20.00
29.07	River Management Activities and Works related to Border Areas	2552	...	...	...	...	...	...	...	...	...	...	...
29.08	Infrastructure Development	4552	...	...	8.00	...	8.00	5.30	...	5.30	1.00	...	1.00
29.09	Human Resource Development/Capacity Building	2552	...	...	...	...	...	...	...	...	...	...	...
29.10	Irrigation Management Programme	2552	...	...	10.00	...	10.00	...	...	...	...	...	...
29.11	River Basin Management	2552	...	...	80.00	...	80.00	80.00	...	80.00	85.00	...	85.00
	<i>Total- Provision under schemes for the benefit of North Eastern Region and Sikkim</i>		...	...	150.00	...	150.00	122.21	...	122.21	150.00	...	150.00
Other Transport Services														
30.	Farakka Barrage Project	3075	...	41.81	41.81	...	49.79	49.79	...	58.84	58.84	...	65.94	65.94
		5075	69.46	...	69.46	75.00	...	75.00	100.00	...	100.00	150.00	...	150.00
		5075	...	-1.75	-1.75	...	-1.20	-1.20	...	-1.20	-1.20	...	-1.20	-1.20
	<i>Net</i>		69.46	40.06	109.52	75.00	48.59	123.59	100.00	57.64	157.64	150.00	64.74	214.74
Grand Total			575.52	467.57	1043.09	1500.00	541.00	2041.00	650.00	559.85	1209.85	1500.00	576.55	2076.55
	Head of Dev	Budget Support	IEBR	Total	Budget Support	IEBR	Total	Budget Support	IEBR	Total	Budget Support	IEBR	Total	
C. Plan Outlay														
1.	Major and Medium Irrigation	12701	189.86	...	189.86	745.20	...	745.20	203.91	...	203.91	639.55	...	639.55
2.	Minor Irrigation	12702	141.37	...	141.37	336.80	...	336.80	162.63	...	162.63	272.00	...	272.00
3.	Flood Control and Drainage	12711	174.83	...	174.83	193.00	...	193.00	61.25	...	61.25	288.45	...	288.45
4.	Other Transport Services	13075	69.46	...	69.46	75.00	...	75.00	100.00	...	100.00	150.00	...	150.00
5.	North Eastern Areas	22552	150.00	...	150.00	122.21	...	122.21	150.00	...	150.00
Total			575.52	...	575.52	1500.00	...	1500.00	650.00	...	650.00	1500.00	...	1500.00

1. **Secretariat- Economic Services:** Non Plan provision is for secretariat expenditure of the Ministry.

2. **Central Water Commission:** The provision is made for Central Water Commission.

6. **Research and Development Programme for Water Sector:** The main objectives of the scheme are (i) to find solutions to water resources related problems of the country to improve available technology and engineering methods and procedures, (ii) to maintain a lead in the latest technology (iii) to review the state of the art in the country in different branches of the subject area by collecting relevant information from national and international organizations and identify the knowledge gap to prepare and implement suitable strategy for bridging the gaps, (iv) to prepare, co-ordinate and recommend funding of research activities to be taken up by the various institutions in the country in water resources sector, (v) to disseminate information and stimulate thinking related to the subject by publishing journals, research news/digests arranging and conducting seminars/conferences/workshops, (vi) to promote educational, training and human resources development programmes in the water sector.

9. **Development of Water Resources Information System:** The scheme on Water Resources Information System proposes to establish databases and data banks at the national and state level by consolidating the data flowing mainly from the existing system.

10. **Infrastructure Development:** The Infrastructure Development Scheme of the Ministry of Water Resources has been formulated by merger / integration of four existing schemes viz. (i) Land & Building (LB) and Information Technology (IT) Plan of Central Ground Water Board (CGWB), (ii) LB of the Central Water Commission (CWC), (iii) IT development of the Ministry and (iv) upgradation/modernization of computerization and IT system of CWC.

11. **Hydrology Project:** To extend and promote the sustained and effective use of the Hydrological Information System by all implementing agencies concerned with water resources planning and management in the thirteen States and eight Central Organisations are participating in HP-II and it is envisaged to continue in the XII Plan.

16. **Human Resource Development/Capacity Building:** This comprises of four components viz. (i) Information, Education and Communication (IEC), (ii) National Water Academy (NWA), (iii) Rajiv Gandhi National Ground Water Training Institute (RGI) and (iv) Capacity Building Programme

17. **River Basin Management:** River Basin Management is a newly named scheme formulated by merging two ongoing schemes, namely, River Basin Organisation, Investigation of Water Resources Development Scheme. The scheme also includes, restructuring of CWC and activities of Brahmaputra Board under following schemes:

- (i) River Basin Organization (RBO);
- (ii) Investigation of Water Resources Development Scheme;
- (iii) Restructuring of CWC;

(iv) Brahmaputra Board.

18. **Implementation of National Water Mission:** The National Action Plan on Climate Change (NAPCC) launched by the Government of India has identified the approach to be adopted to meet the challenges of impact of climate change through institutionalization of eight national missions which inter alia includes a National Water Mission. The objective of National Water Mission is conservation of water, minimizing wastage and ensuring its more equitable distribution both across and within States through integrated water resources development and management.

19. **Irrigation Management Programme:** Irrigation Management Programme is a new scheme introduced in the XII Five Year Plan of proposed outlay of ₹ 10000.00 Crores. Identifying the injudicious inter-sectoral and intra-sectoral distribution of water amongst various categories of water users, low water use efficiency, fragmented approach to water resources planning and development, low water user charges and meagre recovery as some of the major problems associated with the management of water resources in the country, 13th Finance Commission made various recommendations. Amongst those an incentive grant of ₹ 5000 crore is recommended for Water sector management to improve its outcome. The commission suggested conditionalities for eligibility of grant which include inter-alia state-wise targets for required rate of recover of Irrigation Service fees (ISF) for each year from 2011-12 to 2014-15.

20. **Dam Rehabilitation and Improvement Programme:** The Government has formulated the scheme for implementation of Dam rehabilitation and Improvement Project (DRIP) with the World Bank assistance under which rehabilitation of 223 Dams in the States of Kerala, Madhya Pradesh, Orissa and Tamil Nadu are proposed to be taken up. After signing the agreement with the World Bank, all the DRIP activities will be taken up in this financial year, which will be spread over 6 years. The project will improve the safety and operational performance of selected existing dams with reduced risk of failure.

23. **Ground Water Management and Regulation:** There is need for scientific planning in development of ground water under different hydrogeological situations and to evolve effective management practices for better ground water governance. The major activities proposed during XII plan will be as follows- (i) Aquifer Mapping ,(ii) Strengthening of Ground Water Monitoring Observation Well- during XII plan.

28.01. **Flood Forecasting:** Flood Forecasting has been recognized as an effective tool for flood management by providing advance warning to the flood prone areas. The work of flood forecasting and warning in India involves hydrological observations on interstate rivers and entrusted with the Central Water Commission. CWC started modernisation of its flood forecasting network during IX Plan. Flood Forecasting, a non-structural measure, ensures safety to the lives and properties of people during floods.

28.02. **River Management Activities in Border Areas:** All the works i.e, expenditure on bilateral meetings with Nepal, Bhutan, China and Bangladesh, joint hydrological observation with Bangladesh for sharing of Ganga waters under Ganga Water Treaty with Bangladesh of 1996, flood forecasting activities on rivers flowing from Nepal, Bhutan, China to India including charges being paid to the Government of China for receipt of flood data of rivers Sutluj and Brahmaputra, expenditure on survey & investigation works in Nepal territory and establishment cost of Ganga Flood Control Commission (GFCC), etc, except establishment of GFCC, are of continuing nature and also important from the point of view of international cooperation. Therefore, these activities would continue during XII

plan. Similarly, GFCC would continue to look into the flood problems of Ganga basin and therefore, its establishment also needs to continue.

30. **Farakka Barrage Project:** This Plan scheme is recommended to be continued in view of the importance of the activity of maintenance of Farakka Barrage Project, its function in preservation and maintenance of Kolkata Port Trust and importance of the project for implementation of Indo Bangladesh Ganga water sharing treaty 1996. During XII Plan additional activities of decommissioning and commissioning of all damaged gates and river training bank protection works along rivers Ganga Padma and Bhagirathi including afflux bunds and guide bunds are proposed to be carried out.