

MINISTRY OF WATER RESOURCES

DEMAND NO.103

Ministry of Water Resources

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

		(In crores of Rupees)								
Major Head	Budget 2008-2009			Revised 2008-2009			Budget 2009-2010			
	Plan	Non-Plan	Total	Plan	Non-Plan	Total	Plan	Non-Plan	Total	
Revenue	491.00	277.82	768.82	455.60	334.27	789.87	516.00	400.70	916.70	
Capital	109.00	2.18	111.18	94.40	1.95	96.35	84.00	2.30	86.30	
Total	600.00	280.00	880.00	550.00	336.22	886.22	600.00	403.00	1003.00	
1. Secretariat-Economic Services	3451	...	22.53	22.53	...	22.95	22.95	...	24.80	24.80
Major and Medium Irrigation										
2. Central Water Commission	2701	2.30	80.68	82.98	2.64	91.74	94.38	2.60	123.23	125.83
3. Central Soil & Materials Research Station	2701	...	4.85	4.85	...	4.82	4.82	...	5.00	5.00
4. Central Water and Power Research Station	2701	...	17.00	17.00	...	22.10	22.10	...	25.00	25.00
5. National Institute of Hydrology	2701	...	5.20	5.20	...	5.20	5.20	...	5.30	5.30
6. Research and Development Programme	2701	59.00	...	59.00	59.00	...	59.00	51.50	...	51.50
7. Others										
7.01 Boards and Committees	2701	...	1.86	1.86	...	1.67	1.67	...	2.47	2.47
	4701	...	0.38	0.38	...	0.15	0.15	...	0.50	0.50
Total Others		...	2.24	2.24	...	1.82	1.82	...	2.97	2.97
8. Non Plan Grants to States										
8.01 Assistance for Sutlej Yamuna Link Canal Project	3601	...	25.00	25.00	...	15.00	15.00	...	22.00	22.00
9. Development of Water Resources										
Information System	2701	37.35	...	37.35	36.86	...	36.86	58.85	...	58.85
	2702	0.08	...	0.08	...	...	...	0.05	...	0.05
	3601	6.00	...	6.00	6.00	...	6.00	10.00	...	10.00
	3602	0.07	...	0.07	0.08	...	0.08	0.10	...	0.10
	Total	43.50	...	43.50	42.94	...	42.94	69.00	...	69.00
10. Infrastructure Development	2701	4.00	...	4.00	2.35	...	2.35	1.00	...	1.00
	4701	1.00	...	1.00	...	...	...	...	...	...
	Total	5.00	...	5.00	2.35	...	2.35	1.00	...	1.00
11. Hydrology Project	2701	44.00	...	44.00	25.51	...	25.51	38.10	...	38.10
12. Investigation of Water Resources Development Scheme	2701	35.00	...	35.00	35.55	...	35.55	40.00	...	40.00
13. Information, Education and Communication	2701	13.00	...	13.00	13.00	...	13.00	12.00	...	12.00
14. Dam Safety Studies and Planning	2701	1.60	...	1.60	0.58	...	0.58	1.00	...	1.00
15. River Basin Organization/Authority	2701	1.00	...	1.00	0.01	...	0.01	0.50	...	0.50
Total - Major and Medium Irrigation		204.40	134.97	339.37	181.58	140.68	322.26	215.70	183.50	399.20
Minor Irrigation										
16. Central Ground Water Board	2702	...	57.70	57.70	...	82.80	82.80	...	95.00	95.00
17. Rajiv Gandhi NGWT&RI	2702	2.10	...	2.10	0.81	...	0.81	2.00	...	2.00
18. Ground Water Management and Regulation	2702	92.30	...	92.30	81.59	...	81.59	68.00	...	68.00
19. Infrastructure Development	4702	6.50	...	6.50	4.60	...	4.60	4.00	...	4.00
Total - Minor Irrigation		100.90	57.70	158.60	87.00	82.80	169.80	74.00	95.00	169.00
Flood Control										
20. Central Water Commission	2711	...	37.40	37.40	...	53.00	53.00	...	58.45	58.45

(In crores of Rupees)										
Major Head	Budget 2008-2009			Revised 2008-2009			Budget 2009-2010			
	Plan	Non-Plan	Total	Plan	Non-Plan	Total	Plan	Non-Plan	Total	
21. Emergent flood protection works in Eastern & Western Sectors	7601	...	3.00	3.00	...	3.00	3.00	...	3.00	3.00
22. Other Schemes of Flood Control										
22.01. Flood Forecasting	2711	19.50	...	19.50	17.27	...	17.27	22.00	...	22.00
22.02. River Management Activities and Works related to Border Rivers	2711	25.00	...	25.00	25.30	...	25.30	39.30	...	39.30
	3601	43.00	...	43.00	44.00	...	44.00	80.00	...	80.00
<i>Total</i>		<i>68.00</i>	...	<i>68.00</i>	<i>69.30</i>	...	<i>69.30</i>	<i>119.30</i>	...	<i>119.30</i>
22.03. Infrastructure Development	4711	18.00	...	18.00	12.29	...	12.29	8.00	...	8.00
Total : Other Schemes of Flood Control	Total	105.50	...	105.50	98.86	...	98.86	149.30	...	149.30
Total for Flood Control	Total	105.50	40.40	145.90	98.86	56.00	154.86	149.30	61.45	210.75
23. Provision under schemes for the benefit of North Eastern States and Sikkim										
23.01 Research and Development Programme	2552	1.00	...	1.00	1.00	...	1.00	0.50	...	0.50
23.02 Pagladia Dam Project	2552	2.00	...	2.00	1.00	...	1.00	0.50	...	0.50
23.03 Development of Water Resources Information System	2552	2.50	...	2.50	2.16	...	2.16	1.00	...	1.00
23.04 Ground Water Management and Regulation	2552	2.70	...	2.70	2.70	...	2.70	2.00	...	2.00
23.05 Investigation Water Resources Development Scheme	2552	2.00	...	2.00	2.04	...	2.04	2.00	...	2.00
23.06 Flood Forecasting	2552	3.50	...	3.50	4.95	...	4.95	3.00	...	3.00
23.07 River Management Activities and Water related to Border Rivers	2552	92.00	...	92.00	91.20	...	91.20	80.00	...	80.00
<i>Total</i>		<i>105.70</i>	...	<i>105.70</i>	<i>105.05</i>	...	<i>105.05</i>	<i>89.00</i>	...	<i>89.00</i>
23.08 Infrastructure Development	4552	8.50	...	8.50	1.83	...	1.83	2.00	...	2.00
<i>Total</i>		<i>8.50</i>	...	<i>8.50</i>	<i>1.83</i>	...	<i>1.83</i>	<i>2.00</i>	...	<i>2.00</i>
Total - Provision under schemes for the benefit of North Eastern States and Sikkim		114.20	...	114.20	106.88	...	106.88	91.00	...	91.00
Other Transport Services										
24. Farakka Barrage Project	3075	...	25.60	25.60	...	34.99	34.99	...	39.45	39.45
	5075	75.00	-1.20	73.80	75.68	-1.20	74.48	70.00	-1.20	68.80
<i>Total</i>		<i>75.00</i>	<i>24.40</i>	<i>99.40</i>	<i>75.68</i>	<i>33.79</i>	<i>109.47</i>	<i>70.00</i>	<i>38.25</i>	<i>108.25</i>
Grand Total		600.00	280.00	880.00	550.00	336.22	886.22	600.00	403.00	1003.00
C. Plan Outlay	Head of Dev	Budget Support	IEBR	Total	Budget Support	IEBR	Total	Budget Support	IEBR	Total
Central Plan										
1. Major and Medium Irrigation	12701	204.40	...	204.40	181.58	...	181.58	215.70	...	215.70
2. Minor Irrigation	12702	100.90	...	100.90	87.00	...	87.00	74.00	...	74.00
3. Flood Control	12711	105.50	...	105.50	98.86	...	98.86	149.30	...	149.30
4. Other Transport Services	13075	75.00	...	75.00	75.68	...	75.68	70.00	...	70.00
5. North Eastern Areas	22552	114.20	...	114.20	106.88	...	106.88	91.00	...	91.00
Total		600.00	...	600.00	550.00	...	550.00	600.00	...	600.00

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

Major & Medium Irrigation

2. **Central Water Commission:** National Water Academy will cover the activities related to training to in-service engineers from State and Central organizations in the area of Water Resources Development and particularly Integrated River Basin Planning and Management and other subjects related to Water Resources Development and Management.

6. **Research and Development Programme for Water Sector:** The objectives of the scheme are (i) To find practical solutions to the country's water resources related problems and to improve available technology and engineering methods and procedures and in particularly to take up research studies for improvement of the efficiency of the existing facilities, (ii) To create / upgrade research facilities and equipments of the premier organisations at National level to keep pace with the present technology, (iii) To support research works to be taken up by the various institutions in the country in the water sector.

9. Development of Water Resources Information System:

The management of water resources is a highly complex task that involves multidisciplinary domains including data acquisition, numerical modellings, optimization, data warehousing and the analysis of socio-economic, environmental and legal issues. In view of water's vital role in human life, there is a need for better design and optimal use of hydro-systems. The objective of the scheme is to develop a water resources system and make it fully operational at the earliest. Water Resources Information System is dedicated to the management of water resources.

10. **Infrastructure Development:** This scheme will include the activities related to Lands & Building and IT Development and will include the activities related to (i) Land and Buildings of CWC, (ii) Land and Buildings of CGWB, (iii) IT Development of MoWR and (iv) Upgradation and Modernisation of Computerization and Information system of CWC.

11. **Hydrology Project:** To extend and promote the sustained and effective use of the Hydrological Information System (HIS) by all implementing agencies concerned with water resources planning and management in the 13 States and 8 Central agencies. The project would extend the HIS to the four new state agencies of H.P., Punjab, Goa and Pudducherry. The coverage of existing states under the project is to help them move from development of Hydrological Information System (HIS), as in the Hydrology Project Phase-I, towards use of HIS in water resources planning and management. The project will strengthen the capabilities of implementing agencies at State/Central level in using HIS for efficient water resource planning and management. It will build awareness and outreach services about HIS use; establish and enhance HIS data utilization by all concerned organizations.

12. **Investigation of Water Resources Development Scheme:** To carry out the activities related to survey, field investigation, preparation of Pre-feasibility/Feasibility Report (FRs) & Detailed Project Report (DPRs) of various Water Resources Development Schemes including the schemes for Inter Basin transfer of Water and to carry out other studies and activities considered necessary incidental, supplementary or conducive to attainment of above objectives.

13. **Information, Education and Communication:** The main objectives of the scheme are (i) To promote advocacy on the tenets of National Water Policy for adopting in projects setting, learning, documenting and dissemination, (ii) To create awareness among people of the necessity of using available water resources judiciously and sparingly, (iii) To create awareness on necessity of adopting measures for rainwater

harvesting and artificial recharge of ground water to meet present and future needs of water, (iv) To reinforce importance of traditional water bodies in maintaining water balance and meeting water needs of the population, (v) To enable the public to have direct access to various databases on techniques of conservation of water, (vi) To make conservation of water a mass campaign and to induce population to voluntarily adopt various water saving measures, (vii) To make special efforts to reach women and children through specially targeted messages.

14. **Dam Safety Studies & Planning:** The scheme envisages taking up necessary studies related to Dam Safety and infrastructure strengthening of the Dam Safety Organisation.

15. **River Basin Organization/Authority:** The objective of the scheme is to encourage formation of River Basin Organization with the primary objective of providing a forum to all the co-basin states for taking up necessary studies and evaluation etc. with a view to identify the most appropriate alternative for optimum utilization of resources and meeting the aspirations of all stakeholders.

Minor Irrigation

17. **Rajiv Gandhi Institute of Training and Research:** This scheme will cover the activities to provide a base for organizing and Upgrading the knowledge and skills of ground water professional in Planning, Investigation, Development, Management, Augmentation, Conservation and Protection of Ground Water Resources.

18. **Ground Water Management and Regulation:** The main objectives of the scheme include carrying out ground water management studies to design area specific ground water development and management plan, carrying out ground water exploration aided by drilling to delineate ground water worthy areas, to periodically assess country's ground water resources and revise / update the methodology, monitor ground water levels and quality from ground water observation wells, carrying out demonstrative artificial recharge and rain water harvesting studies to develop / update area specific methodologies, establishing/updation of data storage and information system to store, process and disseminate ground water data, regulating and countrolling ground water development in coordination with State Government Organization and carrying out geophysical studies through surface and sub-surface methods to delineate potential aquifers and pinpointing of suitable sites for ground water exploration, artificial recharge etc.

23.02. **Pagaladia Dam Project:** The main objective of the scheme is the construction of dam and canal system etc. to protect an area of 40,000 ha in Nalbari area of Assam from recurring floods of the river Pagladiya and to provide irrigation to a Gross Command Area of 54,160 ha annually (average). The project is to generate 3 MW of hydro-electricity from canal release as incidental benefit.

Flood Control

23.06. **Flood Forecasting:** To strengthen and improve the flood forecasting and inflow forecasting network in India and development of forecast information system.

23.07. **River Management Activities in Border Areas:** In view of the international issues involved, it is necessary to take up river management activities on priority in a systematic method which include hydrological observation, investigation and necessary flood control, measures in cooperation with neighbouring countries wherever necessary.

Transport Sector

24. **Farakka Barrage Project:** The main objective of the Farakka Barrage Project is "operation and maintenance of Farakka Barrage and associated structures including anti-erosion measures for safety of barrage".