

MINISTRY OF WATER RESOURCES

DEMAND NO.102

Ministry of Water Resources

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

		<i>(In crores of Rupees)</i>								
Major Head	Budget 2006-2007			Revised 2006-2007			Budget 2007-2008			
	Plan	Non-Plan	Total	Plan	Non-Plan	Total	Plan	Non-Plan	Total	
Revenue	657.11	243.91	901.02	508.86	243.91	752.77	558.00	269.96	827.96	
Capital	42.89	17.60	60.49	41.14	17.60	58.74	42.00	1.80	43.80	
Total	700.00	261.51	961.51	550.00	261.51	811.51	600.00	271.76	871.76	
1. Secretariat-Economic services	3451	12.13	15.42	27.55	2.23	20.84	23.07	...	20.76	20.76
Major and Medium Irrigation										
2. Central Water Commission	2701	27.09	71.11	98.20	23.26	73.78	97.04	2.00	79.52	81.52
	4701	...	...	...	0.49	...	0.49	...	...	...
<i>Total</i>		27.09	71.11	98.20	23.75	73.78	97.53	2.00	79.52	81.52
3. Central Soil & Materials Research Station	2701	8.14	4.23	12.37	7.52	4.24	11.76	...	4.65	4.65
4. Central Water and Power Research Station	2701	5.45	14.88	20.33	4.10	16.20	20.30	...	16.10	16.10
5. National Water Development Agency	2701	41.00	...	41.00	21.00	...	21.00	...	...	...
6. National Institute of Hydrology	2701	17.28	4.62	21.90	3.76	4.50	8.26	...	4.95	4.95
7. Research and Development Programme	2701	12.56	...	12.56	7.50	...	7.50	29.00	...	29.00
8. Others										
8.01 Boards and Committees	2701	...	1.73	1.73	...	1.73	1.73	...	2.05	2.05
9. <i>Non Plan Grants to States</i>										
9.01 Assistance for Sulej Yamuna Link Canal Project	3601	...	25.00	25.00	...	10.37	10.37	...	25.00	25.00
10. Development of Water Resources Information System	2701	...	...	...	...	...	...	27.85	...	27.85
11. Infrastructure Development	2701	...	...	...	...	...	...	3.00	...	3.00
	4701	...	...	...	...	...	...	1.00	...	1.00
<i>Total</i>		...	...	...	...	...	...	4.00	...	4.00
12. Hydrology Project	2701	...	...	...	...	...	...	33.00	...	33.00
13. Investigation of Water Resources Development Scheme	2701	...	...	...	...	...	...	29.56	...	29.56
14. Information, Education and Communication	2701	...	...	...	...	...	...	2.00	...	2.00
15. Dam Safety Studies and Planning	2701	...	...	...	...	...	...	1.00	...	1.00
16. River Basin Organization/Authority	2701	...	...	...	...	...	...	0.50	...	0.50
Total - Major and Medium Irrigation		111.52	121.57	233.09	67.63	110.82	178.45	128.91	132.27	261.18
Minor Irrigation										
17. Central Ground Water Board	2702	66.24	51.16	117.40	59.45	56.00	115.45	1.50	55.70	57.20
	4702	6.60	...	6.60	4.85	...	4.85	...	...	...
<i>Total</i>		72.84	51.16	124.00	64.30	56.00	120.30	1.50	55.70	57.20
18. Surface Water Schemes	2702	0.34	...	0.34	0.34	...	0.34	...	...	...
	3601	7.68	...	7.68	7.58	...	7.58	...	...	...
	3602	0.08	...	0.08	0.08	...	0.08	...	...	...
<i>Total</i>		8.10	...	8.10	8.00	...	8.00	...	...	...
19. Ground Water Management and Regulation	2702	...	...	...	...	...	...	55.40	...	55.40
20. Infrastructure Development	4702	...	...	...	...	...	...	4.15	...	4.15
Total - Minor Irrigation		80.94	51.16	132.10	72.30	56.00	128.30	61.05	55.70	116.75
21. Command Area Development	2705	5.30	...	5.30	5.40	...	5.40	3.00	...	3.00
	3601	193.80	...	193.80	179.08	...	179.08	282.00	...	282.00
Total Command Area Development	Total	199.10	...	199.10	184.48	...	184.48	285.00	...	285.00
Flood Control										
22. Central Water Commission	2711	23.13	32.09	55.22	11.62	32.94	44.56	...	36.24	36.24
	4711	2.89	...	2.89	2.40	...	2.40	...	...	...
<i>Total</i>		26.02	32.09	58.11	14.02	32.94	46.96	...	36.24	36.24
23. <i>Flood Control Works in States</i>										

		(In crores of Rupees)								
Major Head	Budget 2006-2007			Revised 2006-2007			Budget 2007-2008			
	Plan	Non-Plan	Total	Plan	Non-Plan	Total	Plan	Non-Plan	Total	
23.01 Critical anti-erosion works in Ganga Basin States.	2711	30.00	...	30.00	34.75	...	34.75	...	...	...
	3601	81.20	...	81.20	45.50	...	45.50	...	...	...
Total Flood control works in States	Total	111.20	...	111.20	80.25	...	80.25	...	...	...
24. Emergent flood protection works in Eastern & Western Sectors	7601	...	3.00	3.00	...	3.00	3.00	...	3.00	3.00
25. <i>Other Schemes of Flood Control</i>										
25.01 Ganga Flood Control Commission	2711	2.75	...	2.75	2.71	...	2.71	...	...	...
25.02 Maintenance of Flood Protection Works of Kosi and Gandak Projects	3601	5.24	...	5.24	3.24	...	3.24	...	...	...
25.03 Others Extension of embankments on Lalbakeya, Kamla, Bagmati and Khando Rivers	3601	32.25	...	32.25	25.00	...	25.00	...	...	...
26. Flood Forecasting	2711	...	...	...	...	...	...	12.34	...	12.34
27. River Management Activities and Works related to Border Rivers	2711	...	...	...	...	...	...	18.25	...	18.25
28. Infrastructure Development	4711	...	...	...	...	...	...	1.45	...	1.45
Total : Other Schemes of Flood Control	<i>Total</i>	<i>40.24</i>	<i>...</i>	<i>40.24</i>	<i>30.95</i>	<i>...</i>	<i>30.95</i>	<i>32.04</i>	<i>...</i>	<i>32.04</i>
29. <i>Cooperation with Neighbouring Countries</i>										
29.01 Joint Observations on rivers common with Bangladesh and Neighbouring Countries	2711	1.50	...	1.50	1.50	...	1.50	...	...	...
29.02 Survey and Investigation of Kosi High Dam Project	2711	13.90	...	13.90	8.50	...	8.50	...	...	...
29.03 Pancheswar Multipurpose Projects	2711	2.13	...	2.13	2.12	...	2.12	...	...	...
Total :Cooperation with Neighbouring Countries		17.53	...	17.53	12.12	...	12.12	...	...	...
Total for Flood Control		194.99	35.09	230.08	137.34	35.94	173.28	32.04	39.24	71.28
30. <i>Provision under schemes for the benefit of North Eastern States and Sikkim</i>										
30.01 Monitoring of Water Quality of Rivers in India	2552	0.10	...	0.10	0.10	...	0.10	...	...	...
30.02 Strengthening of Monitoring Organisations	2552	0.15	...	0.15	0.15	...	0.15	...	...	...
30.03 Data collection from Key Hydrological Stations	2552	0.80	...	0.80	0.80	...	0.80	...	...	...
30.04 Studies on Reservoir Sedimentation, River Morphology and Other Remote Sensing Applications	2552	0.10	...	0.10	0.10	...	0.10	...	...	...
30.05 Investigation for WR Development in North Eastern States	2552	0.44	...	0.44	0.44	...	0.44	...	...	...
30.06 Research and Development Programme	2552	0.50	...	0.50	0.50	...	0.50	1.00	...	1.00
30.07 Geo Technical Investigation for River Valley Project	2552	0.20	...	0.20	0.20	...	0.20	...	...	...
30.08 National Institute of Hydrology	2552	0.20	...	0.20	0.20	...	0.20	...	...	...
30.09 Ground Water Survey Exploration and Investigation	2552	6.60	...	6.60	6.60	...	6.60	...	...	...
30.10 R & D Schemes under CAD	2552	0.10	...	0.10	0.10	...	0.10	...	...	...

		(In crores of Rupees)								
Major Head	Budget 2006-2007			Revised 2006-2007			Budget 2007-2008			
	Plan	Non-Plan	Total	Plan	Non-Plan	Total	Plan	Non-Plan	Total	
30.11 Command Area Development Programme	2552	6.50	...	6.50	6.50	...	6.50	15.00	...	15.00
30.12 Strengthening and Modernisation of FF & HO	2552	3.66	...	3.66	3.66	...	3.66	...	...	...
30.13 Rationalisation of Minor Irrigation Statistics	2552	1.00	...	1.00	1.00	...	1.00	...	...	...
30.14 Grants-in-aid to Brahmaputra Board	2552	28.12	...	28.12	16.76	...	16.76	...	...	...
30.15 Pagladia Dam Project	2552	5.00	...	5.00	3.00	...	3.00	1.00	...	1.00
30.16 New Schemes for Majuli Island in Assam, Dihang Project, etc.	2552	14.45	...	14.45	12.51	...	12.51	...	...	...
30.17 Development of Water Resources Information System	2552	...	...	...	...	...	...	2.15	...	2.15
30.18 Ground Water Management and Regulation	2552	...	...	...	...	...	...	6.60	...	6.60
30.19 Investigation Water Resources Development Scheme	2552	...	...	...	...	...	...	0.44	...	0.44
30.20 Flood Forecasting	2552	...	...	...	...	...	...	3.66	...	3.66
30.21 River Management Activities and Water related to Border Rivers	2552	...	...	...	...	...	...	27.75	...	27.75
<i>Total</i>		67.92	...	67.92	52.62	...	52.62	57.60	...	57.60
30.22 Acquisition of Land & Building for CGWB	4552	0.40	...	0.40	0.40	...	0.40	...	...	...
30.23 Schemes for Construction of non-residential/residential/ office Buildings of CWC	4552	2.00	...	2.00	2.00	...	2.00	...	...	...
30.24 Infrastructure Development	4552	...	...	...	...	...	...	2.40	...	2.40
<i>Total</i>		2.40	...	2.40	2.40	...	2.40	2.40	...	2.40
Total - Provision under schemes for the benefit of North Eastern States and Sikkim		70.32	...	70.32	55.02	...	55.02	60.00	...	60.00
Other Transport Services										
31. Farakka Barrage Project	3075	...	23.67	23.67	...	23.31	23.31	...	24.99	24.99
	5075	31.00	-1.20	29.80	31.00	-1.20	29.80	33.00	-1.20	31.80
<i>Total</i>		31.00	22.47	53.47	31.00	22.11	53.11	33.00	23.79	56.79
32. Non-Plan loan to Public Enterprises										
32.01 National Projects Construction Corp. Ltd.	6701	...	15.80	15.80	...	15.80	15.80	...	...	...
33. Aid Materials and Equipments Deduct - Transfer to Functional Major Head	3606	...	...	...	...	...	...	...	0.30	0.30
Net	3606	...	...	...	...	...	...	...	-0.30	-0.30
Grand Total		700.00	261.51	961.51	550.00	261.51	811.51	600.00	271.76	871.76
C. Plan Outlay	Head of Dev	Budget Support	IEBR	Total	Budget Support	IEBR	Total	Budget Support	IEBR	Total
Central Plan										
1. Secretariat-Economic services	13451	12.13	...	12.13	2.23	...	2.23	...	...	...
2. Major and Medium Irrigation	12701	111.52	...	111.52	67.63	...	67.63	128.91	...	128.91
3. Minor Irrigation	12702	80.94	...	80.94	72.30	...	72.30	61.05	...	61.05
4. Command Area Development	12705	199.10	...	199.10	184.48	...	184.48	285.00	...	285.00
5. Flood Control	12711	194.99	...	194.99	137.34	...	137.34	32.04	...	32.04
6. Other Transport Services	13075	31.00	...	31.00	31.00	...	31.00	33.00	...	33.00
7. North Eastern Areas	22552	70.32	...	70.32	55.02	...	55.02	60.00	...	60.00
Total		700.00	...	700.00	550.00	...	550.00	600.00	...	600.00

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

Major & Medium Irrigation

5. **National Water Development Agency:** National Water Development Agency is entrusted with the task of conducting detailed survey and investigation for feasibility of inter-basin transfers of surplus water to meet the requirements of drought prone areas in the peninsular river systems. It also includes provision for preparation of Detailed Project Reports and Task Force on inter-linking of rivers.

7. **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 (ii) To create / upgrade research facilities and equipments of the premier organisation at National level.

8.01 **Boards and Committees:** This includes provision for Sardar Sarovar Construction Advisory Committee, Bansagar Control Board and Upper Yamuna River Board. The expenditure in respect of these Organisations is recovered from the participating States.

9.01 **Assistance for Sutlej-Yamuna Link Canai Project:** Provision of Rs.25.00 crore has been made for this project in BE 2007-08 for undertaking balance works on the project.

10. **Development of Water Resources Information System:** The management of water resources is a highly complex task that involves multidisciplinary domains including data acquisition, numerical modelling, optimization, data warehousing, and the analysis of socio-economic, environmental and legal issues. The objective of the scheme is to develop a water resources system and make it fully operational at the earliest.

11. This scheme will include the activities related to (i) Land & buildings of CWC (ii) Land and buildings of CGWB, (iii) IT Development of MOWR, and (iv) Upgradation and Modernization of Computerization and Information System of CWC.

12. **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.

13. **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.

14. **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 the people of 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.

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

16. **River Basin Organisation/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

19. **Ground Water Management and Regulation:** The main objectives of the scheme are to carry out ground water management studies, 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, establishing/update of data storage and information system and to carry out geophysical studies through surface and sub-surface methods.

20. **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) Lands and Buildings of CGWB, (iii) IT Development of MoWR and (iv) Upgradation and Modernisation of Computerization and Information system of CWC .

21. Command Area Development and Water Management Programme (CADWM)

The Centrally sponsored Command Area Development (CAD) Programme was launched in 1974-75 with the objective of bridging the gap between irrigation potential created and utilized and optimizing agriculture production from irrigated lands on a sustainable basis. The programme envisaged to integrate all activities relating to irrigated agriculture in a coordinated manner with multidisciplinary team under an Area Development Authority.

With a view to improve its effectiveness, the CAD programme was restructured with effect from 1.4.2004 and renamed as Command Area Development and Water Management (CADWM) Programme. In accordance with budget announcement of 2006 further revamping of CADWM for XI Plan is under way. The revamped programme would focus on implementation of various activities through Water Users' Associations. The scope of certain activities is also being expanded to take care of conveyance deficiencies and reclamation of waterlogged, saline and alkaline lands in all the Irrigation Commands of the country.

26 **Flood Forecasting:** Scheme for strengthening and improvement of the flood forecasting and inflow forecasting network in India and development of forecast information system.

27 **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 neighboring countries wherever necessary.

Flood Control

30.15 **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 Pagladia 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.

Transport Sector

31. **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".