

MINISTRY OF WATER RESOURCES

DEMAND NO.104

Ministry of Water Resources

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

<i>(In crores of Rupees)</i>										
Major Head	Budget 2003-2004			Revised 2003-2004			Budget 2004-2005			
	Plan	Non-Plan	Total	Plan	Non-Plan	Total	Plan	Non-Plan	Total	
Revenue	510.50	198.79	709.29	306.75	202.66	509.41	537.82	231.63	769.45	
Capital	43.50	16.00	59.50	43.25	17.34	60.59	42.18	17.60	59.78	
Total	554.00	214.79	768.79	350.00	220.00	570.00	580.00	249.23	829.23	
1. Secretariat-Economic services	3451	1.50	11.68	13.18	0.86	12.64	13.50	2.20	13.54	15.74
Major and Medium Irrigation										
2. Central Water Commission	2701	25.98	64.82	90.80	23.00	65.60	88.60	28.63	67.45	96.08
	4701	...	...	...	...	...	...	1.00	...	1.00
<i>Total</i>		25.98	64.82	90.80	23.00	65.60	88.60	29.63	67.45	97.08
3. Central Soil & Materials Research Station	2701	5.45	3.95	9.40	5.37	3.95	9.32	5.71	4.05	9.76
	4701	...	...	...	...	...	...	0.18	...	0.18
<i>Total</i>		5.45	3.95	9.40	5.37	3.95	9.32	5.89	4.05	9.94
4. Central Water and Power Research Station	2701	4.85	12.79	17.64	4.72	13.41	18.13	3.55	13.91	17.46
5. National Water Development Agency	2701	20.00	...	20.00	21.95	...	21.95	35.00	...	35.00
6. National Institute of Hydrology	2701	3.30	3.68	6.98	3.50	3.48	6.98	3.66	3.84	7.50
7. Research and Development Programme	2701	15.00	...	15.00	10.79	...	10.79	4.00	...	4.00
8. Others	2701	...	1.42	1.42	...	1.45	1.45	...	1.47	1.47
Non-Plan Grants to States										
9. Assistance for Sutlej Yamuna Link Canal Project	3601	...	1.00	1.00	...	1.00	1.00	...	25.00	25.00
Total - Major and Medium Irrigation		74.58	87.66	162.24	69.33	88.89	158.22	81.73	115.72	197.45
Minor Irrigation										
10. Central Ground Water Board	2702	84.22	46.11	130.33	82.57	46.86	129.43	53.70	48.17	101.87
	3601	...	...	...	...	...	...	38.00	...	38.00
	3602	...	...	...	...	...	...	2.00	...	2.00
	4702	3.00	...	3.00	3.32	...	3.32	5.00	...	5.00
<i>Total</i>		87.22	46.11	133.33	85.89	46.86	132.75	98.70	48.17	146.87
11. Surface Water Schemes	2702	0.45	...	0.45	0.45	...	0.45	0.45	...	0.45
	3601	7.50	...	7.50	7.50	...	7.50	6.50	...	6.50
	3602	0.05	...	0.05	0.05	...	0.05	0.05	...	0.05
<i>Total</i>		8.00	...	8.00	8.00	...	8.00	7.00	...	7.00
Total - Minor Irrigation		95.22	46.11	141.33	93.89	46.86	140.75	105.70	48.17	153.87
12. Command Area Development	2705	4.00	...	4.00	3.96	...	3.96	4.50	...	4.50
	3601	198.00	...	198.00	51.10	...	51.10	177.00	...	177.00
<i>Total</i>		202.00	...	202.00	55.06	...	55.06	181.50	...	181.50
Flood Control										
13. Central Water Commission	2711	17.00	29.36	46.36	15.50	30.35	45.85	12.38	31.11	43.49
	4711	3.00	...	3.00	3.00	...	3.00	5.00	...	5.00
<i>Total</i>		20.00	29.36	49.36	18.50	30.35	48.85	17.38	31.11	48.49
14. Flood Control Works in States										
14.01 Grants for Flood Proofing Programmes	3601	2.00	...	2.00	1.25	...	1.25	1.00	...	1.00
14.02 Critical anti-erosion works in Ganga Basin States	3601	12.50	...	12.50	10.75	...	10.75	24.00	...	24.00
	5075	12.50	...	12.50	12.50	...	12.50	6.00	...	6.00
<i>Total</i>		27.00	...	27.00	24.50	...	24.50	31.00	...	31.00
15. Emergent flood protection works in Eastern & Western Sectors	7601	...	3.00	3.00	...	3.00	3.00	...	3.00	3.00
16. Other Schemes of Flood Control										
16.01 Ganga Flood Control Commission	2711	2.10	...	2.10	2.10	...	2.10	2.29	...	2.29

(In crores of Rupees)										
Major Head	Budget 2003-2004			Revised 2003-2004			Budget 2004-2005			
	Plan	Non-Plan	Total	Plan	Non-Plan	Total	Plan	Non-Plan	Total	
16.02 Maintenance of Flood Protection Works of Kosi and Gandak Projects	2711	6.00	...	6.00	5.32	...	5.32	...	...	...
	3601	...	...	...	...	...	...	6.00	...	6.00
	<i>Total</i>	<i>6.00</i>	...	<i>6.00</i>	<i>5.32</i>	...	<i>5.32</i>	<i>6.00</i>	...	<i>6.00</i>
16.03 Others	2711	2.00	...	2.00	1.00	...	1.00	0.50	...	0.50
	3601	7.00	...	7.00	1.29	...	1.29	21.00	...	21.00
	3602	...	...	...	...	...	...	1.50	...	1.50
	<i>Total</i>	<i>9.00</i>	...	<i>9.00</i>	<i>2.29</i>	...	<i>2.29</i>	<i>23.00</i>	...	<i>23.00</i>
Total : Other Schemes of Flood Control		17.10	...	17.10	9.71	...	9.71	31.29	...	31.29
17. Cooperation with Neighbouring Countries										
17.01 Joint Observations on rivers common with Bangladesh and Neighbouring Countries	2711	2.00	...	2.00	1.00	...	1.00	0.80	...	0.80
17.02 Survey and Investigation of Kosi High Dam Project	2711	1.00	...	1.00	0.50	...	0.50	6.00	...	6.00
17.03 Pancheswar Multipurpose Projects	2711	3.60	...	3.60	2.75	...	2.75	2.40	...	2.40
Total: Cooperation with Neighbouring Countries		6.60	...	6.60	4.25	...	4.25	9.20	...	9.20
18. Provision under schemes for the benefit of North Eastern States and Sikkim										
18.01 Grants-in-aid to Brahmaputra Board	2552	20.00	...	20.00	20.00	...	20.00	20.00	...	20.00
18.02 Flood Control in Brahmaputra and Barak Valley	2552	10.00	...	10.00	...	...	...	20.00	...	20.00
18.03 Pagladia Dam Project	2552	45.00	...	45.00	3.66	...	3.66	40.00	...	40.00
18.04 Harrange Drainage Scheme	2552	5.00	...	5.00	15.34	...	15.34	...	...	...
18.05 New Schemes for Majuli Island in Assam, Dihang Project, etc.	2552	5.00	...	5.00	10.47	...	10.47	15.00	...	15.00
Total - Provision under schemes for the benefit of North Eastern States and Sikkim		85.00	...	85.00	49.47	...	49.47	95.00	...	95.00
Total - Flood Control		155.70	32.36	188.06	106.43	33.35	139.78	183.87	34.11	217.98
Other Transport Services										
19. Farakka Barrage Project	3075	...	23.98	23.98	...	23.92	23.92	...	23.09	23.09
	5075	25.00	-1.00	24.00	24.43	-1.20	23.23	25.00	-1.20	23.80
	<i>Total</i>	<i>25.00</i>	<i>22.98</i>	<i>47.98</i>	<i>24.43</i>	<i>22.72</i>	<i>47.15</i>	<i>25.00</i>	<i>21.89</i>	<i>46.89</i>
20. Non-Plan loan to Public Enterprises										
20.01 National Projects										
Construction Corp. Ltd.	6701	...	14.00	14.00	...	15.54	15.54	...	15.80	15.80
21. Aid Materials and Equipment	3606	...	...	...	...	...	...	...	0.18	0.18
Deduct - Transfer to Functional Major Head	3606	...	...	...	...	...	...	...	-0.18	-0.18
	<i>Net</i>	...	...	...	...	...	...	...	...	...
Grand Total		554.00	214.79	768.79	350.00	220.00	570.00	580.00	249.23	829.23
C. Plan Outlay	Head of Dev.	Budget Support	I.E.B.R	Total	Budget Support	I.E.B.R	Total	Budget Support	I.E.B.R	Total
Central Plan										
1. Secretariat-Economic services	13451	1.50	...	1.50	0.86	...	0.86	2.20	...	2.20
2. Major and Medium Irrigation	12701	74.58	...	74.58	69.33	...	69.33	81.73	...	81.73
3. Minor Irrigation	12702	95.22	...	95.22	93.89	...	93.89	105.70	...	105.70
4. Command Area Development	12705	202.00	...	202.00	55.06	...	55.06	181.50	...	181.50
5. Flood Control	12711	70.70	...	70.70	56.96	...	56.96	88.87	...	88.87
6. Other Transport Services	13075	25.00	...	25.00	24.43	...	24.43	25.00	...	25.00
7. North Eastern Areas	22552	85.00	...	85.00	49.47	...	49.47	95.00	...	95.00
Total		554.00	...	554.00	350.00	...	350.00	580.00	...	580.00

1. **Secretariat-Economic Services:** Non-Plan provision is for secretariat expenditure of the Ministry. The Plan outlay is meant for "Information Technology Development", Project Secretariat Unit (PSU) of "Hydrology Project" which is an externally aided scheme and "Water Quality Assessment Authority".

Major and Medium Irrigation

2. **Central Water Commission:** It is charged with the responsibility of giving advice, in consultation with the State Governments concerned, on initiating, coordinating and furthering schemes for the control, conservation and utilisation of water resources for the purpose of irrigation, navigation and flood control throughout the country. Being the premier technical organisation in the country in the field of development and utilisation of water resources, it plays an important role in the field of planning, investigation, design and research in connection with multipurpose river valley and flood control projects.

3. **Central Soil & Materials Research Station:** The Central Soil & Materials Research Station (CSMRS) is the premier organisation in the country dealing with field exploration, laboratory investigations, basic and applied research in the realm of geomechanics, concrete technology and materials of construction relevant to River Valley Projects.

4. **Central Water and Power Research Station:** The Central Water and Power Research Station (CWPRS), established in 1916, is responsible for conducting applied research in the field of river engineering, ship-dynamics, hydraulic machinery, stratified flows, foundation and structure, geo-techniques, earthquake engineering, mathematical modelling and instrumentation. It is one of the largest institutions of its kind in the world and the premier engineering research institution in the country.

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.

6. **National Institute of Hydrology:** The National Institute of Hydrology deals with the fundamental and applied research in the field of Hydrology.

7. **Research & Development Programme:** Grants-in-aid are given to various autonomous bodies and State research institutions for carrying out research schemes relating to water resources.

8. **Other Schemes of Major and Medium Irrigation:** This include 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. **Assistance for Sutlej-Yamuna Link Canal Project:** The provision has been made for this project for undertaking balance works on the project.

Minor Irrigation

10. **Central Ground Water Board:** Central Ground Water Board is responsible for undertaking hydrogeological surveys and exploratory drilling for delineating the ground water worthy areas in the country and assisting the States in the preparation of ground water development schemes. This also includes provision for the Central Ground Water Authority, which has been set up under Section 5 of the Environment (Protection) Act, 1986. Provision has been kept for centrally sponsored scheme "Artificial recharge of ground water".

11. **Surface Water Schemes:** The provision is for releasing grants to States and Union Territories for the scheme "Census of Rationalisation of Minor Irrigation Statistics".

12. **Command Area Development Programme:** The centrally sponsored "Command Area Development Programme" was launched in 1974-75 with the objective of bridging the gap between the irrigation potential created and that utilized through efficient utilization of created irrigation potential and optimizing agricultural production from irrigated lands on a sustainable basis. Initially 60 major and medium irrigation projects were taken up covering cultivable command area of about 15 million hectares. Till now 310 projects with cultivable command area of 30.37 million hectares has been taken up. Till now, an area of about 16 million hectares has been benefited through this programme. Farmers' participation is also encouraged under the programme. This also includes provision for Research and Development.

Flood Control

13. **Central Water Commission:** This includes provision for establishment, maintenance and modernisation of Flood Forecasting and Warning Centres at key sites on important inter State river basins under the Central Water Commission. The Flood Forecasting work, which was taken up during the 4th Plan period in the flood prone basins of Ganga, Brahmaputra, Narmada, Tapi, Teesta and the coastal rivers of Orissa, has been extended to cover the Godavari, Damodar, Krishna, Mahi and the Sabarmati rivers due to its proven usefulness. The Flood Forecasts issued by the Central Water Commission through its net work of hydrometeorological stations and wireless stations are of great help to the local authorities in flood management and in minimising the flood damages.

The Commission is also entrusted with the responsibility of undertaking and executing specific schemes on behalf of Indo-Bangladesh Joint Rivers Commission.

14. Flood Control Works in States

14.01 **Flood Proofing Programme:** Under this item, central assistance in the form of grants is proposed to be released to State Governments for implementation of flood proofing programmes in North Bihar and in other States.

14.02 **Critical Anti-erosion Works in Ganga Basin States:** The provision is meant for critical anti-erosion works in Ganga Basin States.

15. **Emergent flood protection works in Eastern and Western Sectors:** The Non-Plan provision represents special loan assistance to States for emergent flood protection works in the Eastern and Western Sectors of the country.

16. **Other Schemes of Flood Control:** This includes provision for the Ganga Flood Control Commission which is engaged in Master Plan preparation of Flood Control in Ganga Basin and for fundamental and basic research on Flood Control projects. This also includes provision for maintenance of flood protection works of Kosi and Gandak Projects; extension of embankments on Lalbakeya, Kamla, Bagmati and Khando Rivers; critical anti-erosion works in coastal & other than Ganga Basin States; and improvement of drainage in critical areas of India.

17. **Cooperation with Neighbouring Countries:** The provision is meant for survey and investigation of schemes/projects on rivers common with neighbouring countries viz. Nepal, Bhutan and Bangladesh.

18. Provision under schemes for the benefit of North Eastern States and Sikkim.

18.01 **Brahmaputra Board:** The Brahmaputra Board was constituted by Government of India with the specific objective of preparing Master Plan for the control of floods and bank erosion and improvement to the drainage of the Brahmaputra and the Barak Valleys besides carrying out surveys and investigations for facilitating the preparation of the Master Plan keeping in view the water resources development of the Brahmaputra Basin for multipurpose benefits. The entire expenditure of the Board is met by Central Government in the form of grants-in-aid.

18.02 Flood control in Brahmaputra and Barak Valley: Central assistance would be provided for execution of flood control works in Brahmaputra and Barak Valley. This would be in the form of grant.

18.03 Pagladia Dam Project: This project is being executed by Brahmaputra Board. This project will mitigate flood problems of Assam state and will also generate some power.

18.05 New schemes for Majuli island in Assam, Dihang Project, etc.: UNESCO has recently declared the Majuli island as a world heritage. For protecting the biggest river island in the world, the Brahmaputra Board has prepared a Detailed Project Report for undertaking works.

Transport Sector

19. Farakka Barrage Project: The Farakka Barrage Project, which is essentially a transport sector project, is being implemented by this Ministry. The main barrage at Farakka across

river Ganga and barrage on Bhagirathi near Jangipur, a road-cum-rail bridge and feeder canal taking off from the barrage and falling into Bhagirathi, were completed in 1975. The navigation lock at Farakka has been dedicated to the nation in 1987. With the completion of the lock at Farakka, inland navigation route from Haldia to Farakka and from Patna to Allahabad has been restored.

20. Non-Plan Loan to Public Enterprises

20.1 National Projects Construction Corporation Limited: The provision is for Non-Plan loan to National Projects Construction Corporation Ltd. to enable it to make payment of salaries/wages to its employees of idle units and for clearing cases under Voluntary Retirement Scheme.

21. Aid Materials and Equipment: The provision has been kept under non-plan to adjust cost of equipment received from Norway.