

MINISTRY OF WATER RESOURCES**DEMAND NO.86****Ministry of Water Resources**

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

		<i>(In crores of Rupees)</i>								
Major Head	Budget 2001-2002			Revised 2001-2002			Budget 2002-2003			
	Plan	Non-Plan	Total	Plan	Non-Plan	Total	Plan	Non-Plan	Total	
Revenue	466.26	212.37	678.63	419.00	206.35	625.35	511.30	210.75	722.05	
Capital	33.74	16.00	49.74	31.00	34.00	65.00	38.70	16.00	54.70	
Total	500.00	228.37	728.37	450.00	240.35	690.35	550.00	226.75	776.75	
1. Secretariat-Economic services	3451	1.74	10.95	12.69	1.68	11.52	13.20	2.02	11.69	13.71
Major and Medium Irrigation										
2. Central Water Commission	2701	20.58	71.25	91.83	18.67	68.48	87.15	22.62	69.74	92.36
	4701	...	...	...	...	...	...	...	...	...
	<i>Total</i>	<i>20.58</i>	<i>71.25</i>	<i>91.83</i>	<i>18.67</i>	<i>68.48</i>	<i>87.15</i>	<i>22.62</i>	<i>69.74</i>	<i>92.36</i>
3. Central Soil & Materials										
Research Station	2701	6.23	4.06	10.29	6.00	3.75	9.75	6.62	3.85	10.47
	4701	0.30	...	0.30	...	...	...	...	...	...
	<i>Total</i>	<i>6.53</i>	<i>4.06</i>	<i>10.59</i>	<i>6.00</i>	<i>3.75</i>	<i>9.75</i>	<i>6.62</i>	<i>3.85</i>	<i>10.47</i>
4. Central Water and Power										
Research Station	2701	1.83	13.60	15.43	1.25	13.09	14.34	3.90	13.31	17.21
	4701	4.44	...	4.44	4.00	...	4.00	4.70	...	4.70
	<i>Total</i>	<i>6.27</i>	<i>13.60</i>	<i>19.87</i>	<i>5.25</i>	<i>13.09</i>	<i>18.34</i>	<i>8.60</i>	<i>13.31</i>	<i>21.91</i>
5. National Water Development Agency	2701	15.00	...	15.00	14.50	...	14.50	16.50	...	16.50
6. National Institute of Hydrology	2701	4.40	3.23	7.63	2.87	3.21	6.08	2.96	3.27	6.23
7. Research and Development										
Programme	2701	2.36	...	2.36	2.36	...	2.36	2.50	...	2.50
8. Others	2701	...	1.50	1.50	...	0.64	0.64	...	1.43	1.43
Non-Plan Grants to States										
9. Assistance for Sutlej Yamuna										
Link Canal Project	3601	...	8.00	8.00	...	8.00	8.00	...	8.00	8.00
Total - Major and Medium Irrigation		55.14	101.64	156.78	49.65	97.17	146.82	59.80	99.60	159.40
Minor Irrigation										
10. Central Ground Water Board	2702	74.57	44.43	119.00	111.68	44.43	156.11	98.16	45.30	143.46
	4702	3.00	...	3.00	3.50	...	3.50	3.00	...	3.00
	<i>Total</i>	<i>77.57</i>	<i>44.43</i>	<i>122.00</i>	<i>115.18</i>	<i>44.43</i>	<i>159.61</i>	<i>101.16</i>	<i>45.30</i>	<i>146.46</i>
11. Ground Water Schemes	3601	...	...	...	...	...	...	...	...	...
12. Surface Water Schemes	2702	0.26	...	0.26	0.40	...	0.40	0.35	...	0.35
	3601	6.50	...	6.50	6.55	...	6.55	7.45	...	7.45
	3602	0.25	...	0.25	0.05	...	0.05	0.20	...	0.20
	<i>Total</i>	<i>7.01</i>	<i>...</i>	<i>7.01</i>	<i>7.00</i>	<i>...</i>	<i>7.00</i>	<i>8.00</i>	<i>...</i>	<i>8.00</i>
Total - Minor Irrigation		84.58	44.43	129.01	122.18	44.43	166.61	109.16	45.30	154.46
13. Command Area Development	2705	4.90	...	4.90	4.90	...	4.90	4.00	...	4.00
	3601	182.29	...	182.29	110.63	...	110.63	198.00	...	198.00
	7601	...	...	...	...	...	...	...	...	...
	<i>Total</i>	<i>187.19</i>	<i>...</i>	<i>187.19</i>	<i>115.53</i>	<i>...</i>	<i>115.53</i>	<i>202.00</i>	<i>...</i>	<i>202.00</i>
Flood Control										
14. Central Water Commission	2711	27.87	32.88	60.75	25.87	31.53	57.40	17.62	32.07	49.69
	4711	3.50	...	3.50	3.50	...	3.50	3.00	...	3.00
	<i>Total</i>	<i>31.37</i>	<i>32.88</i>	<i>64.25</i>	<i>29.37</i>	<i>31.53</i>	<i>60.90</i>	<i>20.62</i>	<i>32.07</i>	<i>52.69</i>
15. Flood control works in										
Brahmaputra Valley										
15.01 Grants-in-aid to Brahmaputra										
Board	2711	20.00	...	20.00	20.00	...	20.00	...	...	...
15.02 Grants-in-aid for Flood Control										
works in Brahmaputra and										
Barak Valley	3601	25.00	...	25.00	25.00	...	25.00	...	...	...
	7601	...	...	...	...	...	...	...	...	...
	<i>Total</i>	<i>25.00</i>	<i>...</i>	<i>25.00</i>	<i>25.00</i>	<i>...</i>	<i>25.00</i>	<i>...</i>	<i>...</i>	<i>...</i>
Total : Flood Control Works in										
Brahmaputra Vally		45.00	...	45.00	45.00	...	45.00	...	...	...
16. Flood Control Works in States										
16.01 Grants for Flood Proofing										
Programmes	3601	1.00	...	1.00	0.50	...	0.50	1.50	...	1.50

<i>(In crores of Rupees)</i>										
	Major Head	Budget 2001-2002			Revised 2001-2002			Budget 2002-2003		
		Plan	Non-Plan	Total	Plan	Non-Plan	Total	Plan	Non-Plan	Total
16.02 Critical anti-erosion works in Ganga Basin States	3601	20.00	...	20.00	25.77	...	25.77	23.00	...	23.00
	5075	...	...	...	...	...	...	2.00	...	2.00
	<i>Total</i>	<i>21.00</i>	...	<i>21.00</i>	<i>26.27</i>	...	<i>26.27</i>	<i>26.50</i>	...	<i>26.50</i>
17. Emergent flood protection works in Eastern & Western Sectors	7601	...	3.00	3.00	...	3.00	3.00	...	3.00	3.00
18. Other Schemes of Flood Control										
18.01 Ganga Flood Control Commission	2711	2.09	...	2.09	2.05	...	2.05	2.30	...	2.30
18.02 Maintenance of Flood Protection Works of Kosi and Gandak Projects	2711	3.71	...	3.71	3.91	...	3.91	4.00	...	4.00
18.03 Pagladia Dam Project	2711	27.00	...	27.00	17.50	...	17.50	...	...	...
18.04 Others	2711	2.85	...	2.85	4.24	...	4.24	0.10	...	0.10
	3601	5.00	...	5.00	4.00	...	4.00	7.50	...	7.50
	<i>Total</i>	<i>7.85</i>	...	<i>7.85</i>	<i>8.24</i>	...	<i>8.24</i>	<i>7.60</i>	...	<i>7.60</i>
Total : Other Schemes of Flood Control		40.65	...	40.65	31.70	...	31.70	13.90	...	13.90
19. Cooperation with Neighbouring Countries										
19.01 Observations on rivers common with Bangladesh and Neighbouring Countries	2711	1.00	...	1.00	0.50	...	0.50	4.00	...	4.00
19.02 Survey and Investigation of Kosi High Dam Project	2711	1.00	...	1.00	0.50	...	0.50	1.00	...	1.00
19.03 Pancheswar Multipurpose Projects	2711	8.35	...	8.35	7.17	...	7.17	5.00	...	5.00
19.04 Manas Teesta Link Canal	2711	0.48	...	0.48	0.44	...	0.44	...	...	...
Total : Cooperation with Neighbouring Countries		10.83	...	10.83	8.61	...	8.61	10.00	...	10.00
Total - Flood Control		148.85	35.88	184.73	140.95	34.53	175.48	71.02	35.07	106.09
Other Transport Services										
20. Farakka Barrage Project	3075	...	22.47	22.47	...	21.70	21.70	...	22.09	22.09
	5075	21.50	-1.00	20.50	20.00	-1.00	19.00	25.00	-1.00	24.00
	<i>Total</i>	<i>21.50</i>	<i>21.47</i>	<i>42.97</i>	<i>20.00</i>	<i>20.70</i>	<i>40.70</i>	<i>25.00</i>	<i>21.09</i>	<i>46.09</i>
21. Non-Plan loan to Public Enterprises										
21.01 National Projects Construction Corp. Ltd.	6701	...	14.00	14.00	...	32.00	32.00	...	14.00	14.00
22. Investments in Public Enterprises/ Financial Institutions										
22.01 National Projects Construction Corporation	6701	1.00	...	1.00	...	...	...	1.00	...	1.00
23. Provision under schemes for the benefit of North Eastern States and Sikkim	2552	...	...	...	0.01	...	0.01	80.00	...	80.00
	<i>Total</i>	...	...	...	<i>0.01</i>	...	<i>0.01</i>	<i>80.00</i>	...	<i>80.00</i>
Grand Total		500.00	228.37	728.37	450.00	240.35	690.35	550.00	226.75	776.75
B. Investment in Public Enterprises	Head of Dev.	Budget Support	I.E.B.R	Total	Budget Support	I.E.B.R	Total	Budget Support	I.E.B.R	Total
22.01 National Projects Construction Corp. Ltd.	12701	1.00	...	1.00	...	...	...	1.00	...	1.00
22.02 WAPCOS (Issue of Bonus Shares)	12701	...	...	...	...	...	...	...	...	...
	<i>Total</i>	<i>1.00</i>	...	<i>1.00</i>	...	...	...	<i>1.00</i>	...	<i>1.00</i>
C. Plan Outlay										
Central Plan										
1. Secretariat-Economic services	13451	1.74	...	1.74	1.68	...	1.68	2.02	...	2.02
2. Major and Medium Irrigation	12701	56.14	...	56.14	49.65	...	49.65	60.80	...	60.80
3. Minor Irrigation	12702	84.58	...	84.58	122.18	...	122.18	109.16	...	109.16
4. Command Area Development	12705	187.19	...	187.19	115.53	...	115.53	202.00	...	202.00
5. Flood Control	12711	148.85	...	148.85	140.95	...	140.95	71.02	...	71.02
6. Other Transport Services	13075	21.50	...	21.50	20.00	...	20.00	25.00	...	25.00
7. North Eastern Areas	22552	...	...	...	0.01	...	0.01	80.00	...	80.00
	<i>Total</i>	<i>500.00</i>	...	<i>500.00</i>	<i>450.00</i>	...	<i>450.00</i>	<i>550.00</i>	...	<i>550.00</i>

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. Outlay for Central Water Commission is Rs.22.62 crore. This includes Rs.1.50 crore for North-Eastern Region and Sikkim.

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.

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:** These 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.

Non-Plan grants to States:

9. **Assistance for Sutlej-Yamuna Link Canal Project:** A provision of Rs.8.00 crore has been made for this project in Budget Estimates 2002-2003.

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.

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

13. **Command Area Development Programme:** The Command Area Development Programme, launched by the Government in 1974-75 as a Centrally Sponsored Scheme, is designed to bring about optimum utilisation of the available water, as also to bridge the gap between the irrigation potential created and ultimately utilised. The financing of the CAD Programme is from three sources, viz., Central Assistance, State Government's own resources and institutional credit. Under this programme, grants are given to State Governments for preparation, planning, implementation and supervision of on-farm development works, warabandi, training and evaluation studies and Reclamation of water-logged areas, etc. Grants are also given on matching basis for subsidy of loans to small and marginal farmers on the IRDP pattern for land leveling and shaping, sprinklers and drip irrigation. Assistance under this programme is generally for Major and Medium Irrigation projects. However, for the States of North East, Himachal Pradesh, Jammu & Kashmir and Sikkim, the assistance is also available for Minor Irrigation projects or a cluster of Minor Irrigation projects covering an area of about 250 ha. or above. This also includes provision for Research & Development. The outlay for this programme for 2002-2003 is Rs.202.00 crore.

Flood Control

14. **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, Tapti, 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. Outlay for Central Water Commission is Rs.20.62 crore.

15. Flood Control Works in Brahmaputra Valley

15.01 **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. Entire provision of Rs.20.00 crore, appearing under item No.23, is for North Eastern Region.

15.02 **Assistance for flood control works in Brahmaputra and Barak Valley:** Central assistance would be provided during 2002-2003 for execution of flood control works in Brahmaputra and Barak Valley. This would be in the form of grant. An amount of Rs. 10.00 crore, appearing under Item No.23, has been provided for this purpose in 2002-2003. Entire outlay is meant for North Eastern Region.

16. Flood Control Works in States

16.01 **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. An outlay of Rs.1.50 crore has been made in Budget Estimates 2002-2003.

16.02 Critical Anti-erosion Works in Ganga Basin States:

The provision of Rs.25.00 crore is meant for critical anti-erosion works in Ganga Basin States.

17. 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. An outlay of Rs.3.00 crore has been made in Budget Estimates 2002-2003.

18. 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 Indo-Nepal Schemes, maintenance of flood protection works of Kosi and Gandak project, Pagladia Dam Project, Harrange Drainage Scheme, extension of embankments on Lalbakeya, Kamla, Bagmati and Khando Rivers, critical anti-erosion works in coastal & other than Ganga Basin States, Improvement of drainage in Mokama Group of Tals in the Kiul-Arohar River System in Ganga River Basin and new schemes for Majuli island in Assam, Dihang Project, etc. Outlay for other schemes of Flood Control is Rs.13.90 crore. Provision of Rs.45.00 crore for Pagladia Project and Rs.5.00 crore for Harrange Drainage Scheme, which are for the benefit of North-Eastern Region and Sikkim, has been shown against Item No.23.

19. 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.

Transport Sector

20. 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.

21. Non-Plan Loan to Public Enterprises

21.1 National Projects Construction Corporation Limited: Provision of Rs.14.00 crore is for Non-Plan loan to National Projects Construction Corporation Ltd. to enable it to make payment of salaries and wages to its employees of idle units.

22. Investment in Public Enterprises/Financial Institutions

22.01 National Projects Construction Corporation Ltd.: This is a joint venture of the Central and State Governments and is engaged in the construction of multi-purpose river valley projects, hydro-electric projects, thermal power projects and irrigation projects. There is a provision of Rs.1.00 crore under Plan during 2002-2003.

23. Provison under schemes for the benefit of North-Eastern States and Sikkim: Budget provision of Rs.80.00 crore is meant for Brahmaputra Board (Rs.20.00 crore), Flood Control in Brahmaputra and Barak Valley (Rs.10.00 crore), Pagladiya Project (Rs.45.00 crore) and Harrange Drainage Scheme (Rs.5.00 crore).