

**MINISTRY OF POWER****DEMAND NO. 64****Ministry of Power**

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

*(In crores of Rupees)*

Major Head	Budget 2000-2001			Revised 2000-2001			Budget 2001-2002			
	Plan	Non-Plan	Total	Plan	Non-Plan	Total	Plan	Non-Plan	Total	
Revenue	461.70	55.74	517.44	521.04	51.75	572.79	517.91	53.80	571.71	
Capital	2639.27	...	2639.27	2644.46	...	2644.46	2770.09	...	2770.09	
<b>Total</b>	<b>3100.97</b>	<b>55.74</b>	<b>3156.71</b>	<b>3165.50</b>	<b>51.75</b>	<b>3217.25</b>	<b>3288.00</b>	<b>53.80</b>	<b>3341.80</b>	
1. Secretariat-Economic Services	3451	0.25	7.44	7.69	0.25	7.25	7.50	0.50	7.53	8.03
Power										
General										
2. Central Electricity Authority	2801	9.25	36.45	45.70	6.78	33.36	40.14	13.04	34.92	47.96
	4801	5.81	...	5.81	3.17	...	3.17	7.41	...	7.41
<i>Total</i>		<i>15.06</i>	<i>36.45</i>	<i>51.51</i>	<i>9.95</i>	<i>33.36</i>	<i>43.31</i>	<i>20.45</i>	<i>34.92</i>	<i>55.37</i>
3. Research and Development										
3.01 Central Power Research Institute, Bangalore	2801	13.70	...	13.70	13.70	...	13.70	8.37	...	8.37
3.02 Fundamental & Basic Research	2801	...	...	...	...	...	...	...	...	...
<i>Total</i>		<i>13.70</i>	<i>...</i>	<i>13.70</i>	<i>13.70</i>	<i>...</i>	<i>13.70</i>	<i>8.37</i>	<i>...</i>	<i>8.37</i>
4. Training										
4.01 National Power Training Institute(NPTI)	2801	2.50	4.35	6.85	2.50	4.44	6.94	6.37	4.65	11.02
5. Energy Conservation/EMC	2801	15.25	...	15.25	3.00	...	3.00	9.88	...	9.88
6. Setting up of State Electricity Regulatory Comn.	2801	0.50	...	0.50	...	...	...	0.50	...	0.50
7. Electricity Development Fund	2801	0.50	...	0.50	...	...	...	...	...	...
8. Incentives Schemes for better performance of TPS/reduction in T&D losses	3601	4.75	...	4.75	4.75	...	4.75	9.25	...	9.25
9. Central Electricity Regulatory Commission	2801	...	6.50	6.50	...	5.70	5.70	...	5.70	5.70
	4801	...	...	...	...	...	...	...	...	...
<i>Total</i>		<i>...</i>	<i>6.50</i>	<i>6.50</i>	<i>...</i>	<i>5.70</i>	<i>5.70</i>	<i>...</i>	<i>5.70</i>	<i>5.70</i>
10. Interest Subsidy to Power Finance Corporation	2801	300.00	...	300.00	299.06	...	299.06	350.00	...	350.00
11. Interest Subsidy to REC	2801	...	...	...	16.67	...	16.67	10.00	...	10.00
12. Grant to Powergrid	2801	50.00	...	50.00	50.00	...	50.00	40.00	...	40.00
13. Electrification of Tribal villages in NE States	2801	...	...	...	12.53	...	12.53	...	...	...
14. Sub-transmission & distribution works in the NE Region and Sikkim	3601	...	...	...	46.80	...	46.80	...	...	...
<i>Total-General</i>		<i>402.26</i>	<i>47.30</i>	<i>449.56</i>	<i>458.96</i>	<i>43.50</i>	<i>502.46</i>	<i>454.82</i>	<i>45.27</i>	<i>500.09</i>
<i>Thermal Power Generation</i>										
15. Badarpur thermal Power Station										
15.01 Revenue Expenditure	2801	...	701.00	701.00	...	956.00	956.00	...	971.00	971.00
15.02 Less Revenue Receipts	2801	...	-700.00	-700.00	...	-955.00	-955.00	...	-970.00	-970.00
15.03 Net Expenditure		...	1.00	1.00	...	1.00	1.00	...	1.00	1.00
15.04 Expansion of Badarpur Thermal Power Station	4801	10.00	...	10.00	10.70	...	10.70	9.31	...	9.31
<i>Total</i>		<i>10.00</i>	<i>1.00</i>	<i>11.00</i>	<i>10.70</i>	<i>1.00</i>	<i>11.70</i>	<i>9.31</i>	<i>1.00</i>	<i>10.31</i>
<i>Hydel Generation</i>										
16. Hydel Projects										
16.01 Sardar Sarover Project	4801	36.38	...	36.38	36.38	...	36.38	36.27	...	36.27
<i>Transmission and Distribution</i>										
17. Rural Electrification Corporation(kutir Jyoti)	2801	65.00	...	65.00	65.00	...	65.00	63.00	...	63.00
18. Load Despatching Stations	4801	...	...	...	0.05	...	0.05	0.15	...	0.15
19. Flexible AC Transmission System	4801	2.00	...	2.00	2.00	...	2.00	...	...	...
<i>Total</i>		<i>67.00</i>	<i>...</i>	<i>67.00</i>	<i>67.05</i>	<i>...</i>	<i>67.05</i>	<i>63.15</i>	<i>...</i>	<i>63.15</i>
20. Inter State Transmission Lines										
20.01 Loans to State Governments	7601	10.00	...	10.00	10.00	...	10.00	...	...	...
21. Sub-transmission & distribution works in the NE Region and Sikkim	7601	...	...	...	5.20	...	5.20	...	...	...
22. Projects/Schemes for the development of N.E.Region & Sikkim	2552	...	...	...	...	...	...	7.00	...	7.00
	4552	...	...	...	...	...	...	464.70	...	464.70

(In crores of Rupees)

Major Head	Budget 2000-2001			Revised 2000-2001			Budget 2001-2002			
	Plan	Non-Plan	Total	Plan	Non-Plan	Total	Plan	Non-Plan	Total	
23. Rural Electrification Corporation (State Plan)	4801	...	...	50.00	...	50.00	50.00	...	50.00	
	6801	460.00	...	410.00	...	410.00	410.00	...	410.00	
	<i>Total</i>	<i>460.00</i>	<i>...</i>	<i>460.00</i>	<i>...</i>	<i>460.00</i>	<i>460.00</i>	<i>...</i>	<i>460.00</i>	
<i>Total-Power</i>		985.64	48.30	1033.94	1048.29	44.50	1092.79	1495.25	46.27	1541.52
24. Investments in Public Enterprises	4801	1217.00	...	1217.00	1252.00	...	1252.00	1579.49	...	1579.49
	6801	898.08	...	898.08	864.96	...	864.96	212.76	...	212.76
	<i>Total</i>	<i>2115.08</i>	<i>...</i>	<i>2115.08</i>	<i>2116.96</i>	<i>...</i>	<i>2116.96</i>	<i>1792.25</i>	<i>...</i>	<i>1792.25</i>
<b>Grand Total</b>		<b>3100.97</b>	<b>55.74</b>	<b>3156.71</b>	<b>3165.50</b>	<b>51.75</b>	<b>3217.25</b>	<b>3288.00</b>	<b>53.80</b>	<b>3341.80</b>
B. Investments 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
24.01 National Thermal Power Corporation	12801	116.98	2422.42	2539.40	116.98	2350.02	2467.00	...	3006.00	3006.00
24.02 National Hydro Electric Power Corporation	12801	620.00	644.16	1264.16	690.00	453.36	1143.36	943.25	631.64	1574.89
24.03 Power Finance Corporation	12801	11.00	...	11.00	11.00	...	11.00	...	...	...
24.04 Damodar Valley Corporation	12801	...	459.90	459.90	...	100.00	100.00	...	284.00	284.00
24.05 North Eastern Electric Power Corporation	12801	122.00	133.26	255.26	122.00	60.00	182.00	...	86.72	86.72
24.06 Nathpa Jhakri Power Corporation	12801	562.00	390.00	952.00	562.00	295.00	857.00	562.00	332.00	894.00
24.07 Tehri Hydro Development Corporation	12801	386.00	362.57	748.57	351.00	295.34	646.34	200.00	1028.17	1228.17
24.08 Power Grid Corporation	12801	108.10	2666.90	2775.00	74.98	2086.16	2161.14	...	2869.00	2869.00
24.09 Rural Electrification Corporation	12801	189.00	...	189.00	189.00	...	189.00	37.00	...	37.00
24.10 Power Trading Corporation	12801	...	...	...	...	...	...	50.00	...	50.00
	<i>Total</i>	<i>2115.08</i>	<i>7079.21</i>	<i>9194.29</i>	<i>2116.96</i>	<i>5639.88</i>	<i>7756.84</i>	<i>1792.25</i>	<i>8237.53</i>	<i>10029.78</i>
<b>C.PLAN OUTLAY</b>										
Central Sector Plan										
Power	12801	2640.97	7079.21	9720.18	2705.50	5639.88	8345.38	2356.30	8237.53	10593.83
North Eastern Areas	22552	...	...	...	...	...	...	471.70	...	471.70
State Plans										
	43601	460.00	...	460.00	460.00	...	460.00	460.00	...	460.00
<b>Total</b>		<b>3100.97</b>	<b>7079.21</b>	<b>10180.18</b>	<b>3165.50</b>	<b>5639.88</b>	<b>8805.38</b>	<b>3288.00</b>	<b>8237.53</b>	<b>11525.53</b>

1. **Secretariat** : Provision is for expenditure on the Secretariat of Ministry of Power.

2. **Central Electricity Authority** : The Central Electricity Authority coordinates the activities of the various agencies in relation to control and utilisation of national power resources. It is also responsible for carrying out survey and studies, collection and recording of data concerning generation, distribution, utilisation and development of power resources. Provision has been made for expenditure on Technical Control, Planning and Monitoring, Training, Designs & Consultancy, Regional coordination etc.

3. **Research and Development** : Central Power Research Institute Bangalore is engaged in research on power. CPRI serves as a National Laboratory for applied research in the field of electrical power and also functions as an independent authority for testing, evaluation and certification of electrical equipment and components.

4. **Training** : Provides for expenditure on National Power Training Institute which is engaged in imparting training in various aspects of power stations, operation and maintenance.

5. **Energy Conservation** : Provides for expenditure on Energy Conservation activities which includes promotional activities like energy audits, demonstration projects, studies,

training, awareness campaign etc.

6. **Setting up of SERC** : For setting up Regulatory Commission in North Eastern Region.

8. **Incentive Scheme for better performance of Thermal Power Stations** : The provision is intended for better performance of thermal power stations and scheme for incentive award for efficient & economic operation of thermal power stations as well as reduction in T&D losses.

9. **Central Electricity Regulatory Commission** : Provides for expenditure on rationalisation of tariff and other related matters.

12. **Grant-in-aid to Powergrid** : For transmission projects in North Eastern States.

15. **Badarpur Thermal Power Station** :

15.01, 02, 03 & 04 : The Management of Badarpur Thermal Power Station which is owned by Government of India, is being managed by NTPC on an agency basis. All the five units in Stage I, II and III are under commercial operation. Provision has also been made for expenditure on residual works of Badarpur Thermal Power Project.

17. **Kutir Jyoti Programme:** In order to improve the quality of rural population living below poverty line including Harijans and Adivasi families, Central Government launched the "Kutir Jyoti" scheme in 1989 for extending single point light connection to the house holds of the poor section of the society. By the end of March, 1999, 33.58 lakh single point light connections were released to the rural poor including Adivasis and Harijans. During 1999-2000, 1.98 Lakh connections were released upto December, 1999.

20. **Inter State Transmission Lines :** The Scheme relates to construction of Inter-State/Inter-Regional links to connect the contiguous power system and operate them in an inter connected/integrated manner with a view to facilitate the formation of regional grids, leading ultimately to an All India Grid. The schemes are executed through loans to State and Union Territories.

22. A provision of Rs. 471.70 crore has been earmarked for specific projects/Schemes in the North-Eastern Region and Sikkim.

23. **Rural Electrification Corporation for State Plan :** REC was set up in July, 1969 as a Government owned company with the principal objective of financing rural electrification schemes and promoting rural electric cooperatives. Provision has been made for providing Budgetary support to the Corporation by way of equity and loans for its activities.

#### 24. Investment in Public Enterprises :-

24.01 **National Thermal Power Corporation (NTPC) :** NTPC was set up in November, 1975 in Central Sector as a thermal power generating company, with the main objective of construction of Super Thermal Power Projects at Coalpit heads. The Corporation has commissioned a total capacity of 19435 MW as on 31.12.2000. NTPC is presently operating and executing 12 thermal power projects and 7 gas based combined cycle power projects with a total approved capacity of 22495 MW.

24.02 **National Hydro-electric Power Corporation (NHPC) :** National Hydro-electric Power Corporation (NHPC) was set up in 1975 with a view to securing speedy, efficient and economical completion and operation of hydro electric projects in the central sector. The Corporation has so far completed construction of 7 Hydro-electric Projects, and added 2193 MW of generating capacity till the end of March, 2000 by way of completion of these projects. The Corporation is presently engaged in the construction of Dulhasti project (390 MW) in J&K, Dhauliganga Project Stage-I (280 MW) in U.P. and Chamera stage-II (300 MW) in Himachal Pradesh. The corporation has also taken up the construction of Teesta Stage-V (510 MW) in Sikkim, Loktak Downstream (90 MW), Parbati-II (800 MW). The NHPC is also executing Kalpong and Kurichu projects on agency basis and Indra Sagar project as Joint Venture.

24.03 **Power Finance Corporation(PFC):** The PFC was incorporated in 1986, with the objective of providing term finance

for Power generation projects. Under the Accelerated Generation and Supply Programme (AG&SP), PFC provides assistance to power utilities at concessional lending rates through the interest subsidy given by Central Government for modernization & renovation of existing thermal power stations and life extension of power stations. Transmission and Distribution schemes, system improvement and generation projects expected to bring additional capacity.

24.04 **Damodar Valley Corporation (DVC) :** DVC was established in July, 1948 for the promotion and operation of irrigation, water supply, drainage, generation, transmission and distribution of thermal and hydro-electric power. Presently DVC is executing Mejia Thermal Power Project (3 x 210 MW) in West Bengal. Unit-I has been brought under commercial operation with effect from 1st December, 1997. Unit-II achieved synchronization with oil on 24th March, 1997 and with coal on 31st March, 1998. Unit-III achieved synchronization with oil on 25th March, 1998 and with coal firing on 17th October, 1998.

24.05 **North Eastern Electric Power Corporation (NEEPCO) :** NEEPCO set up in 1976 as a Power Development Agency in the North Eastern Region has a total installed capacity of 625 MW comprising of Assam Gas based combined cycle Power project 291 MW, Kopili HE Project-250 MW and Agartala Gas Turbine Project-84 MW. At present, the corporation is engaged in executing Tuirial HE project 60 MW in Mizoram and Kopili HE project Stage-II (25 MW) in Assam under the Central Sector and Doyang HE Project - 75 MW in Nagaland and Ranganadi Project (405 MW) in Arunachal Pradesh under the North Eastern Council, Ministry of Home Affairs. In addition Kameng HE Project (210 MW) in Arunachal Pradesh, Tuivai HE Project (210 MW) in Mizoram, Tipaimukh HE Project (1500 MW) in Manipur and Lower Kopili HE Project (150 MW) in Assam are the new projects proposed to be taken up by NEEPCO during the 9th Five Year Plan.

24.06 **Nathpa-Jhakri Power Corporation(NJPC) :** Nathpa Jhakri Power Corporation was incorporated in May, 1988 to plan, promote, organise, execute, operate and maintain hydro electric power projects in the Satluj basin in Himachal Pradesh. The corporation is presently executing Nathpa Jhakri HEP (1500 MW). The project is a Joint Venture of the Government of India and Government of Himachal Pradesh. The two partners will share the cost of the project in the ratio of 75: 25 respectively.

24.07 **Tehri Hydro Development Corporation (THDC) :** Tehri Hydro Development Corporation was incorporated as a joint venture of Government of India and Government of Uttar Pradesh in July, 1988 for integrated and efficient utilisation of the hydro resources of Bhagirathi river and its tributaries at Tehri and down stream. THDC has been assigned the execution of Tehri Hydro Complex (2400 MW) comprising, a) Tehri Dam and HE Project Stage-I (1000 MW), b) Koteshwar Dam and HE Project (400 MW) and c) Tehri Pump Storage Project (1000 MW). Presently the Corporation is executing Tehri Dam

and HE Project Stage-I (1000 MW) which is expected to be commissioned by the year 2002. The Corporation has taken up the Koteswar Dam HE Project (400 MW).

**24.08 Power Grid Corporation:** The Power Grid Corporation of India Limited was incorporated in 1989 to establish and operate the regional and national grid to facilitate transfer of power within and across the regions with reliability, security and economy on sound commercial principles. As per Acts passed by the Parliament, the transmission systems of NTPC, NHPC, NEEPCO and NLC were transferred with effect from April, 1992 to PGCIL. As on 31st March, 1999, Powergrid operates a total of 35119 Ckms. Transmission lines consisting of 26293 Ckms of 400 KV, 5931 Ckms. of 220 KV, 1265 Ckms. of 132 KV and 1630 Ckms. of HVDC system distributed over 60 sub-stations with 28820 MVA of transformation capacity. Presently, about 5479

Ckms. of transmission lines with voltage levels varying from 132 KV to 800KV and 9 sub-stations including associated bays are under construction. Keeping in view the importance of HVDC links, PGCIL has drawn up a programme for inter-connecting the various power regions of the country through these links during the 9th Plan.

**24.09 R.E.C. - System Improvement :** The provision is intended for financing system improvement & small hydel projects in nine states through REC with OECF assistance. This will help in reducing line losses and improve the quality of supply, through Power System improvement projects. Small hydel projects will help in augmenting power generation in local areas.

**24.10** A provision of Rs. 50 crores as equity investment has been made for Power Trading Corporation.