

MINISTRY OF POWER

DEMAND NO. 75

Ministry of Power

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

<i>(In crores of Rupees)</i>													
Major Head	Actual 2009-2010			Budget 2010-2011			Revised 2010-2011			Budget 2011-2012			
	Plan	Non-Plan	Total	Plan	Non-Plan	Total	Plan	Non-Plan	Total	Plan	Non-Plan	Total	
Revenue	4951.38	-209.29	4742.09	6201.16	-155.13	6046.03	5425.38	-173.46	5251.92	6779.84	-135.01	6644.83	
Capital	1552.76	...	1552.76	4428.84	...	4428.84	3299.84	...	3299.84	2862.16	...	2862.16	
Total	6504.14	-209.29	6294.85	10630.00	-155.13	10474.87	8725.22	-173.46	8551.76	9642.00	-135.01	9506.99	
1. Secretariat-Economic Services	3451	1.00	20.96	21.96	1.00	21.79	22.79	1.00	21.79	22.79	1.00	24.10	25.10
2. <i>Waiver of Guarantee fee</i>													
2.01 National Hydro Electric Power Corporation Ltd.	2075	...	75.74	75.74	...	...	...	...	...	...	...	...	...
2.02 Less Receipts Netted	0075	...	-75.74	-75.74	...	...	...	...	...	...	...	...	...
<i>Net</i>		...	...	...	...	...	...	...	...	...	...	...	...
Power													
General													
3. Central Electricity Authority	2801	5.71	71.29	77.00	12.16	65.64	77.80	5.59	69.01	74.60	13.18	77.03	90.21
	4801	1.30	...	1.30	2.84	...	2.84	2.84	...	2.84	3.05	...	3.05
	<i>Total</i>	<i>7.01</i>	<i>71.29</i>	<i>78.30</i>	<i>15.00</i>	<i>65.64</i>	<i>80.64</i>	<i>8.43</i>	<i>69.01</i>	<i>77.44</i>	<i>16.23</i>	<i>77.03</i>	<i>93.26</i>
4. <i>Research and Development</i>													
4.01 Central Power Research Institute, Bengaluru	2801	41.50	...	41.50	78.18	...	78.18	61.52	...	61.52	163.40	...	163.40
5. <i>Training</i>													
5.01 National Power Training Institute (NPTI)	2801	20.00	1.90	21.90	20.00	6.40	26.40	17.00	6.40	23.40	16.89	6.40	23.29
6. Setting up of JERC for Manipur & Mizoram	2801	0.82	...	0.82	1.25	...	1.25	1.25	...	1.25	2.38	...	2.38
7. Central Electricity Regulatory Commission	2801	...	4.00	4.00	...	4.00	4.00	...	...	...	...	...	...
7.01 CERC Fund													
7.01.01 CERC Fund	2801	...	...	...	...	...	...	...	31.80	31.80	...	31.48	31.48
7.01.02 Amount met from CERC Fund	2801	...	...	...	...	...	...	...	-31.80	-31.80	...	-31.48	-31.48
<i>Net</i>		...	...	...	...	...	...	...	...	...	...	...	...
<i>Total- Central Electricity Regulatory Commission</i>		...	<i>4.00</i>	<i>4.00</i>	...	<i>4.00</i>	<i>4.00</i>	...	...	...	...	...	...
8. <i>National Investment Fund (NIF)</i>													
8.01 Transfer to National Investment Fund	2801	3158.00	...	3158.00	5052.00	...	5052.00	2052.00	...	2052.00	5052.00	...	5052.00

(In crores of Rupees)

	Major Head	Actual 2009-2010			Budget 2010-2011			Revised 2010-2011			Budget 2011-2012			
		Plan	Non-Plan	Total	Plan	Non-Plan	Total	Plan	Non-Plan	Total	Plan	Non-Plan	Total	
8.02	Amount met from NIF for Subsidy for Rural Electrification - RGGVY	2801	-3100.00	...	-3100.00	-5000.00	...	-5000.00	-2000.00	...	-2000.00	-5000.00	...	-5000.00
8.03	Amount met from NIF for APDRP	2801	-58.00	...	-58.00	-52.00	...	-52.00	-52.00	...	-52.00	-52.00	...	-52.00
	<i>Net</i>		...	...	...	...	...	...	...	...	...	...	...	...
9.	Subsidy for Rural Electrification-RGGVY	2801	5000.00	...	5000.00	4852.00	...	4852.00	4429.58	...	4429.58	5326.70	...	5326.70
10.	Consultancy Charges for APDRP Project	2801	10.52	...	10.52	19.48	...	19.48	19.44	...	19.44	...	...	...
11.	Funds for Evaluation Studies and Consultancy	2801	0.07	...	0.07	1.00	...	1.00	0.50	...	0.50	1.00	...	1.00
12.	Appellate Tribunal for Electricity	2801	...	5.29	5.29	...	6.95	6.95	...	7.95	7.95	...	8.50	8.50
13.	Setting up of Joint JERC for UTs and Goa	2801	...	3.00	3.00	...	4.00	4.00	...	4.00	4.00	...	4.00	4.00
14.	Comprehensive Award Scheme for Power Sector	2801	0.54	...	0.54	0.75	...	0.75	0.75	...	0.75	0.82	...	0.82
15.	Energy Conservation	2801	18.00	...	18.00	143.94	...	143.94	127.24	...	127.24	130.80	...	130.80
16.	Bureau of Energy Efficiency	2801	57.84	...	57.84	66.92	...	66.92	61.84	...	61.84	123.80	...	123.80
17.	APDRP	2801	1.26	...	1.26	100.00	...	100.00	100.00	...	100.00	75.00	...	75.00
18.	Assistance to Forum of Regular Capicity Building	2801	1.95	...	1.95	2.00	...	2.00	2.00	...	2.00	2.00	...	2.00
19.	World Bank Grant under PHRD to THDC	2801	0.01	...	0.01	...	...	...	0.41	...	0.41	...	...	...
20.	Loan to PFC for APDRP	6801	1331.46	...	1331.46	3230.00	...	3230.00	2213.90	...	2213.90	1755.60	...	1755.60
21.	Interest Subsidy to National Electricity Fund	2801	...	...	...	227.64	...	227.64	...	...	...	249.57	...	249.57
22.	Interest Subsidy to NTPC (AGNSP)	2801	...	...	...	26.84	...	26.84	26.84	...	26.84	...	...	...
23.	Acquisition of Coal bearing Areas for NTPC	4801	27.00	...	27.00	...	...	...	710.65	...	710.65	489.93	...	489.93
23.01	Deduct Recoveries	4801	-27.00	...	-27.00	...	...	...	-710.65	...	-710.65	-489.93	...	-489.93
	<i>Net</i>		...	...	...	...	...	...	...	...	...	...	...	...
Total-General			6490.98	85.48	6576.46	8785.00	86.99	8871.99	7070.70	87.36	7158.06	7864.19	95.93	7960.12
Thermal Power Generation														
24.	<i>Badarpur Thermal Power Station</i>													
24.01	Revenue Expenditure	2801	...	32.10	32.10	...	24.80	24.80	...	5.54	5.54	...	17.65	17.65
24.02	Less Revenue Receipts	0801	...	-342.27	-342.27	...	-288.71	-288.71	...	-288.15	-288.15	...	-272.69	-272.69
	<i>Net</i>		...	-310.17	-310.17	...	-263.91	-263.91	...	-282.61	-282.61	...	-255.04	-255.04
Transmission and Distribution														
25.	<i>Lumpsum provision for Project/Schemes for the benefit of NE Region & Sikkim</i>													
25.01	Subsidy for Rural Electrification-RGGVY	2552	...	...	...	648.00	...	648.00	570.42	...	570.42	673.30	...	673.30
25.02	Loan to PFC under APDRP	6552	...	...	...	370.00	...	370.00	257.10	...	257.10	203.40	...	203.40

(In crores of Rupees)

	Major Head	Actual 2009-2010			Budget 2010-2011			Revised 2010-2011			Budget 2011-2012			
		Plan	Non-Plan	Total	Plan	Non-Plan	Total	Plan	Non-Plan	Total	Plan	Non-Plan	Total	
25.03	Investment in Public Enterprises in N.E. Region	4552	...	...	...	45.00	...	45.00	45.00	...	45.00	87.50	...	87.50
	<i>Total- Lumpsum provision for Project/Schemes for the benefit of NE Region & Sikkim</i>		...	...	...	1063.00	...	1063.00	872.52	...	872.52	964.20	...	964.20
Total-Power			6490.98	-224.69	6266.29	9848.00	-176.92	9671.08	7943.22	-195.25	7747.97	8828.39	-159.11	8669.28
26.	<i>Investment in Public Enterprises other than NE Region</i>													
26.01	Investment in North Eastern Electric Power Corporation Ltd.	4801	35.00	...	35.00	...	...	...	...	...	...	...	...	...
26.02	Loans for Power Projects	6801	185.00	...	185.00	781.00	...	781.00	781.00	...	781.00	812.61	...	812.61
	<i>Total- Investment in Public Enterprises other than NE Region</i>		220.00	...	220.00	781.00	...	781.00	781.00	...	781.00	812.61	...	812.61
Power														
	General													
27.	Actual Recoveries	2801	-207.84	-5.56	-213.40	...	...	...	...	...	...	...	...	...
Grand Total			6504.14	-209.29	6294.85	10630.00	-155.13	10474.87	8725.22	-173.46	8551.76	9642.00	-135.01	9506.99
		Head of Dev	Budget Support	IEBR	Total	Budget Support	IEBR	Total	Budget Support	IEBR	Total	Budget Support	IEBR	Total
B. Investment in Public Enterprises														
26.01	National Thermal Power Corporation Ltd.	12801	...	10467.13	10467.13	...	22350.00	22350.00	...	15820.00	15820.00	...	26400.00	26400.00
26.02	National Hydro Electric Power Corporation Ltd.	12801	185.00	3523.25	3708.25	781.00	4108.34	4889.34	781.00	3307.00	4088.00	812.61	4277.39	5090.00
26.03	Damodar Valley Corporation Ltd.	12801	...	7289.32	7289.32	...	8539.78	8539.78	...	4311.49	4311.49	...	5890.59	5890.59
26.04	North Eastern Electric Power Corporation Ltd. (North Eastern Region Component)	12801	35.00	258.96	293.96	45.00	841.30	886.30	45.00	443.31	488.31	87.50	949.77	1037.27
26.05	Satluj Jal Vidyut Nigam Ltd.	12801	...	407.16	407.16	...	525.17	525.17	...	545.45	545.45	...	1133.13	1133.13
26.06	Tehri Hydro Development Corporation Ltd.	12801	...	610.51	610.51	...	856.83	856.83	...	615.56	615.56	...	389.85	389.85
26.07	Power Grid Corporation of India Ltd.	12801	...	10617.45	10617.45	...	12900.00	12900.00	...	11900.00	11900.00	...	17700.00	17700.00
Total			220.00	33173.78	33393.78	826.00	50121.42	50947.42	826.00	36942.81	37768.81	900.11	56740.73	57640.84
C. Plan Outlay														
1.	Power	12801	6469.14	33173.78	39642.92	9567.00	50121.42	59688.42	7852.70	36942.81	44795.51	8677.80	56740.73	65418.53
2.	North Eastern Areas	22552	35.00	...	35.00	1063.00	...	1063.00	872.52	...	872.52	964.20	...	964.20
Total			6504.14	33173.78	39677.92	10630.00	50121.42	60751.42	8725.22	36942.81	45668.03	9642.00	56740.73	66382.73

1. **Secretariat:** Provision is made for expenditure on establishment matters for the Secretariat of the Ministry under various schemes.

3. **Central Electricity Authority:** The Central Electricity Authority coordinates the activities of the various agencies in relation to control and utilization of national power resources. It is

also responsible for carrying out the survey and studies, collection and recording of data concerning generation, distribution, utilization and development of power resources.

4. **Research & Development:** Central Power Research Institute, Bangalore 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.

5. **Training:** National Power Training Institute is engaged in imparting training in various aspects of power sector including operation and maintenance of power stations.

6. **Joint Electricity Regulatory Commission (JERC) for Manipur and Mizoram:** Pursuant to a Memorandum of Agreement signed by the State Governments of Manipur and Mizoram, authorizing the Central Government to constitute a Joint Electricity Regulatory Commission (JERC), the Central Government has constituted a JERC for these states under Section 83 of the Electricity Act 2003. The Central Government has also approved a plan scheme of financial assistance for meeting the recurring and non-recurring expenditure of the Commission during the first five years.

7. **Central Electricity Regulatory Commission:** Under the provision of the ERC Act, 1998, the Central Government had constituted the Central Electricity Regulatory Commission (CERC). The Central Commission continues as a statutory body under the Electricity Act, 2003, which has come into force with effect from 10th June, 2003.

9. **Rajiv Gandhi Grameen Vidyutikaran Yojana (RGGVY):** This scheme of Rural Electricity Infrastructure and Household Electrification has been introduced in April, 2005 for providing access to electricity to all rural households. As per census 2001, 44% of the rural households have access to electricity. Improvement of rural electricity infrastructure is essential to empower rural India and unleash its full growth potential. Rural Electrification Corporation (REC) is the nodal agency for the programme. Under the scheme, projects can be financed with 90% capital subsidy for provision of Rural Electricity Distribution Backbone (REDB), creation of Village Electrification Infrastructure (VEI) and Decentralised Distributed Generation and Supply. REDB, VEI and DDG would also cater to the requirement of agriculture and other activities. Under this scheme un-electrified Below Poverty Line (BPL) households will get electricity connection free of charge. The continuation of the scheme in XI Plan was sanctioned on 3rd January, 2008 with the capital subsidy of ₹ 28,000 Crore in Phase-I. To increase the coverage of small habitations, Government sanctioned electrification of habitations upto 100 population instead of 300.

11. **Funds for Evaluation Studies and Consultancy:** This provision is for conducting evaluation studies of various projects/programmes/ schemes.

12. **Appellate Tribunal for Electricity:** Under the provisions of Electricity Act, 2003, the Central Government has set up the Appellate Tribunal for Electricity. It hears appeals against the orders of the adjudicating officer or the Appropriate Commissions under the Electricity Act, 2003. Under the provisions of the Petroleum and Natural Gas Regulatory Board Act, 2006, APTEL is the Appellate Tribunal for the purpose of that Act.

13. **Joint Electricity Regulatory Commission (JERC) for UTs and Goa:** The Central Government has set up a Joint Electricity Regulatory Commission (JERC) for Goa and all Union Territories except Delhi. Expenditure of the Joint Commission shall be borne by the Central Government and the Government of Goa in the ratio of 6:1.

14. **Comprehensive Award Scheme:** Shields and Certificates are given away by the Ministry of Power to the generating stations, transmission and distribution utilities as well as rural distribution franchisees for recognizing meritorious performance in operation, project management and environmental protection.

15. **Energy Conservation:** The funds would be utilized for carrying out the Energy Conservation related activities i.e. National level awareness campaign, National Energy Conservation Awards and National level Painting Competition for children. This includes 8 National Missions which spell out long term and integrated strategies for achieving key goals. One of the Missions is National Mission for Enhanced Energy Efficiency. This is being pursued by MoP and Bureau of Energy Efficiency (BEE). To enhance energy efficiency, four new initiatives have been introduced in the National Mission for Enhanced Energy Efficiency (NMEEE) which are (i) A market based mechanism to enhance cost effectiveness of improvements in energy efficiency in energy-intensive large industries and facilities, through certification of energy savings that could be traded, (ii) Accelerating the shift to energy efficient appliances in designated sectors through innovative measures to make the products more affordable, (iii) Creation of mechanisms that would help finance demand side management programmes in all sectors by capturing future energy savings and (iv) Developing fiscal instruments to promote energy efficiency.

16. **Bureau of Energy Efficiency (BEE):** Funds would be provided to BEE for implementation of its various plan schemes. A number of Demand Side Measures (DSM) have been initiated by the Government to reduce the overall power consumption, improving efficiencies of ground water extraction, to reduce the subsidy burden of the states and energy cost incurred by the municipalities. Government has approved Bachat Lamp Yojana (BLY) scheme that seeks to promote energy efficient and high quality Compact Fluorescent Lamps (CFLs) as replacement of Incandescent Bulbs in households. A Standard and Labeling programme has been launched to promote to reduce end use consumption by applying standards & labeling for equipments/appliances and mandatory labeling. Further, the Energy Conservation Building Code (ECBC) has been launched to reduce energy consumption in commercial buildings. Government has also approved a scheme for the strengthening of State Designated Agencies (SDAs) for empowering the SDAs as partners of BEE at state level to implement Energy Conservation Act, 2001 (EC Act, 2001). Government has launched schemes for the Designated consumers and Small and Medium Enterprises (SMEs) programme for targeting energy consumption reduction of designated consumers and SMEs, capacity building of Energy Auditors & Managers and Contribution to SECF. The SECF is a statutory requirement and under EC Act. It is also one of the deliverables of SDAs Energy Conservation Action Plan (ECAP).

17 & 20. **Re-structured Accelerated Power Development Reforms Programme:** The focus of the programme is on actual, demonstrable performance in terms of AT&C loss reduction. Projects under the scheme would be taken up in two parts in urban areas-towns and cities with population of more than 30,000 (10,000 in case of special category states). The objective of the programmes is to facilitate State Power Utilities to reduce the level of AT&C losses to 15 percent. Projects execution under the scheme to be taken up in Two Parts. Part-A shall include the projects for establishment of baseline data and IT applications for energy accounting/auditing & IT based consumer service centres. Part-B shall include regular distribution strengthening projects. Initially, funds for the projects under both the parts are to be provided through loan (100 percent for Part-A and 25 percent for Part-B except special category and North-Eastern states for which under Part-B 90 percent loan will be provided) which will be converted into grant on fulfilment of conversion conditionalities. Besides, there is an enabling component namely, Part-C under which grant will be provided to meet the expenditure for facilitating activities of the programme.

18. **Assistance to Forum of Regulator for Capacity building:** The Government had approved a plan assistance of ₹ 10 crore to Forum of Regulators for capacity building and availing consultancy. The assistance is spread over the 11th Five Year Plan period with a maximum expenditure of ₹ 2 crore in any particular year.

21. **National Electricity Fund (Interest Subsidy Scheme):** In pursuance of the announcement made in the Budget (2008-09) for creation of a National Electricity Fund (NEF) for providing loan to the States for improving their distribution/transmission infrastructure, a Committee under the chairmanship of the Member (Power), Planning Commission was constituted on 29.04.2008. The proposal was revised on the basis of decision taken in the meeting held under Secretary (Planning Commission) to provide interest subsidy on loan by Financial Institutions like PFC, REC and commercial banks for distribution schemes not covered by R-APDRP and RGGVY. It has been decided that interest subsidy for loan disbursement by PFC, REC and Commercial Banks spread over 2011-12 and 2012-13 for distribution schemes.

26. **Investment in Public Enterprises:**

26.01. **National Thermal Power Corporation Limited:** NTPC Ltd. was set up in November, 1975 as a thermal power generating company with the main objective of construction of Thermal Power Projects at coal pit heads. Thereafter the Corporation has diversified into hydro power, power trading, coal mining etc. and has grown rapidly to become the largest generating company in India. NTPC Ltd., a Schedule-A MAHARATNA Company of Government of India, is the single largest power generator in India with comprehensive in house capabilities in building and operating power projects. The total installed capacity of NTPC (including its Joint Venture Companies) as on 31.01.2011 is 33,194 MW (Singrauli I and II, Korba I, II and III, Ramagundam I, II and III, Farakka-I and II, Vindhyachal I, II and III, Rihand I and II, Anta, Auraiya, Kawas I, Kahalgaon I and II, Sipat II, NCTPP Dadri I and II, Dadri Gas, Unchahar I, II and III, Gandhar GPP, Talcher STPP I and II, Talcher TPS, Kayamkulam I, Faridabad GBPP, Tanda TPS, Simhadri I, Badarpur, NTPC SAIL Power Co. Pvt. Ltd., Rourkela, Durgapur and Bhilai, Ratnagiri Gas and Power Pvt. Ltd., Kanti Bijlee Utpadan Nigam Ltd., Muzaffarpur and Aravali Power Company Private Ltd., Jhajjar).

26.02. **National Hydro-Electric Power Corporation Limited:** NHPC was set-up in 1975 with a view to securing speedy, efficient and economical execution and operation of Hydro-Electric Projects in the Central Sector. The Corporation has so far completed construction of 12 Projects (Baira siul, Loktak, Salal, Tanakpur, Chamera-I, Uri-I, Rangit, Chamera-II, Dhauliganga, Dulhasti, Teesta-V and Sewa-II) in the central sector and 2 Projects in Joint Venture i.e. Indira Sagar and Omkareswar. It has also completed 3 Projects on deposit work/ turn key basis. The total installed capacity of NHPC Limited including that of NHDC Limited as on 31.12.2010 is 5295 MW.

26.03. **Damodar Valley Corporation (DVC):** DVC was established in July, 1948 for the promotion and operation of irrigation, water supply, drainage, generation, transmission and hydro-electric power in the Damodar Valley. The total installed capacity of DVC as on 31.12.2010 is 3299.70 MW.

26.04. **North Eastern Electric Power corporation (NEEPCO):** NEEPCO was registered as a company under the Companies Act, 1956 on 2nd April, 1976 with the objective to plan, survey, investigate, design, construct, operate and maintain power stations in the N.E. Region. The total installed capacity of NEEPCO is 1130 MW as on 31.12.2010.

26.05. **Satluj Jal Vidyut Nigam Limited:** (Formerly Nathpa Jhakri Power Corporation Limited) was incorporated on May 24, 1988 as a joint venture of the Government of India and the Government of Himachal Pradesh to plan, investigate, execute, operate and maintain Hydro-electric power projects in the river Satluj basin in the state of Himachal Pradesh. Nathpa Jhakri Hydro Electric Power Project (1500 MW), the largest underground hydro electric project has been commissioned. SJVNL has been allocated the projects of Rampur HEP (412 MW), Luhri HEP (775 MW), Dhulasidh (40 MW) in Himachal Pradesh and Naitwar Mori (59 MW), Jakhol Sankari (45 MW), Devsari (252 MW) in Uttarakhand. SJVNL have also bagged through ICB for construction of 402 MW Arun III HEP in Nepal on BOOT basis. They have also been allotted two projects namely Wang Chu (600 MW) and Kholong Chu (486 MW) HEP in Bhutan for survey & investigation.

26.06. **Tehri Hydro-Electric Development Corporation India Limited:** THDC was incorporated as a joint venture of Government of India and Government of Uttar Pradesh in July, 1988 for integrated and efficient utilization 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 Plant (1000 MW). Tehri Dam and HE Project Stage-I has been completed whereas Koteshwar Dam HE Project, Tehri PSP and Vishnugad Pipalkoti HEP (444 MW) are under construction. The installed capacity of THDC India Ltd. as on 31.12.2010 is 1000 MW.

26.07. **Power Grid Corporation of India Limited:** PGCIL 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. The transmission systems of NTPC Ltd., NHPC Ltd., NEEPCO Ltd. and NLC were transferred with effect from April, 1992 to PGCIL. PGCIL transmission network carries about 43% of the total power generated in the country. The inter-regional transmission capacity of PGCIL as on 31.12.2010 is 22,400 MW.