

DEPARTMENT OF ATOMIC ENERGY

DEMAND NO.5

Nuclear Power Schemes

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

(In crores of Rupees)

Major Head	Budget 2009-2010			Revised 2009-2010			Budget 2010-2011			
	Plan	Non-Plan	Total	Plan	Non-Plan	Total	Plan	Non-Plan	Total	
Revenue	255.00	807.60	1062.60	352.00	740.60	1092.60	399.00	172.60	571.60	
Capital	1410.72	1.40	1412.12	1713.00	1.40	1714.40	1449.00	1.40	1450.40	
Total	1665.72	809.00	2474.72	2065.00	742.00	2807.00	1848.00	174.00	2022.00	
Nuclear Power Projects										
1. Rajasthan Atomic Power Station	2801	...	70.90	70.90	...	76.53	76.53	...	76.63	76.63
2. Fuel Inventory										
Gross	2801	255.00	1999.40	2254.40	352.00	1952.44	2304.44	399.00	1868.36	2267.36
Less- Receipts	0801	...	-1301.30	-1301.30	...	-1326.97	-1326.97	...	-1810.99	-1810.99
<i>Net</i>		<i>255.00</i>	<i>698.10</i>	<i>953.10</i>	<i>352.00</i>	<i>625.47</i>	<i>977.47</i>	<i>399.00</i>	<i>57.37</i>	<i>456.37</i>
3. Bhabha Atomic Research Centre, Mumbai (Waste Management Facilities at Tarapur and Kalpakkam)	2801	...	38.60	38.60	...	38.60	38.60	...	38.60	38.60
	4801	0.10	1.40	1.50	0.10	1.40	1.50	0.10	1.40	1.50
	<i>Total</i>	<i>0.10</i>	<i>40.00</i>	<i>40.10</i>	<i>0.10</i>	<i>40.00</i>	<i>40.10</i>	<i>0.10</i>	<i>40.00</i>	<i>40.10</i>
4. Indira Gandhi Centre for Atomic Research, Kalpakkam (Prototype Fast Breeder Test Reactor)	4801	47.00	...	47.00	47.00	...	47.00	10.00	...	10.00
5. DAE Projects (Other Schemes)	4801	10.00	...	10.00	15.20	...	15.20	4.90	...	4.90
6. <i>Investment in Public Enterprises</i>										
6.01 Nuclear Power Corporation of India Ltd.(NPCIL)	6801	603.62	...	603.62	651.00	...	651.00	34.00*	...	34.00
6.02 Bharatiya Nabhikiya Vidyut Nigam Ltd. (BHAVINI)	4801	750.00	...	750.00	999.70	...	999.70	1400.00	...	1400.00
Total- Investments in Public Enterprises		1353.62	...	1353.62	1650.70	...	1650.70	1434.00	...	1434.00
Grand Total		1665.72	809.00	2474.72	2065.00	742.00	2807.00	1848.00	174.00	2022.00
* Externally Aided Project										
B. Investment in Public Enterprises	Head of Dev	Budget Support	IEBR	Total	Budget Support	IEBR	Total	Budget Support	IEBR	Total
1. Nuclear Power Corporation of India Ltd.(NPCIL)	12801	603.62	1717.00	2320.62	651.00	1596.00	2247.00	34.00	2891.00	2925.00
2. Bharatiya Nabhikiya Vidyut Nigam Ltd. (BHAVINI)	12801	750.00	...	750.00	999.70	...	999.70	1400.00	...	1400.00
Total		1353.62	1717.00	3070.62	1650.70	1596.00	3246.70	1434.00	2891.00	4325.00
C. Plan Outlay										
1. Power										
Nuclear Power Schemes	12801	1665.72	1717.00	3382.72	2065.00	1596.00	3661.00	1848.00	2891.00	4739.00

1. **Rajasthan Atomic Power Station (RAPS)** - The operation and management of Rajasthan Atomic Power Station (RAPS), Unit-1 has been entrusted to Nuclear Power Corporation of India Limited (NPCIL) on the basis of MOU signed between the Department and NPCIL. The cost of operation and maintenance is paid by the Department.

2. **Fuel Inventory** - This provides for expenditure on the fuel for Tarapur Atomic Power Station and other Nuclear Power Reactors at other places.

3. **Bhabha Atomic Research Centre (BARC)** has established Waste Management Facilities and Waste Immobilisation Plants at Tarapur and Kalpakkam. These facilities are to process and store radioactive wastes generated by Power Stations. The provisions are for running these facilities and also for Plan Schemes of BARC under Power Sector.

4. **Indira Gandhi Centre for Atomic Research (IGCAR)** pursues Plan Schemes for providing R&D support aimed towards the construction of Prototype Fast Breeder Reactor, etc.

5. **DAE Projects** - The Project - Additional Spent Fuel Storage Facilities funded by DAE is being implemented by NPCIL.

6. **Investment in Public Enterprises**

6.01 **Nuclear Power Corporation of India Ltd.** - Nuclear Power Corporation of India Ltd. (NPCIL) is the nodal

agency for harnessing nuclear energy for power generation in the country. The main objectives of the company is to increase nuclear power generation capacity in the country as a safe, environmentally benign and economical source of electrical energy to meet the growing demand of electricity in the country.

6.02 **Bharatiya Nabhikiya Vidyut Nigam Limited (BHAVINI)** - Government of India had accorded administrative approval and financial sanction for setting up of Prototype Fast Breeder Reactor (PFBR) at Kalpakkam in Sept. 2003. To implement the project Bharatiya Nabhikiya Vidyut Nigam Limited (BHAVINI) was incorporated at Chennai on 22.10.2003 with an authorized share capital of Rs.5000 Crores. The Certificate of Commencement of Business was received on 18.11.2003. The objectives of BHAVINI is to plan, execute and operate an integrated programme of Fast Breeder Technology based Nuclear Power Stations for generating electricity on a commercial basis, commencing with PFBR. At present, about 70% of the structural works of Reactor Containment Building, 80% of Steam Generator Building 1 & 2 and 90% of Fuel Building has been completed.