

DEPARTMENT OF ATOMIC ENERGY**DEMAND NO. 6****Nuclear Power Schemes**

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

(In crores of Rupees)

Major Head	Budget 2004-2005			Revised 2004-2005			Budget 2005-2006			
	Plan	Non-Plan	Total	Plan	Non-Plan	Total	Plan	Non-Plan	Total	
Revenue	...	-292.03	-292.03	...	-5.69	-5.69	...	-343.53	-343.53	
Capital	2257.62	...	2257.62	2257.62	-346.47	1911.15	2443.96	...	2443.96	
Total	2257.62	-292.03	1965.59	2257.62	-352.16	1905.46	2443.96	-343.53	2100.43	
Nuclear Power Projects										
1. Rajasthan Atomic Power Station:										
Gross	2801	...	171.25	171.25	...	125.60	125.60	...	101.35	101.35
Less- Receipts	0801	...	-178.90	-178.90	...	-68.53	-68.53	...	-13.73	-13.73
Net		...	-7.65	-7.65	...	57.07	57.07	...	87.62	87.62
2. Fuel Inventory										
Gross	2801	...	589.21	589.21	...	480.08	480.08	...	551.22	551.22
Less Receipts	0801	...	-869.15	-869.15	...	-358.23	-358.23	...	-659.45	-659.45
Net		...	-279.94	-279.94	...	121.85	121.85	...	-108.23	-108.23
3. Heavy Water Pool Management										
Gross	2801	...	535.00	535.00	...	...	...	...	...	...
Less- Receipt	0801	...	-556.99	-556.99	...	-202.16	-202.16	...	-341.67	-341.67
Net		...	-21.99	-21.99	...	-202.16	-202.16	...	-341.67	-341.67
4. Bhabha Atomic Research Centre, Mumbai (Waste Management Facilities at Tarapur and Kalpakkam)										
Gross	2801	...	17.55	17.55	...	17.55	17.55	...	18.75	18.75
Less Receipts	4801	5.50	...	5.50	6.50	...	6.50	2.75	...	2.75
Net	<i>Total</i>	<i>5.50</i>	<i>17.55</i>	<i>23.05</i>	<i>6.50</i>	<i>17.55</i>	<i>24.05</i>	<i>2.75</i>	<i>18.75</i>	<i>21.50</i>
5. Indira Gandhi Centre for Atomic Research, Kalpakkam (Prototype Fast Breeder Test Reactor)	4801	8.10	...	8.10	6.60	...	6.60	5.00	...	5.00
6. DAE Projects (Other Schemes)	4801	7.72	...	7.72	7.71	...	7.71	2.21	...	2.21
7. Investment in Public Enterprises										
7.01 Nuclear Power Corporation of India Ltd.										
Gross	4801	1283.00	...	1283.00	900.01	...	900.01	...	...	...
Less- Receipt	6801	700.00	...	700.00	1171.80	...	1171.80	2004.00	...	2004.00
Net	0801	...	...	...	...	-346.47	-346.47	...	...	...
Net		700.00	...	700.00	1171.80	-346.47	825.33	2004.00	...	2004.00
Net	<i>Total</i>	<i>1983.00</i>	...	<i>1983.00</i>	<i>2071.81</i>	<i>-346.47</i>	<i>1725.34</i>	<i>2004.00</i>	...	<i>2004.00</i>
7.02 Bharatiya Nabhikiya Vidyut Nigam Ltd (BHAVINI)	4801	253.30	...	253.30	165.00	...	165.00	430.00	...	430.00
Total- Investments in Public Enterprises		2236.30	...	2236.30	2236.81	-346.47	1890.34	2434.00	...	2434.00
Grand Total		2257.62	-292.03	1965.59	2257.62	-352.16	1905.46	2443.96	-343.53	2100.43
B. Investment in Public Enterprises	Head of Dev.	Budget Support	IEBR	Total	Budget Support	IEBR	Total	Budget Support	IEBR	Total
7.01 Nuclear Power Corporation of India Ltd.	12801	1983.00	1911.00	3894.00	2071.81	1695.00	3766.81	2004.00	2696.00	4700.00
7.02 Bharatiya Nabhikiya Vidyut Nigam Ltd (BHAVINI)	12801	253.30	...	253.30	165.00	...	165.00	430.00	...	430.00
Total		2236.30	1911.00	4147.30	2236.81	1695.00	3931.81	2434.00	2696.00	5130.00
C. Plan Outlay:										
1. Power										
i. Nuclear Power Schemes	12801	2257.62	1911.00	4168.62	2257.62	1695.00	3952.62	2443.96	2696.00	5139.96

1. Rajasthan Atomic Power Station (RAPS), Rawatbhata- The management of RAPS, Unit-1 has been entrusted to Nuclear Power Corporation of India Limited on operational cost reimbursement basis. Hence, provision has been made in the budget for the operational expenses of the power station.

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

3. Heavy Water Pool Management - This provides for the management of Heavy Water inventory. Lease charges are recovered from the operating power stations for the use of Heavy Water. However, the provision has been withdrawn from RE stage as the Heavy Water Plants have been declared as commercial undertakings with effect from 01.04.2004.

4. Bhabha Atomic Research Centre (BARC) – 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.

5. Indira Gandhi Centre for Atomic Research (IGCAR) - IGCAR pursues Plan Schemes for providing R&D support aimed

towards the construction of Prototype Fast breeder Reactor being constructed by the newly constituted PSU.

6. DAE Projects – The Project - Additional Spent Fuel Storage Facility at RAPS funded by DAE is being implemented by NPCIL. This would take care of the spent fuel storage for an operating life of 15 more years for RAPS 1&2.

7. Investment in Public Enterprises

7.1 Nuclear Power Corporation of India Ltd. (NPCIL), Mumbai– NPCIL is the nodal agency for harnessing nuclear energy for power generation in the country. NPCIL is operating fourteen nuclear power reactors at Tarapur, Rawatbhata, Kalpakkam, Narora, Kakrapar and Kaiga with a capacity of 2720 MWe. The ongoing power projects in hand are Kudankulam 1&2, RAPS 5&6, TAPS 3&4 and Kaiga 3&4.

7.2 Bharatiya Nabhikiya Vidyut Nigam Ltd. (Bhavini), Kalpakkam- Bhavini was created under the Companies Act 1956 in September 2003 for implementation of the Project Prototype Fast Breeder Reactor (PFBR). The authorised capital of the Company is Rs. 5000 crore. The funding pattern of the project is with debit equity ratio of 20:80 with equity flowing in the first phase. Accordingly, the provisions for Investment in Equity have been projected under this Head.