

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 2003-2004			Revised 2003-2004			Budget 2004-2005			
	Plan	Non-Plan	Total	Plan	Non-Plan	Total	Plan	Non-Plan	Total	
Revenue	...	-69.42	-69.42	...	-378.70	-378.70	...	-292.03	-292.03	
Capital	2000.00	...	2000.00	2300.00	...	2300.00	2257.62	...	2257.62	
Total	2000.00	-69.42	1930.58	2300.00	-378.70	1921.30	2257.62	-292.03	1965.59	
Nuclear Power Projects										
1. Rajasthan Atomic Power Station:										
Gross	2801	...	174.00	174.00	...	134.66	134.66	...	171.25	171.25
Less- Receipts	0801	...	-187.00	-187.00	...	-141.17	-141.17	...	-178.90	-178.90
Net		...	-13.00	-13.00	...	-6.51	-6.51	...	-7.65	-7.65
2. Fuel Inventory										
Gross	2801	...	749.58	749.58	...	623.05	623.05	...	589.21	589.21
Less Receipts	0801	...	-833.00	-833.00	...	-928.51	-928.51	...	-869.15	-869.15
Net		...	-83.42	-83.42	...	-305.46	-305.46	...	-279.94	-279.94
3. Waste Management Facilities at Tarapur and Kalpakkam	2801	...	18.00	18.00	...	16.67	16.67	...	17.55	17.55
4801	3.40	...	3.40	3.40	16.00	...	16.00	5.50	...	5.50
Total	3.40	18.00	21.40	16.00	16.67	32.67	5.50	17.55	23.05	
4. Heavy Water Pool Management										
Gross	2801	...	525.00	525.00	...	525.00	525.00	...	535.00	535.00
Less- Receipt	0801	...	-516.00	-516.00	...	-608.40	-608.40	...	-556.99	-556.99
Net		...	9.00	9.00	...	-83.40	-83.40	...	-21.99	-21.99
5. Prototype Fast Breeder Test Reactor (PFBR)	4801	86.60	...	86.60	24.31	...	24.31	8.10	...	8.10
6. DAE	4801	10.00	...	10.00	4.13	...	4.13	7.72	...	7.72
7. Investment in Public Enterprises										
7.01 Nuclear Power Corporation	4801	1200.00	...	1200.00	1213.16	...	1213.16	1283.00	...	1283.00
6801	700.00	...	700.00	1000.00	...	1000.00	700.00	...	700.00	
Total	1900.00	...	1900.00	2213.16	...	2213.16	1983.00	...	1983.00	
7.02 Bharatiya Nabhikiya Vidyut Nigam Ltd (BHAVINI)	4801	...	...	...	42.40	...	42.40	253.30	...	253.30
Total- Investments in Public Enterprises	1900.00	...	1900.00	2255.56	...	2255.56	2236.30	...	2236.30	
Grand Total	2000.00	-69.42	1930.58	2300.00	-378.70	1921.30	2257.62	-292.03	1965.59	
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	12801	1900.00	1170.00	3070.00	2213.16	1293.00	3506.16	1983.00	1911.00	3894.00
7.02 Bharatiya Nabhikiya Vidyut Nigam Ltd (BHAVINI)	12801	...	...	...	42.40	...	42.40	253.30	...	253.30
	Total	1900.00	1170.00	3070.00	2255.56	1293.00	3548.56	2236.30	1911.00	4147.30
C. Plan Outlay:										
1. Power										
i. Nuclear Power Schemes	12801	2000.00	1170.00	3170.00	2300.00	1293.00	3593.00	2257.62	1911.00	4168.62

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** - Provides for expenditure on the fuel for Tarapur Atomic Power Station and other Pressurised Heavy Water Reactors at other places.

3. **Waste management Facilities at Tarapur and Kalpakkam - 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.

4. **Heavy Water Pool Management** - Provides for the management of Heavy Water inventory. Lease charges are recovered from the operating power stations for the use of Heavy Water.

5. **Prototype Fast Breeder Reactor** - 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. **Other Schemes** – 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 the implementation of the Project Prototype Fast Breeder Reactor (PFBR). The provision is for investment in Equity.