

**DEPARTMENT OF ATOMIC ENERGY****DEMAND NO. 5****Nuclear Power Schemes**

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

<i>(In crores of Rupees)</i>													
Major Head	Actual 2010-2011			Budget 2011-2012			Revised 2011-2012			Budget 2012-2013			
	Plan	Non-Plan	Total	Plan	Non-Plan	Total	Plan	Non-Plan	Total	Plan	Non-Plan	Total	
Revenue	311.21	410.82	722.03	523.00	139.65	662.65	522.90	398.42	921.32	432.60	581.60	1014.20	
Capital	397.03	1.23	398.26	1086.00	1.40	1087.40	902.10	1.40	903.50	565.67	1.40	567.07	
<b>Total</b>	<b>708.24</b>	<b>412.05</b>	<b>1120.29</b>	<b>1609.00</b>	<b>141.05</b>	<b>1750.05</b>	<b>1425.00</b>	<b>399.82</b>	<b>1824.82</b>	<b>998.27</b>	<b>583.00</b>	<b>1581.27</b>	
1. Rajasthan Atomic Power Station	2801	...	80.33	80.33	...	84.93	84.93	...	79.68	79.68	...	79.68	79.68
2. Fuel Inventory													
2.01 Gross	2801	311.21	1887.54	2198.75	523.00	1749.45	2272.45	522.90	2067.60	2590.50	432.60	2400.00	2832.60
2.02 Less- Receipts	0801	...	-1599.29	-1599.29	...	-1746.33	-1746.33	...	-1800.00	-1800.00	...	-1950.00	-1950.00
<i>Net</i>		311.21	288.25	599.46	523.00	3.12	526.12	522.90	267.60	790.50	432.60	450.00	882.60
3. Bhabha Atomic Research Centre, Mumbai (Waste Management Facilities at Tarapur and Kalpakkam)	2801	...	42.24	42.24	...	51.60	51.60	...	51.14	51.14	...	51.92	51.92
	4801	...	1.23	1.23	10.00	1.40	11.40	0.10	1.40	1.50	10.00	1.40	11.40
<i>Total</i>		...	43.47	43.47	10.00	53.00	63.00	0.10	52.54	52.64	10.00	53.32	63.32
4. Indira Gandhi Centre for Atomic Research, Kalpakkam (Prototype Fast Breeder Test Reactor)	4801	14.95	...	14.95	27.00	...	27.00	27.00	...	27.00	5.00	...	5.00
5. DAE Projects (Other Schemes)	4801	5.00	...	5.00	...	...	...	...	...	...	...	...	...
6. Investment in Public Enterprises													
6.01 Nuclear Power Corporation of India Limited (NPCIL)EAP	6801	62.08	...	62.08	24.00	...	24.00	...	...	...	14.00	...	14.00
6.02 Bharatiya Nabhikiya Vidyut Nigam Limited (BHAVINI)	4801	315.00	...	315.00	1025.00	...	1025.00	875.00	...	875.00	536.67	...	536.67
<i>Total- Investment in Public Enterprises</i>		377.08	...	377.08	1049.00	...	1049.00	875.00	...	875.00	550.67	...	550.67
7. Heavy Water Pool Management													
7.01 Gross	2801	...	...	...	...	5900.00	5900.00	...	5900.00	5900.00	...	990.00	990.00
7.02 Less Receipts	0049	...	...	...	...	-5900.00	-5900.00	...	-5900.00	-5900.00	...	-990.00	-990.00
<i>Net</i>		...	...	...	...	...	...	...	...	...	...	...	...
<b>Grand Total</b>		<b>708.24</b>	<b>412.05</b>	<b>1120.29</b>	<b>1609.00</b>	<b>141.05</b>	<b>1750.05</b>	<b>1425.00</b>	<b>399.82</b>	<b>1824.82</b>	<b>998.27</b>	<b>583.00</b>	<b>1581.27</b>

(in crores of Rupees)

	Head of Dev	Budget Support	IEBR	Total	Budget Support	IEBR	Total	Budget Support	IEBR	Total	Budget Support	IEBR	Total	
<b>B. Investment in Public Enterprises</b>														
6.01	Nuclear Power Corporation of India Limited (NPCIL)	12801	62.08	1831.09	1893.17	24.00	3972.00	3996.00	...	4844.00	4844.00	14.00	5446.08	5460.08
6.02	Bharatiya Nabhikiya Vidyut Nigam Limited (BHAVINI)	12801	315.00	...	315.00	1025.00	...	1025.00	875.00	30.00	905.00	536.67	163.33	700.00
<b>Total</b>			<b>377.08</b>	<b>1831.09</b>	<b>2208.17</b>	<b>1049.00</b>	<b>3972.00</b>	<b>5021.00</b>	<b>875.00</b>	<b>4874.00</b>	<b>5749.00</b>	<b>550.67</b>	<b>5609.41</b>	<b>6160.08</b>
<b>C. Plan Outlay</b>														
1.	Power	12801	708.24	1831.09	2539.33	1609.00	3972.00	5581.00	1425.00	4874.00	6299.00	998.27	5609.41	6607.68

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):** 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):** IGCAR pursues Plan Schemes for providing R&D support aimed towards the construction of Prototype Fast breeder Reactor, etc.

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 at Kalpakkam in September 2003. To implement the project BHAVINI was incorporated at Chennai on 22.10.2003. 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 commercial basis, commencing with Prototype Fast Breeder Reactor (FBR). The company is currently building the 500 MWeFBR at Kalpakkam. The FBR is the forerunner of the future Fast Breeder Power Reactors and is expected to provide energy security to the country.