

ENERGY

ANNUAL PLAN - 2010 - 2011

INTRODUCTION

Energy is an essential requirement for economic as well as overall development of the State. Availability of sufficient quality power is unavoidable for meeting the means of subsistence of common people and industrial development. The aim of 11th five year plan is to increase power generation, encourage power sector development and competition in the sector, reduce AT & C losses and the cross subsidy, protect interest of consumers and ensure quality power supply with transparent policies.

Achievements

- No. of villages electrified under RGGVY Programme : 9526
- No. of BPL households given electric connection : 6,52,290
- Work of 33/11 KV PSS under RGGVY are complete at 21 places in the State.
- The Jharkhand State Electricity Regulatory Commission, the Consumer Grievance Redressal Forum, the Electricity Ombudsman, and the District Coordination Committees are in place as required under the Electricity Act, 2003.

2. STATE SHARE TO CSS

2.1 Rajeev Gandhi Gramin Vidyutikarn Yojana (RGGVY) (90: 10)

Under centrally sponsored RGGVY scheme all unelectrified & deelectrified villages of state (19737) are to be electrified and 1660928 BPL households are to be given electric connection. Above scheme is being financed by REC in the ration of 90% grant and 10% loan. The funds are directly made available to executing agencies. (Six (6) districts have been allotted to J.S.E.B., eight (8) districts to DVC and eight (8) districts to N.T.P.C.). Remaining 10% Loan amount and interest payable thereon is to be borne by State Government. Components of RGGVY are Debt servicing, NPV payment and Entry tax.

Revised sanctioned cost of 22 projects by REC comprising all 24 districts including Service charge/overhead of CPSU/SPU is Rs. 3219.4804 Cr.

2.2 Re-Structured Accelerated Power Development & Reform Program A.P.D.R.P (50 : 50)

In order to improve power distribution system in urban areas of the State and reduce AT & C losses, Central Government has sanctioned Rs. 225.72 Crores schemes in the year 2009 - 10 with project cost of Rs. 160.61 Crores. Projects 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.

Terms and conditions for GoI loan for restructured APDRP have been approved by MoF and Power Finance Corporation Limited has been made Nodal Agency. 100% of the approved project cost of Part-A shall be provided as loan from the Government of India through PFC Ltd. The part -A loan along with interest thereon shall be converted into grant once the establishment of the required system is achieved and verified by an independent agency appointed by Ministry of Power. No conversion to grant will be made in case projects are not completed within 3 years from the date of sanctioning of the project. Up to 30% of the project cost can be released as Government of India loan upfront on approval of the project.

Detail of sanctioned project is as follows: -

Sl. No.	Town/Project	Project Cost (in crore)	Loan amount (in crore)
1	Ranchi	101.50	71.21
2	Gumla	1.86	1.35
3	Lohardagga	1.55	1.12
4	Simdega	1.10	0.78
5	Musabani	0.71	0.53
6	Dumka	2.51	1.82
7	Mihijam	0.82	0.70
8	Deoghar	6.15	458
9	Madhupur	1.50	1.06
10	Godda	1.13	0.80
11	Sahebganj	2.01	1.46
12	Pakur	1.20	0.85
13	Hazaribagh	4.89	3.51
14	Ramgarh	3.05	2.22
15	Giridih	2.34	1.68
16	Gomia	1.01	0.71
17	Daltonganj	4.17	3.10
18	Garhwa	1.52	1.09
19	Jamshedpur	50.07	35.90

20	Chaibasa	2.65	1.86
21	Chakradharpur	1.36	0.97
22	Chatra	1.06	0.75
23	Dhanbad	16.86	12.12
24	Ghatshila	1.06	0.75
25	Patratu	1.30	0.93
26	Saunda	0.13	0.10
27	Phusro	1.75	1.22
28	Bokaro Steel City	3.65	2.63
29	Chirkunda	4.07	2.86
30	Jhumri Tilaiya	2.74	1.95
GRAND TOTAL		225.72	160.61

3. STATE PLAN SCHEMES

Continuing Scheme

3.1 Generation

Present power requirement of is approximately 1400 - 1450 MW. This demand is met by P.T.P.S. (150-180 MW), TVNL (200 MW), DVC (450 MW, in DVC command area) and remaining from central allocation. Out of 10 units of P.T.P.S. only 4 units are generating on an average 150-180 MW, power. Under continuing scheme, the work pertaining to renovation & rehabilitation of unit no. 9 & 10 is in progress and taking up work for unit no. 3 & 5 and 7 & 8 have been proposed during the FY. 2010-11.

3.2 Transmission

The Transmission network in the state is not adequate for evacuating power and catering to the expected load growth. Evacuation capacity is required to be increased for Inter Regional Transfer of Power.

To overcome this inadequacy, JSEB has planned for construction of Grid Sub Stations and Transmission Lines in almost all Districts of State in phases. The ongoing project in the districts Ranchi, Lohardagga, Latehar, Garhwa, Palamu, Sahebganj and Pakur is in progress.

New scheme of construction of grid substation at Simdega and Chatra and connecting high tension transmission line has been taken up to give upfront connectivity to RGGVY programme.

3.3 Distribution

Under Annual development program the following works are being proposed under supply and distribution as continuing scheme: -

- Construction of 33KV/11KV Lines and Power Sub Station,

- Installation and augmentation of Power and Distribution transformers.
- Augmentation of 33 KV Lines
- Augmentation of 11 KV Lines
- Metering of PSS, DTRs and consumers
- Energy audit
- Augmentation of Sub Stations being constructed under RGGVY and conversion of 1-phase lines into 3-phase lines for meeting the power requirement of rural irrigation.
- Feeder renovation for segregation of Load.

3.4 Re-structuring of JSEB and support to Successor Companies

In order to make the successor companies financially viable on account of employees terminal benefit liabilities, coal & power purchase related liabilities and subsidy/revenue gap (excluding any possible infusion of equity to the successor corporate entities).

3.5 State load Despatch Centre (SLDC)

In accordance with provision of Sec. 31 of Indian Electricity Act 2003 independent state load dispatch center is to be established. At present C.L.D.C. of J.S.E.B. has been notified as S.L.D.C. The work for establishment of S.L.D.C. is to be taken up immediately considering possibilities of unbundling of Board and up-comings of IPPs in power sector in the State. For establishment of S.L.D.C. with latest technologies & modern equipments, infrastructures and trained manpower is to be arranged. Power Grid Corporation of India Limited, a PSU of GoI has been awarded the work.

3.6 Jharkhand Renewable Energy Development Agencies (JREDA)

Ministry of New and Renewable Energy (MNRE), Government of India has sanctioned proposal of electrification of 26 remote villages through solar photovoltaic system spread over in the districts of West Singhbhum, Sahebganj, Lohardagga, Daltonganj, Gumla and Ranchi and for 329 remote villages in principal approval has been communicated. MNRE will fund 90% against bench mark price of the solar systems in remote village electrification programme.

Matching fund for centrally sponsored remote village electrification has also been proposed.

The following activities have been proposed: -

- Under national biogas programme domestic and institutional improved chulha

- Solar photovoltaic programme (solar lantern, solar street light, solar submersible pump, solar hot water equipment etc solar thermal),
- Through Solar Power Plant giving connectivity to important govt. buildings.
- Survey of mini and micro hydro project have been proposed.
- Monitoring of various programmes through third party inspection
- Consultancy services from agencies of national repute
- Awareness campaign and training programme

3.7 Mini Hydel Project

The work relating to ongoing eight incomplete mini hydel projects in the state started by Bihar State Hydroelectric Power Corporation is to be completed.

3.8 Energy Conservation, Consultancy and other works

Energy Conservation programme is undertaken in the State in accordance with guidelines of Bureau of Energy Efficiency, Government of India. For development of power sector and allied related activities, consultancy services are to be taken-up to meet out the growing demand of energy in the State.

Awareness creation, training and implementation of electricity saving measures with verifiable results for the target group of domestic and commercial consumers have been envisaged.

The following works have been proposed during 2010-11: -

- LED street lighting project from Sujata Chowk to Firayalal Chowk in Ranchi.
- Replacement of general lighting service (GLS) lamps and with compact fluorescent lamp (CFL) lamp & 10-15 watt incandescent lamp used as indicator lamps with 0.5-1 watt LED lamp in Government buildings in phases. Similarly, existing 40/36 watt tube light will be replaced with LED tube light and outdoor sodium vapour and mercury vapour lamps in Government Establishments with LED light.
- BEE star labelled energy efficient products such as air conditioner, fans and pumps in place of conventional air conditioner, fans and pumps are proposed in Government buildings.

3.9 Koel Karo Hydel Power Station

For salary and establishment expenditure of director land acquisition and rehabilitation.

3.10 Tenughat Vidyut Nigam Ltd.

The equity capital of TVNL was Rs. 100 Crores at the time of creation of TVNL. Subsequently, Govt. of Jharkhand has given Rs. 5 Crore to increase the share capital.

To provide additional equity capital for increasing the share capital of TVNL.

3.11 Rural Electrification

In certain districts habitations with population of less than 300 has not been considered. Also some villages, which were earlier taken up for execution departmentally and through turnkey contracts by M/s Rites, are not included in RGGVY scheme. It is proposed to electrify all left out habitations in the financial year 2010-11.

4. TRIBAL SUB PLAN

A sum of **Rs. 30849.00** lakhs has been earmarked for Tribal Sub Plan out of total proposed outlay of **Rs. 75000.00** lakhs during Annual Plan 2010-11.

5. SPECIAL COMPONENT SUB PLAN

A sum of **Rs. 8928.00** lakhs has been earmarked for Special Component Sub Plan out of total proposed outlay of **Rs. Rs. 75000.00** lakhs during Annual Plan 2010-11.

6. **OUTLAY PROPOSED FOR VARIOUS SCHEMES (Energy)**

Sl. No.	Type of Scheme	Annual Plan 2010-11 (Rs. in lakh)			
		Proposed Outlay	Flow to TSP	Flow to SCSP	Flow to OSP
A.	State Share (CSS/CS)				
1	RGVY (90 : 10)	10800.00	4346.68	1334.99	5118.33
2	APDRP (50 : 50)	6800.00	2736.80	840.55	3222.65
B.	State Plan Schemes				
	Continuing Scheme				
1	Generation	9000.00	3622.23	1112.48	4265.29
2	Transmission	14500.00	6500.00	1450.00	6550.00
3	Distribution	8000.00	3219.76	988.88	3791.36
4	Re-structuring of JSEB and support to successor companies	21000.00	8451.43	2595.41	9953.16
5	State Load Dispatch Centre (SLDC)	500.00	201.24	61.81	236.96
6	JREDA Programme	2000.00	804.94	247.22	947.84
7	Mini Hydel Project	500.00	201.24	61.81	236.96
8	Energy Conservation/ Consultancy and other works	340.00	136.84	42.03	161.13
9	Koel Karo Hydel Projects (Estb.)	60.00	24.15	7.42	28.44
10	TVNL (Share capital)	500.00	201.24	61.81	236.96
11	Rural Electrification	1000.00	402.47	123.61	473.92
	Grand Total	75000.00	30849.00	8928.00	35223.00

SUMMARY (Energy)

Sl. No.	Type of Scheme	Annual Plan 2010-11 (Rs. in lakh)			
		Proposed Outlay	Flow to TSP	Flow to SCSP	Flow to OSP
A.	Earmarked	--	--	--	--
B.	State Share (CSS/CS)	17600.00	7083.48	2175.54	8340.98
C.	State Plan Schemes				
	i. Continuing Schemes	57400.00	23765.52	6752.46	26882.02
	ii. New Schemes	--	--	--	--
D.	EAP (if any)	--	--	--	--
E.	Other	--	--	--	--
	Grand Total	75000.00	30849.00	8928.00	35223.00