

1. ORGANIZATION'S PROFILE :

Organisation, Function & duties

1.1 After unbundling of RSEB, Rajasthan Rajya Vidyut Prasaran Nigam Limited (RVPN) has been established under companies Act 1956 by Govt. of Rajasthan and registered with Registrar of Companies as "**RAJASTHAN RAJYA VIDYUT PRASARAN NIGAM LIMITED**" with its Registered Office at **VIDYUT BHAWAN, JYOTI NAGAR, JAIPUR-302005**. RVPN has been discharging its function as a Transmission Licencee in the State. Under the provision of the Electricity Act, 2003 effective from 10th June, 2003, RVPN has been declared as State transmission Utility (STU) by the State government. Section 39(1) of Electricity Act 2003, prohibits the STU to undertake business of trading of electricity. Further, the State Government had decided that the RVPN would be continuing its function of bulk supply of electricity upto 31st March 2004 under the provisions of the existing license. Thereafter, from 1st April 2004 the Distribution Companies are directly contracting with the Generating Companies as per the share allocated by the State Government. Currently, RVPN has been discharging wheeling of power and transmission of electricity only.

The main functions carried out by RVPN are :-

- Intra State Transmission of Electricity through Intra State Transmission System.
- Planning and Co-ordination relating to Intra-State Transmission with a connected agencies such as CTU, State Govt., GENCO, Licensees, Regional Power Committees etc.
- Ensure development of an Efficient, Co-ordinate and Economical System of Intra-State Transmission of Electricity from Generating Stations to Load centers
- Non-Discriminatory Open Access to its Transmission System on Payment of Transmission Charges
- Comply with the directions of RLDC and SLDC's
- To operate SLDC until any other authority is established by the State Govt.

A) Maintenance of EHV Lines & Grid Sub-stations

RVPN undertakes the maintenance of EHV lines and Grid Sub Stations of 400 kV/220 kV/132 kV/66 kV rating.

B) Preparation of Annual Plan

Every year Annual Plan for undertaking various EHV works, i.e. laying of new Transmission lines, construction of Grid Sub Stations and augmentation of existing sub stations, is made

<u>INSTALLED CAPACITY OF GENERATING PROJECTS CONNECTED TO THE RVPN GRID</u> <u>INCLUDING ALLOCATION OF CENTRAL SECTOR PROJECTS AS ON 31 March-12 (Prov.)</u>				
1	<u>State Sector Projects</u>	Installed Capacity (MW)	Raj. Share %	Firm capacity available to Raj. (MW)
	A			
	<u>RVUN Projects</u>			
	(a)			
	<u>Hydro Projects</u>			
	(i) Mahi Hydrel (2x25+2x45)	140.00	100.00	140.00
	(ii) Anoopgarh MH(3x1.5+3x1.5)	9.00	100.00	9.00
	(iii) Mahi-RMC MH(2x0.4+1x0.165)	0.97	100.00	0.97
	(iv) Suratgarh MH (2x2)	4.00	100.00	4.00
	(v) Mangrol MH (3x2)	6.00	100.00	6.00
	(vi) Pugal MH (1x1.5+1x0.65)	2.15	100.00	2.15
	(vii) Charanwala MH (1x1.2)	1.20	100.00	1.20
	(viii) Birsulpur MH (1x0.535)	0.54	100.00	0.54
	SUB-TOTAL (a)	163.85		163.85
	(b)			
	<u>Thermal/Gas Projects</u>			
	(i) KTPS Stage.I,II,III, IV,V (2x110+2x210+1x210+1x195+1x195)	1240.00	100.00	1240.00
	(ii) Ramgarh GTPP stage-I,II& III (1x3+1x35.5+2x37.5)	113.50	100.00	113.50
	(iii) STPS Stage - I,II,III,IV (2x250+2x250+1x250+1x250+1x250)	1500.00	100.00	1500.00
	(iv) Dholpur GTPP Unit-1 to 3 (3x110)	330.00	100.00	330.00
	(v) Giral TPS Stage-I Unit-1 & 2 (2x125)	250.00	100.00	250.00
	(vi) Chhabra TPS Stage-I, Unit-1 & 2 (2x250)	500.00	100.00	500.00
	SUB-TOTAL (b)	3933.50		3933.50
	SUB-TOTAL A (a+b)	4097.35		4097.35
	(B)			
	<u>Non-Conventional Projects (Wind, Biomass & Solar)</u>			
	(i) Wind Power Projects	2067.045	100.00	2067.045
	(ii) Biomass Power Projects	91.300	100.00	91.300
	(iii) Solar Power Projects	198.500	100.00	198.500
		2356.845		2356.845
	TOTAL-1 (A+B)	6454.195		6454.195
	2			
	<u>SHARED PROJECTS</u>			
	(a)			
	<u>Hydro Projects</u>			
	(a.i)			
	B.B.M.B. Complex			
	(i) Bhakra Left Bank HEP(5x108)	540.00	15.22	82.18
	(ii) Bhakra Right Bank HEP(5x157)	785.00	15.22	119.48
	(iii) Kotla HEP (1x29.25+1x24.2+1x24.2)	77.65	15.22	11.82
	(iv) Ganguwal HEP (1x29.25+1x24.2+1x24.2)	77.65	15.22	11.82
	(v) Dehar HEP (6x165)	990.00	20.00	198.00
	(vi) Pong HEP (6x66)	396.00	58.50	231.66
	(a.ii)			
	Chambal Complex			
	(i) Gandhi Sagar HEP (5x23)	115.00	50.00	57.50
	(ii) Rana Pratap Sagar HEP (4x43)	172.00	50.00	86.00
	(iii) Jawahar Sagar HEP (3x33)	99.00	50.00	49.50
	SUB-TOTAL (a) (a.i+a.ii)	3252.30		847.95
	(b)			
	<u>Thermal Projects</u>			
	(i) Satpura TPS (5x62.5)	312.50	40.00	125.00
	SUB-TOTAL (b)	312.50		125.00
	TOTAL-2 (a+b)	3564.80		972.95

3	Central Sector Allocation	Installed Capacity (MW)	Raj. Share %	Available capacity to Raj. (MW)
	(a) Hydro Projects (NHPC/SJVNL/THDC)			
	(i) Tanakpur HEP (3x31.4)	94.20	11.53	10.861
	(ii) Salal HEP Stage -I & II (690)	690.00	2.95	20.355
	(iii) Chamera HEP Stage -I (3x180)	540.00	19.60	105.840
	(iv) Uri HEP (4x120)	480.00	8.96	43.008
	(v) Chamera HEP Stage -II (3x100)	300.00	9.67	29.010
	(vi) NJPS (6x250) (SJVNL)	1500.00	7.47	112.000
	(vii) Dhauri Ganga HEP (4x70)	280.00	9.64	27.000
	(viii) Tehri HEP Stage-1 (Unit-I to IV) (4x250) (THDC)	1000.00	7.5	75.000
	(ix) Dulhasti HEP (Unit-I to III) (3x130)	390.00	10.88	42.420
	(x) Sewa HEP Stage-II (Unit 1 to 3) (3x40 MW)	120.00	10.84	13.008
	(xi) Koteshwar HEP (4x100 MW) (Unit-1)	100.00	8.36	8.360
	SUB-TOTAL (a)	5494.20		486.86
	(b) Thermal/Gas Projects (NTPC)			
	(i) Singrauli TPS (5x200+2x500)	2000.00	15.00	300.00
	(ii) Rihand TPS Stage-I (2x500)	1000.00	9.50	95.00
	(iii) Rihand TPS Stage-II (2x500)	1000.00	10.00	100.00
	(iv) Anta GTPP (3x88.71+1x153.2)	419.33	19.81	83.07
	(v) Auria GTPP (4x111.19+2x109.3)	663.36	9.20	61.03
	(vi) Dadri GTPP (4x130.19+2x154.5)	829.76	9.28	77.00
	(vii) Unchahar TPS (2x210)	420.00	4.76	20.00
	(viii) Unchahar TPS Stage - II (2x210)	420.00	9.05	38.00
	(ix) Unchahar TPS Stage - III (1x210)	210.00	10.95	23.00
	(x) Kahalgaon TPS Stage - II (3x500)	1500.00	4.87	73.00
	(xi) Barsingsar TPS Stage-I, Unit-1 (1x125)	125.00	100.00	125.00
	(xii) Barsingsar TPS Stage-I, Unit-2 (1x125)	125.00	100.00	125.00
	(xiii) E.R.Allocation (in lieu of Tala-6x170=1020 MW)			
	(i) Farakka TPS (0.69%)	1600	0.69	11.04
	(ii) Kahalgaon TPS Stage-I (3.04%)	840	3.04	25.54
	(iii) Kahalgaon TPS Stage-II (2.24%)	1500	2.24	33.60
	(iv) Majia TPS (5.88%)	250	5.88	14.70
	SUB-TOTAL (b)	12902.45		1204.98
	(c) Nuclear Projects (NPC)			
	(i) RAPP(1x100+1x200)	300.00	100.00	300.00
	(ii) NAPS (2x220)	440.00	10.00	44.00
	(iii) RAPP Extn. (1x220) Unit-3	220.00	28.41	62.50
	(iv) RAPP Extn. (1x220) Unit-4	220.00	28.41	62.50
	(v) RAPP (1x220) Unit-5	220.00	19.94	43.87
	(vi) RAPP (1x220) Unit-6	220.00	19.94	43.87
	SUB-TOTAL (c)	1620.00		556.74
	TOTAL- 3 (a+b+c)	20016.65		2248.58
	3 PRIVATE SECTOR PROJECTS			
	(i) M/s Raj West Power TPS (Unit-1 & 4) (4x135 MW)	540.00	100.00	540.00
	TOTAL- 4	540.00		540.00
	GRAND TOTAL (1+2+3+4)	30575.65		10215.73

	Capacity added during Apr-11 to March-12 (Prov.)	Increase in Installed Capacity (MW) / Comm./Sync. Date	Raj. Share %	Available capacity to Raj. (MW)
1	Koteshwar HEP (4x100 MW) (Unit-1)	100 MW/1-4-11	8.36	8.36
2	Wind Power	44.8 MW/May-11	100.00	44.80
3	Wind Power	50.3 MW/June-11	100.00	50.30
4	M/s Sanjog Sugar Pvt. Ltd. (Biomass)	10 MW/June-11	100.00	10.00
5	M/s Acme Telepower Ltd.(Solar)	2.5 MW/June-11	100.00	2.50
6	Wind Power	23.2 MW/July-11	100.00	23.20
7	Wind Power	35.1 MW/Aug-11	100.00	35.10
8	Wind Power	72.95 MW/Sept-11	100.00	72.95
9	Wind Power	13.6 MW/Oct-11	100.00	13.60
10	Solar Power	31 MW/Oct-11	100.00	31.00
11	Wind Power	26 MW/Nov-11	100.00	26.00
12	Solar Power	5 MW/Nov-11	100.00	5.00
13	M/s Raj West Power (Unit-3) (1x135 MW)	135 MW/7-11-11	100.00	135.00
14	Wind Power	38.65MW/Dec-11	100.00	38.65
15	Solar Power	11 MW/Dec-11	100.00	11.00
16	M/s Raj West Power (Unit-4) (1x135 MW)	135 MW/4-12-11	100.00	135.00
17	Wind Power	16.8 MW/Jan-12	100.00	16.80
18	Solar Power	73 MW/Jan-12	100.00	73.00
19	Wind Power	9.3 MW/Feb-12	100.00	9.30
20	Wind Power	214.95 MW/March-12	100.00	214.95
21	Solar Power	71 MW/March-12	100.00	71.00
	TOTAL INCREASE			1027.51