

List of abbreviations

A&G	:	Administrative and General Expenses
APDRP	:	Accelerated Power Development & Reform Programme
ARR	:	Aggregate Revenue Requirement
AT & C	:	Aggregate Technical and Commercial
AVVNL	:	Ajmer Vidyut Vitran Nigam Ltd.
BEE	:	Bureau of Energy Efficiency
BPL	:	Below Poverty Line
CAGR	:	Compounded Annual Growth Rate
CERC	:	Central Electricity Regulatory Commission
CFL	:	Compact Fluorescent Lamp
CGRF	:	Consumer Grievance Redressal Forum
COD	:	Commercial Date of Operation
CPP	:	Captive Power Plants
DCCP	:	Dholpur Combined Cycle Gas based Thermal Power Plant
DISCOM	:	Distribution Company
DS	:	Domestic Supply
DSM	:	Demand Side Management
EA 2003	:	Electricity Act, 2003
ED	:	Electricity Duty
FRP	:	Feeder Renovation Program
FY	:	Financial Year
GFA	:	Gross Fixed Assets
GIS	:	Geographical Information System
GoR	:	Government of Rajasthan
HT	:	High Tension
JdVVNL	:	Jodhpur Vidyut Vitran Nigam Limited
JVVNL	:	Jaipur Vidyut Vitran Nigam Limited
KTPS	:	Kota Thermal Power Station
KVA	:	Kilo Volt Ampere
LPS	:	Late Payment Surcharge
LT	:	Low Tension
LTL	:	Long-Term Loans
MIP	:	Medium Industrial Power
MU	:	Million Unit
MW	:	Mega Watt
MYT	:	Multi Year Tariff
NDS	:	Non Domestic Supply
NHPC	:	National Hydro Power Corporation
NJPC	:	Naptha Jhakri Power Corporation
NPC	:	Nuclear Power Corporation
NTPC	:	National Thermal Power Corporation
O&M	:	Operation & Maintenance
PGCIL	:	Power Grid Corporation of India Ltd.
PLF	:	Plant Load Factor
PSL	:	Public Street Lighting
RAPDRP	:	Restructured Accelerated Power Development & Reform Programme
RERC	:	Rajasthan Electricity Regulatory Commission
RGGVY	:	Rajeev Gandhi Gramin Vidyutikarn Yojana

List of abbreviations

RGTPS	:	Ramgarh Gas Thermal Power Station
RoE	:	Return on Equity
RPO	:	Renewable Power Obligation
RREC	:	Rajasthan Renewable Energy Corporation
R&M	:	Repairs & Maintenance
RVPNL	:	Rajasthan Vidyut Prasaran Nigam Limited
RVUN	:	Rajasthan Vidyut Utpadan Nigam
SCL	:	Sanctioned Connected Load
SIP	:	Small Industrial Power
SOP	:	Standards of Performance
SWHS	:	Solar Water Heating System
SLDC	:	State Load Dispatch Centre
STPS	:	Suratgarh Thermal Power Station
T&D	:	Transmission & Distribution
TCoS	:	Terms and Conditions of Supply
UI	:	Unscheduled Interchange
VAR	:	Volt Ampere Reactive

Annexure-1

List of Objectors

JVVNL

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Objection No.	Name
1	Sh. Shanti Prasad
2	Sh. Narendra Agarwal
3	Sh. Ratan Lal Verma
4	Sh. Rajendra Goyal
5	Sh. P. N. Mandola
6	M/s Rajasthan Steel Chamber
7	M/s Samta Power
8	M/s Rudrakesh Energy
9	M/s Rajasthan Chamber & Commerce of Industry
10	M/s DCM Shriram Consolidated Ltd.
11	M/s Rajasthan Renewable Energy Corporation Ltd.
12	M/s USAID
13	Sh. Prithwi Singh Shekhawat
14	M/s Ultratech Cement Ltd.
15	M/s Rajasthan Textile Mills Association
16	M/s Bhiwadi Manufacture Association
17	M/s RajWest Power Ltd.
18	Sh. Subodh Kumar Bhatnagar
19	M/s ACC Ltd.
20	Sh. G. L. Sharma
21	Sh. P. C. Jain
22	Sh. R. G. Gupta
23	M/s Shree Cement Ltd.
24	Sh. Padam Chand Jain
25	M/s Consumer Legal Help Society

Annexure-1

List of Objectors

AVVNL

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Objection No.	Name
1	Sh. Shanti Prasad
2	Sh. Narendra Agarwal
3	Sh. Rajendra Goyal
4	Sh. P. N. Mandola
5	M/s Samta Power (Sh. BMS & YKB)
6	M/s Rudrakesh Energy
7	M/s Rajasthan Chamber & Commerce of Industry
8	M/s Sangam (India) Ltd
9	M/s Mewar Chamber of Commerce of Industry
10	M/s A Infrastructure Ltd.
11	Sh. Naresh Chand Sharma
12	M/s Kishangarh Marble Association
13	M/s USAID
14	M/s Birla Cement Works
15	M/s R K Marble
16	M/s Hindusthan Zinc Ltd.
17	M/s Ultratech Cement Ltd-Aditya Cement works
18	Sh. Santosh Kumar Mishra
19	Sh. Choudary Mamraj Singh
20	M/s Rajwest Power Ltd.
21	Sh. S. M. Nahar
22	Sh. B. S. Meel
23	M/s Ajmer Zila Vidyut Mazdoor Congress
24	President, Vikas Samiti
25	Sh. Subodh Kumar Bhatnagar
26	Sh. G. L. Sharma
27	Nathdwara Muktidham Vikas Samiti
28	M/s Jan Jagran Munch
29	President, Zila Upphokta Jagran Samiti
30	Sh. R. G Gupta
31	M/s Shree Cement Ltd
32	Sh. Gangadhar Solanki

Annexure-1

List of Objectors

JdVVNL

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Objection No.	Name
1	Sh. Shanti Prasad
2	Sh. Narendra Agarwal
3	Sh. Rajendra Goyal
4	Sh. P. N. Mandola
5	M/s Samta Power
6	M/s Rudrakesh Energy
7	M/s Rajasthan Chamber & Commerce of Industry
8	M/s USAID
9	Sh. R. G. Gupta
10	M/s Udyog Sangh
11	Sh. Bhawmesh Chandra Mathur
12	M/s Binani Cement Ltd.
13	M/s Ultratech Cement Ltd.- Birla White
14	M/s J K Laxmi Cement Ltd.
15	M/s Rajwest Power Ltd.
16	Sh. S K Bhatnagar
17	M/s Jodhpur Industries Association
18	Sh. G. L. Sharma
19	Sh. Subhash Sharma
20	Sh. Purushottamdas Singhal
21	M/s Shree Cement Ltd

Annexure-2

List of Persons Present during the public hearing at Jaipur on 26.4.2011

S.No.	Name
1	Shri A K Godika, Industrial Advisor, RCCI
2	Shri A K Gupta, CE, JVVNL
3	Shri A K Joshi, CAO, JVVNL
4	Shri Ajeet Saxena, XEN (Comml.), JVVNL
5	Shri Amarjit Singh, Dy. General Manager, Shree Cement Ltd.
6	Shri Arjun Singh, SE, JVVNL
7	Shri Ashish Meshram, Project Analyst, Tetra Tech ES Inc
8	Shri B B Malik, MD, NIPL, Jaitpura
9	Shri B Bhargava, Jt. VS, M/S DSCL, Kota
10	Shri B L Khamesra, M D, Jodhpur Discom
11	Shri B M Sanadhaya, Director, Samta Power
12	Shri B S Meel
13	Shri D C Bhurat, CE (HQ), JdVVNL
14	Shri D D Lohiya, President, Jodhpur Industrial Association
15	Shri D K Jain, CAO (W&M), JdVVNL
16	Shri D S Agarwal, Consultant, Rudraksh Energy
17	Shri Deepak Srivastava, Director (F), Discom
18	Shri Er. Y K Bolia, Director, Samta Power
19	Shri F S Meena, CE (Comml.), JVVNL
20	Shri G D Kanoongo, MD, Shiva Steel
21	Shri G L Sharma, Individual
22	Shri G L Tiwari, Director (F), Jodhpur Discom
23	Shri G R Choudhary, Dy CE (Coml), AVVNL
24	Shri Ganesh Berwal, Social Worker, Alks
25	Shri Gopal Das Gupta, Partner, Rajasthan Electric Ind.
26	Shri H M Chordia, Member, Samata Power
27	Shri Hari Prasad Yogi, President, Consumer Legal Help Society
28	Shri Jitender Singh, Director, RVVS
29	Shri K L Gupta, CAO, JVVNL
30	Shri Kuldeep Ranka, Chairman, Discom
31	Shri L N Soni, XEN, JdVVNL
32	Shri Mamraj Singh Choudhary
32	Shri Mohameed Iqbal, SE, JdVVNL
33	Shri N M Sareen, Consultant, JVVNL
34	Shri P C Jain, Objector
35	Shri P N Bhandari, Advocate
37	Shri P S Jat, M D, Ajmer Discom
38	Shri Padam C Jain, Objector
39	Shri R C Modi, JT. VP (E), S DSCL, kota
40	Shri R K Dixit, SE (Comml.), JVVNL
41	Shri R L Chechani, Principal Consultant, PWC
42	Shri R L Verma, Statistical Advisor
43	Shri Radheyshyam Saini

Annexure-2

List of Persons Present during the public hearing at Jaipur on 26.4.2011

S.No.	Name
44	Shri Ramesh Sodhani, Member, Lok Sampatti Sanraksh Samiti
45	Shri S K Kakkar, Objector
46	Shri S M Mathur, CAO, AVVNL
47	Shri S N Bhargav, Convenor Power Committee, Jodhpur Industrial Association
48	Shri S R Agarwal, President, Raj. Steel Chamber
49	Shri Sanjeev Khanna, CE, NEI Ltd.
50	Shri Sanwarmal Bilaval, Social Worker
51	Shri Subhashish Sharma
52	Shri Subodh Kumar Bhatnagar, Objector
52	Shri Suresh Agrawal, GM, NEI Ltd.
52	Shri T S Sharma, XEN (MIS) JVVNL

Power Purchase Quantum and Cost for FY 2011-12														Annexure-4				
Source of Power (Station wise)	Net Generation (MU)	Total Annual Fixed charges FY 2011-12 (Rs Cr.)	Variable Cost for FY 2011-12 (Rs./unit)	JVNL				AVVNL				JdVVNL						
				Net Generation (MU)	Total Variable Cost (Rs. Cr.)	Total Fixed Cost (Rs. Cr.)	Total Cost JVNL (Rs. Cr.)	Net Generation (MU)	Total Variable Cost (Rs. Cr.)	Total Fixed Cost (Rs. Cr.)	Cost (Rs. Cr.)	Net Generation (MU)	Total Variable Cost (Rs. Cr.)	Total Fixed Cost (Rs. Cr.)	Total Cost (Rs. Cr.)			
NTPC																		
ANTA GTPS	514	21	2.94	195.35	57.43	7.88	65.31	159.36	46.85	6.43	53.28	159.36	46.85	6.43	53.28			
AURIYA GTPS	403	17	2.91	152.95	44.49	6.29	50.78	124.78	36.29	5.13	41.43	124.78	36.29	5.13	41.43			
DADRI GTPS	492	23	2.86	187.06	53.42	8.66	62.09	152.60	43.58	7.07	50.65	152.60	43.58	7.07	50.65			
FARAKKA STPS	74	4	3.17	27.94	8.86	1.36	10.22	22.79	7.23	1.11	8.34	22.79	7.23	1.11	8.34			
KAHALGAON II (unit	143	12	2.23	54.31	12.09	4.54	16.63	44.31	9.86	3.70	13.56	44.31	9.86	3.70	13.56			
KAHALGAON-2 STPS	566	40	2.90	215.20	62.37	15.22	77.58	175.56	50.88	12.42	63.29	175.56	50.88	12.42	63.29			
RIHAND STPS	771	43	1.50	293.15	44.02	16.21	60.23	239.15	35.91	13.22	49.13	239.15	35.91	13.22	49.13			
RIHAND 2 STPS	910	71	1.51	345.64	52.26	27.16	79.42	281.97	42.63	22.16	64.79	281.97	42.63	22.16	64.79			
SINGRAULI STPS	2539	63	1.72	964.69	166.12	23.87	189.99	786.98	135.52	19.47	154.99	786.98	135.52	19.47	154.99			
TALCHAR STPS	27	0	1.53	10.37	1.58	0.18	1.76	8.46	1.29	0.15	1.44	8.46	1.29	0.15	1.44			
Unchahar I	156	8	2.25	59.17	13.30	3.07	16.37	48.27	10.85	2.51	13.35	48.27	10.85	2.51	13.35			
Unchahar II	317	21	2.15	120.53	25.94	8.08	34.03	98.33	21.16	6.59	27.76	98.33	21.16	6.59	27.76			
Unchahar III	182	20	2.06	69.05	14.21	7.77	21.98	56.33	11.59	6.34	17.93	56.33	11.59	6.34	17.93			
Total :	7093	343		2695	556	130	686	2199	454	106	560	2199	454	106	560			
NHPC																		
SALAL HEP	96	3	0.46	36.34	1.68	1.24	2.92	29.65	1.37	1.01	2.38	29.65	1.37	1.01	2.38			
TANAKPUR HEP	42	3	0.83	15.98	1.33	1.28	2.61	13.04	1.08	1.04	2.13	13.04	1.08	1.04	2.13			
CHAMERA-I	472	24	1.02	179.30	18.26	9.29	27.55	146.27	14.90	7.58	22.48	146.27	14.90	7.58	22.48			
CHAMERA-II	153	27	1.53	57.99	8.89	10.23	19.12	47.31	7.25	8.35	15.60	47.31	7.25	8.35	15.60			
URI HEP	271	15	1.19	103.08	12.23	5.80	18.03	84.09	9.98	4.73	14.71	84.09	9.98	4.73	14.71			
DHAULIGANGA HEP	117	14	2.65	44.36	11.74	5.27	17.01	36.19	9.58	4.30	13.88	36.19	9.58	4.30	13.88			
DHULASTI	257	43	2.96	97.73	28.94	16.34	45.28	79.73	23.61	13.33	36.94	79.73	23.61	13.33	36.94			
Sewa-II	42	9	1.01	16.12	1.62	3.40	5.03	13.15	1.33	2.78	4.10	13.15	1.33	2.78	4.10			
Total :	1450	139		551	85	53	138	449	69	43	112	449	69	43	112			
Lignite based plants**	2500	0		950.00			276.45	775.00			225.53	775.00			225.53			
SJVNL:Nathpa-Jhakri	566	75	1.55	215.19	33.44	28.50	61.94	175.55	27.28	23.25	50.53	175.55	27.28	23.25	50.53			
NPCIL																		
NAPP 1&2	181	0	2.13	68.85	14.68	0.00	14.68	56.17	11.97	0.00	11.97	56.17	11.97	0.00	11.97			
RAPP-II	1301	0	2.85	494.46	140.70	0.00	140.70	403.38	114.78	0.00	114.78	403.38	114.78	0.00	114.78			
RAPP-III	535	0	2.91	203.20	59.13	0.00	59.13	165.77	48.24	0.00	48.24	165.77	48.24	0.00	48.24			
RAPP-IV	535	0	2.91	203.20	59.13	0.00	59.13	165.77	48.24	0.00	48.24	165.77	48.24	0.00	48.24			
RAPP-V	268	0	3.42	101.96	34.90	0.00	34.90	83.18	28.47	0.00	28.47	83.18	28.47	0.00	28.47			
RAPP-VI (220 MW)	268	0	3.42	101.96	34.90	0.00	34.90	83.18	28.47	0.00	28.47	83.18	28.47	0.00	28.47			
Total (D) :	3089	0		1174	343	0	343	957	280	0	280	957	280	0	280			
State Gen. & Other																		
RVUN																		
Suratgarh I to V	8193	628	2.46	3113.3	765.15	238.55	1003.7	2539.8	624.21	194.60	818.81	2539.8	624.21	194.60	818.81			
STPS-VI	1639	208	2.43	622.66	151.54	78.90	230.44	507.96	123.62	64.37	187.99	507.96	123.62	64.37	187.99			
KTPS-VII*	1355	148	1.97	514.90	101.43	56.26	158.53	420.05	82.74	45.90	129.33	420.05	82.74	45.90	129.33			
KTPS - I to VI*	7264	294	2.06	2760.32	567.29	111.86	683.69	2251.84	462.79	91.25	557.75	2251.84	462.79	91.25	557.75			
Ramgarh tps	646	37	1.91	245.45	46.97	13.92	60.89	200.24	38.32	11.36	49.67	200.24	38.32	11.36	49.67			
Dholpur GTPP (unit 1)	750	63	2.46	284.88	70.07	23.87	93.94	232.40	57.16	19.47	76.63	232.40	57.16	19.47	76.63			
Dholpur GTPP (unit 2)	750	63	2.46	284.88	70.07	23.87	93.94	232.40	57.16	19.47	76.63	232.40	57.16	19.47	76.63			
Dholpur GTPP (unit 3)	750	63	2.46	284.88	70.07	23.87	93.94	232.40	57.16	19.47	76.63	232.40	57.16	19.47	76.63			
Chhabra-I(250MW)	1599	213	1.45	607.50	87.97	80.99	168.96	495.59	71.77	66.07	137.84	495.59	71.77	66.07	137.84			
Chhabra-II(250MW)	1066	142	1.45	405.00	58.65	53.99	112.64	330.39	47.84	44.05	91.89	330.39	47.84	44.05	91.89			
mahi PH -1	42	5	0.25	15.96	0.40	1.92	2.32	13.02	0.33	1.57	1.89	13.02	0.33	1.57	1.89			
mahi PH -1	76	9	0.25	28.73	0.72	3.46	4.17	23.44	0.59	2.82	3.41	23.44	0.59	2.82	3.41			
MMH	2	0	3.97	0.79	0.31	0.12	0.44	0.64	0.26	0.10	0.36	0.64	0.26	0.10	0.36			
Total (E) :	24130	1873		9169	1991	712	2708	7480	1624	580	2209	7480	1624	580	2209			
Shared Projects																		
Total Shared Projects	3178			1207.64			46.75	985.18			38.14	985.18			38.14			
OTHERS																		
Tehri Hydro	250.6	62	2.39	95.23	22.80	23.52	46.32	77.69	18.60	19.19	37.78	77.69	18.60	19.19	37.78			
Tala	53.13	0	1.94	20.19	3.92	0.00	3.92	16.47	3.20	0.00	3.20	16.47	3.20	0.00	3.20			
RFF	182.5	0	3.50	182.50	63.81	0.00	63.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
Total (G) :	486.2	61.89		297.92	90.53	23.51	114.049	94.15	21.79	19.18	40.98	94.15	21.79	19.18	40.98			
NCES																		
Wind Farms	1778	0	4.00	675.64			270.26	551.18			220.47	551.18			220.47			
Bio-Mass	463.9	0	4.75	176.31			83.75	143.83			68.32	143.83			68.32			
CPPs	40	0	3.08	15.20			4.68	12.40			3.81	12.40			3.81			
Solar incl bundled	276	0	4.81	104.88			50.45	85.56			41.15	85.56			41.15			

Power Purchase Quantum and Cost for FY 2011-12											Annexure-4				
Source of Power (Station wise)	Net Generation (MU)	Total Annual Fixed charges FY 2011-12 (Rs Cr.)	Variable Cost for FY 2011-12 (Rs./unit)	JVVNL				AVVNL				JdVVNL			
				Net Generation (MU)	Total Variable Cost (Rs. Cr.)	Total Fixed Cost (Rs. Cr.)	Total Cost JVVNL (Rs. Cr.)	Net Generation (MU)	Total Variable Cost (Rs. Cr.)	Total Fixed Cost (Rs. Cr.)	Cost (Rs. Cr.)	Net Generation (MU)	Total Variable Cost (Rs. Cr.)	Total Fixed Cost (Rs. Cr.)	Total Cost (Rs. Cr.)
Total (I) :	2557.	0		972.02			409.12	792.97			333.76	792.97			333.76
Other short term															
Interdiscom	0		3.00	151.59	45.48	0.00	45.48	-248.67	-74.60	0.00	-74.60	97.08	29.12	0.00	29.12
CPP,Exchange,UI & BILATERAL	5622.50		4.00	3427.52	1371.01	0.00	1371.01	0.00	0.00	0.00	0.00	2194.98	877.99	0.00	877.99
Total (K)	5622.			3579.1	1416.4	0.00	1416.4	-	-74.60	0.00	-74.60	2292.0	907.11	0.00	907.11
Total Available	50672			20811	4515	947	6200	13660	2401	772	3775	16201	3383	772	4757

*incentive added Rs. 5.39 Cr. for JVVNL & 4.39 Cr. for AVNL & JdVVNL each

* For Shared Projects & Non conventional Cost is shown only in Total Cost

** As the Commission has taken lumpsum cost for estimation purpose for Lignite based plants its effect is shown only in total cost