

Petition for Tariff
&
Aggregate Revenue Requirement (ARR)
for FY 2015-16 For
Ramgarh Gas & Thermal Power Plant (RGTPP)

Submitted to
Rajasthan Electricity Regulatory Commission
Jaipur
by
Rajasthan Rajya Vidyut Utpadan Nigam Limited
Vidyut Bhavan, Janpath, Jaipur

Novemeber-2014

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Definitions

Act	The Electricity Act, 2003
Application	This ARR and Tariff Petition for FY 2015-16 for Ramgarh Gas and Thermal Power Station of Rajasthan Rajya Vidyut Utpadan Nigam Limited, Jaipur
Auxiliary Consumption (Aux. Con.)	Auxiliary Consumption in relation to a period means the quantum of energy consumed by auxiliary equipment of the generating station and transformer losses within the generating station, and shall be expressed as a percentage of the sum of gross energy generated at the generator terminals of all the units of the generating station
Availability	Availability shall have the same meaning as defined in Section 2(7) of the RERC Tariff Regulations 2014.
Distribution Company / Discoms	Discoms or Distribution Company shall mean a company engaged primarily in the business of distribution & supply of electricity in its area of supply including Jaipur Vidyut Vitran Nigam Ltd. (JVVN), Ajmer Vidyut Vitran Nigam Ltd. (AVVN) and Jodhpur Vidyut Vitran Nigam Ltd. (JdVVN).
Gross Calorific Value (GCV)	Gross Calorific Value in relation to a thermal power generating station means the heat produced in kCal by complete combustion of one kilogram of solid fuel or one litre of liquid fuel or one standard cubic meter of gaseous fuel, as the case may be.
Regulation	The Rajasthan Electricity Regulatory Commission (The Rajasthan Electricity Regulatory Commission (Terms and Conditions for Determination of Tariff) Regulations, 2014 notified by RERC on March-27, 2014
State	The State of Rajasthan.
Gross Station Heat Rate	Heat energy input in kCal required to generate one unit (kWh) of electrical energy at generator terminals.
Unit	Unit in relation to a generating station means electric generator, its prime mover and auxiliaries and in relation to a combined cycle thermal power generating station includes combustion turbine – generators, associated waste heat recovery boilers, connected steam turbine-generator and auxiliaries

ABBREVIATIONS

ARR	Aggregate Revenue Requirement
Ajmer Discom	Ajmer Vidyut Vitran Nigam Limited
CSR	Corporate Social Responsibility
FRP	Financial Restructuring Plan
FY	Financial Year
FY – 14	Financial Year 2013-2014
FY – 15	Financial Year 2014-2015
FY – 16	Financial Year 2015-2016
GCV	Gross Calorific Value
GFA	Gross Fixed Assets
GoI	Government of India
GoR	Government of Rajasthan
Jaipur Discom	Jaipur Vidyut Vitran Nigam Limited
Jodhpur Discom	Jodhpur Vidyut Vitran Nigam Limited
KWh	Kilo Watt Hour or Unit
MU	Million Units
MW	Megawatts
NRLDC	Northern Regional Load Despatch Centre
PLF	Plant Load Factor
PPA	Power Purchase Agreement
R&M	Repairs and Maintenance
RERC/ Commission	Rajasthan Electricity Regulatory Commission
RVUN	Rajasthan Rajya Vidyut Utpadan Nigam Limited
RVPN	Rajasthan Rajya Vidyut Prasaran Nigam Limited
Rs.	Indian Rupees
SHR	Station Heat Rate
Transfer Scheme	The Rajasthan Power Sector Reforms Transfer Scheme, 2000

A1: BACKGROUND

- 1.1 Rajasthan Rajya Vidyut Utpadan Nigam Ltd (RVUN) was incorporated under the Companies Act 1956, as one of the five successor companies of erstwhile Rajasthan State Electricity Board (RSEB) to take over the electricity generation business in the state of Rajasthan. The existing power stations and those under commissioning in the state sector were transferred to RVUN as per the Rajasthan Power Sector Reforms Transfer Scheme, 2000 notified by State Government provisionally on 19th July 2000 and finally on 18th January 2002.
- 1.2 From 1st April 2004 onwards, RVPN is no longer responsible for the bulk purchase of power in Rajasthan. The capacity allocated to RVPN from RVUN generating stations has been reallocated to the three Discoms (Jaipur, Ajmer and Jodhpur) in the ratio of 39:29:32 from October 2011, 40:28:32 from June 2014 or as modified by competent authority from time to time. RVUN has entered into Long Term Power supply-Purchase Agreements (PPA) in respect of existing and future power projects for 25 Years with the three Discoms on 28.09.06 , 07.06.2007 and further supplementary PPA was signed on date 18.5.10 which includes RGTPP (110.50 MW).
- 1.3 RGTPS 110.5 MW satge 1 & 2 has achieved COD in three phases (GT 1 (35.5 MW) dated 12/01/1996, GT 2 (37.5 MW) dated 07/08/2002 and STG (37.5 MW) dated 31/03/2003 and RGTPS 160 MW satge 3 has achieved COD in two phases (GT (110 MW) dated 06/12/2013 and STG (50 MW) dated 07/06/2014).
- 1.4 RVUN have to file its petition for determination of ARR and Tariff Petition for 2015-16 in accordance with provision of RERC tariff regulation 2014. Accordingly this petition is being submitted for RGTPP 110.50 MW and 160 MW for FY 2015-16 before RERC for ARR and Tariff determination. The figures for 2013-14, 2014-15 and FY 2015-16 are un-audited and estimated.

A2: GENERATION FORECAST

- 2.1 The installed capacity of RGTPP is 110.50 MW and 160 MW. The estimated figures of Gross generation, PLF & net energy sale to three Discoms from RGTPP station of RVUN for the period FY 2013-14, FY 2014-15 and FY 2015-16 are as shown in table below:

Table 1: Gross generation, PLF & Ex-bus energy sale from RGTPP Station

Particulars	FY 13-14		FY 14-15		FY 15-16	
	110.50	110.00	110.5	160.00	110.5	160
Capacity (MW)	110.50	110.00	110.5	160.00	110.5	160
PLF (%)	52.34%	54.42%	50.73%	53.00%	70.00%	70.00%
Gross generation (MU)	506.64	166.66	491.08	699.58	679.44	983.81
Aux Cons. (%)	4.18%	0.63%	4.70%	4.55%	5.00%	3.00%
Net Generation (MU)	485.46	165.61	467.98	667.73	645.47	954.29

- 2.2 The fixed cost elements as detailed hereunder for RGTPP for the FY 2013-14, FY 2014-15 and FY 2015-16 are as below.

FIXED CHARGES

A3: RGTPP (110.5 MW AND 160 MW) ANNUAL CAPACITY (FIXED) CHARGES FOR 2015-16

Depreciation:-

- 3.1 As on the date of COD of RGTPP 160 MW, RVUN has incurred an expenditure to the tune of Rs 559.39 crore and further during the FY 2014-15 and FY 2015-16 RVUN is expected to incurred Rs. 247.36 crore and Rs. 114.86 crore respectively.
- 3.2 Depreciation of RGTPP FY FY 2013-14 has been calculated as per clause No.23 of RERC Tariff Regulations 2009 and FY 2014-15 and FY 2015-16 as per clause No. 22 of RERC Tariff Regulations 2014. Estimated figures of depreciation for FY 2013-14, FY 2014-15 and FY 2015-16 are summarised in table below:

Table 2: Depreciation (Rs. in Crore)

Station	FY 13-14		FY 14-15		FY 15-16	
RGTPS	110.5	110	110.5	160	110.5	160
Depriciation	14.92	9.14	14.92	39.12	14.92	44.45

Interest on Loans:-

- 3.3 The loan-wise interest expenses which include term loans as well as transitional loans have been worked-out and taken as part of fixed cost along with finance charges. The loan repayment amount for term loans and other loans combined has been taken equal to the depreciation figure envisaged for FY 2013-14, FY 2014-15 and FY 2015-16.
- 3.4 Estimated figures for interest on term loan, other loan and finance charges are summarised in table below:

Table 3: Interest on Loans (Rs. In Crore)

Particular	FY 13-14		FY 14-15		FY 15-16	
	110.5	110	110.5	160	110.5	160
Interest and finance charges	0.23	17.65	0.00	73.46	0.00	80.01
Total	0.23	17.65	0.00	73.46	0.00	80.01

Interest on working Capital

- 3.5 The interest on working capital loan for FY 2013-14 has been computed as per the norms defined under clause No.28 of RERC Tariff regulation 2009 and for FY 2014-15 and FY 2014-15 as per clause No. 27. For FY 2013-14, FY 2014-15 and FY 2015-16, the rate of interest on WLC has taken equal to 250 basis points higher than the average Base Rate of State Bank of India prevalent during first six months of the previous year.
- 3.6 Estimated figures of Interest on Working Capital Loan is summarised as below:

Table 4: Interest on working Capital (Rs. in Crore)

Station	FY 13-14		FY 14-15		FY 15-16	
RGTPS	110.5	110	110.5	160	110.5	160
Interest on Working Capital	5.57	2.29	5.69	8.41	5.44	8.50

Operation & Maintenance Expenses

- 3.7 The Operation & Maintenance Expenses have been computed as per the norms prescribed under Regulation 48 & 47 of RERC Tariff Regulation 2009 & 2014 respectively.
- 3.8 Estimated un-audited Figures for the period FY 2013-14, FY 2014-15 and FY 2015-16 are summarised in table below:

Table 5: O & M Expenses (Rs. in Crore)

Station	FY 13-14		FY 14-15		FY 15-16	
RGTPS	110.5	110	110.5	160	110.5	160
Operation and Maintenance	15.28	3.98	16.18	19.30	17.12	20.42

Recovery of ARR & Tariff Petition Fees

- 3.9 The Hon'ble Commission vide order dated 10.03.08 has allowed to pass through the fees levied for filling up of ARR & Tariff Petition, as expenses in the ARR. Accordingly, RVUN has claim the fee as under. The Commission may consider and allow the same.
- 3.10 The ARR & Tariff Petition Fees for FY 2013-14, FY 2014-15 and FY 2015-16 are summarised in table below:

Table 6: Recovery of ARR & Tariff Petition Fees (Rs. in Crore)

Station	FY 13-14		FY 14-15		FY 15-16	
RGTPS	110.5	110	110.5	160	110.5	160
Petition Fee	0.06	0.06	0.06	0.08	0.06	0.08

Insurance Charges

- 3.11 RVUN is claiming the insurance charges for FY 2015-16 are based on RERC tariff Regulation 2014. The details are shown in the table below:

Table 7: Insurance Charges (Rs. in Crore)

Station	FY 13-14		FY 14-15		FY 15-16	
RGTPS	110.5	110	110.5	160	110.5	160
Insurance Charges	0.28	0.55	0.25	0.78	0.22	1.59

Return on Equity (ROE) and Tax

- 3.1 GOR (Government of Rajasthan) has made an announcement for ROE in annual budget. Accordingly the BOD of RVUN in its 238th meeting dated 24/07/2014 has approved to claim ROE and vide letter dated 14.08.2014 the Dy. Secretary to Govt. directed RVUN to implement the budget announcement enclosed as annexure A.
- 3.2 In compliance to the above direction of the state government, RVUN has decided to claim the return on equity for the FY 2015-16 along with the MAT (Minimum Alternative Tax) as per Regulation 20 & 29 respectively of Rajasthan Electricity Regulatory Commission (Terms and Conditions for Determination of Tariff) Regulations, 2014.
- 3.3 The Return on Equity (ROE) for FY 2013-14, FY 2014-15 and FY 2015-16 are summarised in Table below:

Table 8: ROE and Tax

Station	FY 13-14		FY 14-15		FY 15-16	
RGTPS	110.5	110	110.5	160	110.5	160
Return on Equity	0.00	0.00	18.61	23.62	18.61	26.79
Tax on Return on Equity	0.00	0.00	4.94	6.26	4.94	7.10

A4: NON-TARIFF INCOME

- 3.4 The following are the main head of accounts of Non tariff income:
- Sale of Scrap
 - Interest on FD/ Staff Loans
 - Miscellaneous receipts (rebates etc)
- 3.5 Estimated figures of Non Tariff Income for FY 2013-14, FY 2014-15 and FY 2015-16 are summarised in table below:

Table 9: Non-Tariff Income (Rs. in Crore)

Station	FY 13-14		FY 14-15		FY 15-16	
RGTPS	110.5	110	110.5	160	110.5	160
Non Tariff Income	0.08	0.40	0.08	0.42	0.08	0.44

- 3.6 As per the RERC Tariff Regulations 2009 and 2014, the non-tariff income has been deducted from the fixed charges computed and only the net fixed charges are to be recovered from the three distribution companies.

A5: RGTPP ESTIMATED CAPACITY CHARGES (FIXED)

- 3.7 The net fixed charges is computed for FY 2013-14, FY 2014-15 and FY 2015-16 in the table below:

Table 10: Net Capacity Charges for RGTPP (Rs. in Crore)

Particulars	FY 13-14		FY 14-15		FY 15-16	
RGTP	110.5	110	110.5	160	110.5	160
Fixed Charges						
Depreciation	14.92	9.14	14.92	39.12	14.92	44.45
Interest on term Loan & Transitional Loan	0.23	17.65	0.00	73.46	0.00	80.01
Return on Equity	0.00	0.00	18.61	23.62	18.61	26.79
Interest on Working Capital	5.57	2.29	5.69	8.41	5.44	8.50
O & M Expenses	15.28	3.98	16.18	19.30	17.12	20.42
Insurance Charges	0.28	0.55	0.25	1.31	0.22	1.59
Tax on ROE	0.00	0.00	4.94	6.26	4.94	7.10
Recovery of ARR and Tariff Petition Fee	0.06	0.06	0.06	0.08	0.06	0.08
Less: Non-Tariff income	0.08	0.40	0.08	0.42	0.08	0.44
Net Fixed Charges	36.26	33.28	60.57	171.14	61.23	188.49

A6: VARIABLE CHARGES

- 3.8 The Tariff Regulations, 2014 for RGTPS (110.50) MW allows SHR 1950 kCal/kWh for combined cycle and SHR 2850 kcal/kWh for open cycle. RVUN has computed the SHR of 2256 kCal/ kWh considering 34% weight for open cycle and 66 % for combined cycle. Auxiliary consumption is considered as 5.00 % for RGTPP 110.5 MW. These figures have considered in the calculations of variable charges for FY 2015-16. Further for RGTPS stage III (160 MW) the RVUN has considered SHR of 1950 kCal/kWh and auxiliary consumption of 3% for FY 2015-16.
- 3.9 For estimates of FY16, the Gross calorific value of the gas/oil and the average rate of gas/oil supply have been calculated on the basis of receipts of previous three months during April, May and June of 2014 as per Commission's formats. For FY 2015-16, GCV of Natural Gas has been considered as 6539.66 KCal/SCM for 110.50 MW and 8686.638 kCal/SCM for RGTPS stage - 3 (160 MW) and the price of Natural Gas has been taken as Rs. 8449.54 per Th. Scm. and Rs. 12068.13 per Th. Scm for 110.50 MW and 160 MW respectively. The GCV of secondary fuel (OIL) been considered as 9300 KCal/ltr. for HSD for 110.5 MW. Price of HSD has been taken as Rs. 42155.68/kl for 110.50 MW.
- 3.10 The overall estimated figures of variable Cost for the period under consideration, are summarised in Table below:

Table 11: Variable Cost (Rs. in Crores)

Particulars	Units	FY 2013-14		FY 2014-15		FY 2015-16	
Operational Parameters							
Total Capacity	MW	110.50	110.00	110.50	160.00	110.50	160.00
Availability	%	82.80%	87.39%	70.00%	70.00%	70.00%	70.00%
PLF	%	52.34%	54.39%	50.73%	53.00%	70.00%	70.00%
Gross Generation	MU	506.64	166.66	491.08	699.58	679.44	983.81
Auxiliary Energy Consumption	%	4.18%	0.63%	4.70%	4.55%	5.00%	3.00%
Auxiliary Energy Consumption	MU	21.18	1.05	23.10	31.85	33.97	29.51
Net Generation	MU	485.46	165.61	467.98	667.73	645.47	954.29
Heat Rate	kcal/kWh	2482.39	3449.89	3715.13	2673.18	2256.00	1950.00
Gross Calorific Value							
Fuel - 1 (Natural Gas)	kcal/SCM	4798.35	7642.85	6539.66	8686.64	6539.66	8686.64
Fuel - 2 (HSD)	kcal/Ltr.	9300.00	0.00	9300.00	-	9300.00	0.00
Landed Fuel Price per unit (Please specify the fuel)							
Fuel - 1 (Natural Gas)	Rs/Th. SCM	8183.42	10436.07	7395.48	11716.63	7617.34	12068.13
Fuel - 2 (HSD)	Rs/KL	32371.56	0.00	39922.38	-	42155.68	0.00
Specific Fuel Consumption							
Fuel - 1 (Natural Gas)	SCM/kWH	0.52	0.45	0.57	0.31	0.34	0.22
Fuel - 2 (HSD)	ML/kWH	0.07	0.00	0.20	0.00	0.50	0.00
Total Fuel Consumption							
Fuel - 1 (Natural Gas)	th. SCM	262040.32	75228.04	278834.59	215283.94	233905.43	220847.88
Fuel - 2 (HSD)	Kl	34.59	0.00	99.76	0.00	339.72	0.00
Heat Content (each fuel separately)							
Fuel - 1 (Natural Gas)	Million kcal	1257359.86	574956.31	1823484.18	1870093.65	1529662.65	1918425.60
Fuel - 2 (HSD)	Million kcal	321.67	0.00	927.73	0.00	3159.41	0.00
Total Heat Content	0	1257681.53	574956.31	1824411.91	1870093.65	1532822.05	1918425.60
Total Fuel Cost							
Fuel - 1 (Natural Gas)	Rs Crore	214.44	78.51	206.21	252.24	178.17	266.52
Fuel - 2 (HSD)	Rs Crore	0.11	0.00	0.40	0.00	1.43	0.00
Total Fuel Cost	Rs Crore	214.55	78.51	206.61	252.24	179.61	266.52
Cost of Generation per unit	Rs/kWh	4.23	4.71	4.21	3.61	2.64	2.71
Energy Rate per unit sent out	Rs/kWh	4.42	4.74	4.41	3.78	2.78	2.79

A7: ESTIMATED ARR FOR RGTPP

3.11 The recovery of ARR proposed for RGTPP is summarised in table below

Table 12: RGTPP ARR for RGTPP (Rs. in Crores)

Particulars	FY 13-14		FY 14-15		FY 15-16	
RGTPS	110.5	110	110.5	160	110.5	160
Capacity (Fixed Charges)	36.26	33.28	60.57	171.14	61.23	188.49
Variable Cost	214.55	78.51	206.61	252.24	179.61	266.52
Aggregate Revenue Requirement	250.81	111.79	267.18	423.38	240.84	455.02

A8: RGTPP ESTIMATED TARIFF

3.12 Total per Unit charge in Rs. / kWh is given in given table below:-

Table 13: RGTPP ESTIMATED TARIFF

Particulars	FY 13-14		FY 14-15		FY 15-16	
RGTPS	110.5	110	110.5	160	110.5	160
Ex-Bus Generation (MU)	485.46	165.61	467.98	667.73	645.47	954.29
Capacity(fixed) Charges	36.26	33.28	60.57	171.14	61.23	188.49
Variable Cost	214.55	78.51	206.61	252.24	179.61	266.52
Rate of Fixed Charge(Rs/kWh)	0.75	2.01	1.29	2.56	0.95	1.98
Rate of Variable Charge(Rs/kWh)	4.42	4.74	4.41	3.78	2.78	2.79
Rate of Sale of Energy (Rs/kWh)	5.166	6.750	5.709	6.341	3.731	4.77

A9: FUEL COST ADJUSTMENT

3.13 As per RERC Tariff Regulation 2014, there is provision of fuel cost adjustment on account of fuel related costs of electricity generation to take care of any variation in the variable cost. The fuel cost adjustment will be made accordingly.

A11: RESPONDENTS:-

3.14 All the three Discom's (i.e JVVNL/AVVNL/ JdVVNL) Jaipur/ Ajmer/ Jodhpur are respondents for the above petition.

A12: PRAYER

RVUN humbly requests the Hon'ble Commission to:

- ◆ Approval of ARR & tariff for FY-2015-16.
- ◆ To allow provisional tariff w.e.f 1.4.15 for FY 2015-16 till final tariff order is issued as proposed in the petition
- ◆ And pass such other further orders as are deemed fit and proper in the facts and circumstances of the case

(M. K. Khandelwal)
Chief Accounts Officer (IA&C)
RVUN, Jaipur.

(P.S. Arya)
Chief Engineer (PPMC &IT)
RVUN, Jaipur.

Form G 1.1

Summary of Tariff Proposal

Name of the Petitioner

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.

Name of the Power Station /Unit :

Rangarh Gas & Thermal Power Plant

(Rs. Crore)

S.No.	Particulars	Ref.of Form No	FY 2013-14		FY 2014-15					FY 2015-16		Remark	
			Actual/Audited		Approved by the Commission	Apr-Sep (Actual)	Oct - Dec (Actual)	Apr-Sep (Actual)	Oct - Dec (Actual)	Anticipated			
			110.50 MW	110 MW						110.50 MW	160 MW		110.50 MW
1	2	3	4	5	6	7	8	9	10	11	12	13	
1	Capacity (Fixed) Charge												
1.1	Depreciation	6.1	14.92	9.14	1.90	7.46	7.46	19.56	19.56	14.92	44.45		
1.2	Interest on term Loan & Transitional Loan	6.2	0.23	17.65	0.77	0.00	0.00	36.73	36.73	0.00	80.01		
1.3	Return on Equity	6.9	0.00	0.00	0.00	9.31	9.31	11.81	11.81	18.61	26.79		
1.4	Interest on Working Capital	6.11	5.57	2.29	4.51	1.96	3.73	3.51	4.90	5.44	8.50		
1.5	O & M Expenses	4.1	15.28	3.98	16.18	8.09	8.09	9.65	9.65	17.12	20.42		
1.6	Insurance Charges	6.12	0.28	0.55	0.37	0.12	0.12	0.65	0.65	0.22	1.59		
1.7	Tax on ROE	6.13	0.00	0.00	0.00	2.47	2.47	3.13	3.13	4.94	7.10		
1.9	Recovery of ARR and Tariff Petition Fee		0.06	0.06	0.06	0.03	0.03	0.04	0.04	0.06	0.08		
2.1	Less: Non-Tariff income	3.2	0.08	0.40	0.10	0.04	0.04	0.21	0.21	0.08	0.44		
	Total (1)- Capacity (Fixed Charges)		36.26	33.28	23.69	29.40	31.17	84.87	86.27	61.23	188.49		
2	Total- Energy (variable) charges		214.55	78.51	167.91	60.55	146.06	92.31	159.93	179.61	266.52		
3	Units sold to Discoms (MU)		485.46	165.61	661.87	171.96	296.02	226.98	440.74	645.47	954.29		
4	Rate of Fixed Charges. (1/3)		0.747	2.010	0.358	1.710	1.053	3.739	1.957	0.949	1.975		
5	Rate of Variable Charges.				2.520								
5.1	Rate of Energy Charge from Primary Fuel (REC) _p	5.1											
	(i) Natural Gas		4.417	4.741	0.000	3.507	4.930	4.068	3.630	2.760	2.794		
	(ii) Imported Coal		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
	(iii) Any Other fuel												
	Total 2.1												
5.2	Rate of Energy Charge from Secondary Fuel (REC) _s	5.1	0.002	0.000	0.000	0.014	0.005	0.000	0.000	0.022	0.000		
5.3	Total-(2) Rate of Energy Charge ex-bus(REC) ^{3A,3B,3C}	5.1	5.166	6.750	2.878	5.231	5.988	7.807	5.587	3.731	4.769		

Form G 1.2

Aggregate Revenue Requirement

Name of the Petitioner

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.

Name of the Power Station/Unit:

Rangarh Gas & Thermal Power Plant

(Rs. Crore)

S.No.	Particulars	Reference Form	FY 2013-14		FY 2014-15				FY 2015-16		Remarks	
			Actual/Audited	110 MW	Approved by the Commission	Apr-Sep (Actual)	Oct - Dec (Actual)	Apr-Sep (Actual)	Oct - Dec (Actual)	Anticipated		
						110.50 MW	110 MW	110.50 MW	160 MW	110.50 MW		160 MW
1	2	3	4	5	6	7	8	9	10	11	12	13
A	Receipts											
1	Revenue from Sale of Power (Tariff income)	3.1	250.81	111.79	191.60	89.95	177.23	177.18	246.20	240.84	455.02	
2	Non Tariff income		0.08	0.40	0.10	0.04	0.04	0.21	0.21	0.08	0.44	
3	Revenue Subsidies, Grants & Subvention from State Govt.											
	Total- (A)		250.89	112.19	191.70	89.99	177.27	177.39	246.41	240.92	455.46	
B	Expenditure											
1	Variable Costs, including Fuel Cost	5.1	214.55	78.51	167.91	60.55	146.06	92.31	159.93	179.61	266.52	
2	Depreciation	6.1	14.92	9.14	1.90	7.46	7.46	19.56	19.56	14.92	44.45	
3	Interest on term Loan & Finance charges	6.2	0.23	17.65	0.77	0.00	0.00	36.73	36.73	0.00	80.01	
4	Return on Equity	6.9	0.00	0.00	0.00	9.31	9.31	11.81	11.81	18.61	26.79	
5	Tax on ROE	6.15	0.00	0.00	0.00	2.47	2.47	3.13	3.13	4.94	7.10	
6	Interest on Working Capital	6.11	5.57	2.29	4.51	1.96	3.73	3.51	4.90	5.44	8.50	
7	O & M Expenses	4.1	15.28	3.98	16.18	8.09	8.09	9.65	9.65	17.12	20.42	
8	Insurance Charges	6.14	0.28	0.55	0.37	0.12	0.12	0.65	0.65	0.22	1.59	
9	Recovery of ARR and Tariff Petition Fee		0.06	0.06	0.06	0.03	0.03	0.04	0.04	0.06	0.08	
C	Total- (B) Expenditure		250.89	112.19	191.70	89.99	177.27	177.39	246.41	240.92	455.46	
D	A.R.R. (C-A.2)		250.81	111.79	191.60	89.95	177.23	177.18	246.20	240.84	455.02	

Plant Characteristics

Name of the Petitioner

Name of the Power Station/Unit:

Rajasthan Rajya Vidut Utpadan Nigam Limited, Jaipur (Raj.)

Ramgarh Gas & Thermal Power Plant

Basic characteristics of the plant ¹																				
Special Features of the Plant																				
Site Specific Features ²																				
Special Technological Features ³																				
Environmental Regulation related features ⁴																				
Any other special features																				
Fuel Details ⁵																				
Primary Fuel			Secondary Fuel		Alternate Fuels															
Natural Gas			HSD																	
Details																				
Unit number																				
<table border="1"> <thead> <tr> <th>1</th> <th>2</th> <th>3</th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>GT 1</td> <td>GT 2</td> <td>STG</td> <td>STG</td> <td>STG</td> <td></td> <td></td> </tr> </tbody> </table>							1	2	3					GT 1	GT 2	STG	STG	STG		
1	2	3																		
GT 1	GT 2	STG	STG	STG																
Installed Capacity (IC)	35.5	37.5	37.5	110	50															
Date of Commercial Operation (COD)	12-Jan-96	07-Aug-02	31-Mar-03	06-Dec-13	07-Jun-14															
Type of cooling system ⁶																				
Type of Boiler Feed Pump ⁷																				
Pressure (kg/cm ²)																				
Temperature 0C																				
-At Superheater Outlet																				
-At Reheater Outlet																				
Turbine Cycle heat Rate(Kcal/ Kwh)																				
Boiler Efficiency (%)																				
Guaranteed Design Heat rate (kCal/kWh) ₈																				
Conditions on which guaranteed																				
% MCR																				
% Makeup																				
Design Fuel																				
Design cooling water Temperature																				
Back Pressure																				

¹ Describe the basic characteristics of the plant, e.g., in the case of a coal based plant whether it is a conventional steam generator or circulating fluidized bed combustion generator or sub-critical once through steam generator etc.

² Any site specific feature such as Merry-Go-Round, Vicinity to sea, Intake /makeup water systems etc. scrubbers etc. Specify all such features.

³ Any Special Technological feature like Advanced class FA technology in Gas Turbines, etc.

⁴ Environmental regulation related features like FGD, ESP etc.

⁵ Coal or natural gas or naphtha or lignite etc.

⁶ Closed circuit cooling, once through cooling, sea cooling etc.

⁷ Motor driven, Steam turbine driven etc.

⁸ In case guaranteed unit heat rate is not available then furnish the guaranteed turbine cycle heat rate and guaranteed boiler efficiency separately along with condition of guarantee.

Operational Parameters - Generation

Form G 2.2

Name of the Petitioner: Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.
 Name of the Station/Unit: Ramgarh Gas & Thermal Power Plant

S. No.	Particulars	Units	FY 2013-14		FY 2014-15				FY 2015-16		Remarks		
			Audited/Actual		Approved by the Commission	Apr-Sep (Actual)	Oct - Dec (Actual)	Apr-Sep (Actual)	Oct - Dec (Actual)	Anticipated			
			110.50 MW	110 MW						110.50 MW		160 MW	110.50 MW
1	2	3	4	5	6	7	8	9	10	11	12	13	
1	Operational Parameters - Hydel												
1.1	Total Capacity	MW	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1.2	Capacity Index	%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1.3	Design Energy	MU	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1.4	Gross Generation	MU	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1.5	Auxiliary Energy Consumption	%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1.6	Auxiliary Energy Consumption	MU	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1.7	Net Generation	MU	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
2	Operational Parameters - Thermal												
2.1	Total Capacity	MW	110.5	110	110.5	110.5	110.5	160	160	110.5	160		
2.2	Availability	%	82.80%	87.39%	70.00%	67.16%	70.00%	73.07%	70.00%	70.00%	70.00%	70.00%	
2.3	Plant Load Factor	%	52.34%	54.39%	70.00%	37.20%	64.34%	53.59%	66.15%	70.00%	70.00%	70.00%	
2.4	Gross Generation	MU	506.641	166.660	677.590	180.553	310.523	237.240	462.336	679.442	983.808		
2.5	Auxiliary Energy Consumption	%	4.18%	0.63%	2.32%	4.76%	4.67%	4.32%	4.67%	5.00%	3.00%		
2.6	Auxiliary Energy Consumption	MU	21.178	1.050	15.720	8.596	14.501	10.255	21.591	33.972	29.514		
2.7	Net Generation	MU	485.463	165.610	661.870	171.957	296.021	226.985	440.745	645.470	954.294		
2.6	Heat Rate	Kcal/Kwh)	2482.39	3449.89	2256.00	3840.29	3642.39	2906.25	2567.67	2256.00	1950.00		

Revenue from Sale of Power

Name of the Company
Name of the Power Station :Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.
Rangarh Gas & Thermal Power Plant

Year 2013-14 (For 110.50 MW)

Rs. Crore										
S.No.	Particulars	Allocation (in %) /contract demand	Unit Sold (M.U.)	% of total Unit Sold	Demand/fixed Charges @	Energy Charges @	Others, if any	Total (6+7+8)	Average rate/kWh (paisa/kWh)	Remarks
1	2	3	4	5	6	7	8	9	10	11
A)	Revenue from sale of Electricity(as per approved tariff)									
1	Dist.Licensee/trader/ consumers									
(a)	AV/NL		188.33	39.0%	14.14159546	83.7		97.82	516.64	
(b)	AV/NL		140.76	29.0%	10.51534534	62.2		72.74	516.64	
(c)	JDV/NL		155.35	32.0%	11.60336038	68.7		80.26	516.64	
6	Net revenue		485.46		36.26	214.55		250.81		

Year 2013-14 (For 110 MW)

Rs. Crore										
S.No.	Particulars	Allocation (in %) /contract demand	Unit Sold (M.U.)	% of total Unit Sold	Demand/fixed Charges @	Energy Charges @	Others, if any	Total (6+7+8)	Average rate/kWh (paisa/kWh)	Remarks
1	2	3	4	5	6	7	8	9	10	11
A)	Revenue from sale of Electricity(as per approved tariff)									
1	Dist.Licensee/trader/ consumers									
(a)	AV/NL		64.50	39.0%	12.97928727	30.6		43.60	675.01	
(b)	AV/NL		48.03	29.0%	9.631264893	22.8		32.42	675.01	
(c)	JDV/NL		53.00	32.0%	10.64967161	25.1		35.77	675.01	
6	Net revenue		165.61		33.28	78.51		111.79		

Year 2014-15 (For 110.50 MW)

Rs. Crore										
S.No.	Particulars	Allocation (in %) /contract demand	Unit Sold (M.U.)	% of total Unit Sold	Demand/fixed Charges @	Energy Charges @	Others, if any	Total (6+7+8)	Average rate/kWh (paisa/kWh)	Remarks
1	2	3	4	5	6	7	8	9	10	11
A)	Revenue from sale of Electricity(as per approved tariff)									
1	Dist.Licensee/trader/ consumers									
(a)	AV/NL		187.19	40.0%	24.22629128	82.6		106.87	570.91	
(b)	AV/NL		131.03	28.0%	16.9584039	57.9		74.81	570.91	
(c)	JDV/NL		149.75	32.0%	19.38103302	66.1		85.50	570.91	
6	Net revenue		467.98		60.57	206.61		267.18		

Year 2014-15 (For 160 MW)

Rs. Crore										
S.No.	Particulars	Allocation (in %) /contract demand	Unit Sold (M.U.)	% of total Unit Sold	Demand/fixed Charges @	Energy Charges @	Others, if any	Total (6+7+8)	Average rate/kWh (paisa/kWh)	Remarks
1	2	3	4	5	6	7	8	9	10	11
A)	Revenue from sale of Electricity(as per approved tariff)									
1	Dist.Licensee/trader/ consumers									
(a)	AV/NL		267.00	40.0%	68.45546690	100.9		169.35	634.06	
(b)	AV/NL		186.96	28.0%	47.9188269	70.6		118.55	634.06	
(c)	JDV/NL		213.67	32.0%	54.7643736	80.7		135.48	634.06	
6	Net revenue		667.73		171.14	252.24		423.38		

Year 2015-16 (For 110.50 MW)

Rs. Crore										
S.No.	Particulars	Allocation (in %) /contract demand	Unit Sold (M.U.)	% of total Unit Sold	Demand/fixed Charges @	Energy Charges @	Others, if any	Total (6+7+8)	Average rate/kWh (paisa/kWh)	Remarks
1	2	3	4	5	6	7	8	9	10	11
A)	Revenue from sale of Electricity(as per approved tariff)									
1	Dist.Licensee/trader/ consumers									
(a)	AV/NL		258.19	40.0%	24.49181507	71.8		96.33	373.12	
(b)	AV/NL		180.73	28.0%	17.14427055	50.3		67.43	373.12	
(c)	JDV/NL		206.55	32.0%	19.59345206	57.5		77.04	373.12	
6	Net revenue		645.47		61.23	179.61		240.84		

Year 2015-16 (For 160 MW)

Rs. Crore										
S.No.	Particulars	Allocation (in %) /contract demand	Unit Sold (M.U.)	% of total Unit Sold	Demand/fixed Charges @	Energy Charges @	Others, if any	Total (6+7+8)	Average rate/kWh (paisa/kWh)	Remarks
1	2	3	4	5	6	7	8	9	10	11
A)	Revenue from sale of Electricity(as per approved tariff)									
1	Dist.Licensee/trader/ consumers									
(a)	AV/NL		381.72	40.0%	75.39756547	106.6		182.01	476.81	
(b)	AV/NL		267.50	28.0%	52.77829583	74.6		127.40	476.81	
(c)	JDV/NL		305.37	32.0%	60.31805237	85.3		145.61	476.81	
6	Net revenue		954.29		188.49	266.52		455.02		

NON-TARIFF INCOME

Form G 3.2

Name of the Petitioner
Name of the Power Station/ Unit:Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.
Rangarh Gas & Thermal Power Plant

Rs. Crore

S.No	Particulars	FY 2013-14		Approved by the Commission	FY 2014-15				FY 2015-16		Remarks	
		(Actuals/audited)			Apr-Sep (Actual)	Oct - Dec (Actual)			(Anticipated)			
		110.50 MW	110 MW		110.50 MW	160 MW			110.50 MW	160 MW		
1	2	3	4	5	6	7	8	9	10	11	12	
	Non-tariff income											
i.	Interest on loans and advances to employees											
ii.	Interest on loans and advances to suppliers/contractors											
iii.	Interest and other income from investments and deposits											
iv.	Income from rent on land/building											
v.	Income from sale of scrap											
vi.	Interest on subvention received from govt.											
vii.	Net Income from sale of power to housing colony/ township for its staff											
viii.	Income from sale of ash/rejected coal											
ix.	Rebate for early payment											
x.	Income from advertisement											
xi.	Other miscellaneous receipts	0.08	0.40		0.04	0.04	0.21	0.21	0.08	0.44		
	Total non-tariff income	0.08	0.40	0.10	0.04	0.04	0.21	0.21	0.08	0.44		

REVENUE SUBSIDIES & GRANTS

Name of the Petitioner: Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.
 Name of the Power Station/Unit : Ramgarh Gas & Thermal Power Plant

S. No.	Particulars	Previous year (n-1)	Current Year (n)			Ensuing Year (n+1)	Remarks
		(Actuals/audited)	Approved by the Commission	Apr-Sep (Actual)	Oct - Dec (Actual)	(Anticipated)	
1	2	3	4	5	6	7	8
A)	Revenue Subsidies & Grants	N.A.					
1	Subvention from State Government towards sale of electricity						
2	State Govt. Grant against addl. Intt. Liability on Company						
3	Any Other item						
	Total						

Capital Subsidies and Grants

Name of the Petitioner:

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.

Name of the Power Station/Unit :

Ramgarh Gas & Thermal Power Plant

Rs. Crore

S. No.	Particulars	Previous year	Current Year		Ensuing Year (t	Remarks	
		(Actuals / audited)	Approved by the Commission	Apr-Sep (Actual)	Oct - Dec (Actual)		(Anticipated)
1	2	3	4	5	6	7	8
A	Capital Cost						
	Subsidy towards cost of Capitals Asset						
	Grant towards cost of Capitals Assets				N.A		
	Receipts from State Govt. under any scheme as grant/subsidy						
	Total						

Form G 4.1

O&M Expenses

Name of the Petitioner:
Name of the Station/Unit:

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.
Ramgarh Gas & Thermal Power Plant

(Rs. Crore)

S.No.	Particulars	FY 2013-14		Approved by the Commission	FY 2014-15				FY 2015-16	
		(Actuals/audited)			Apr-Sep (Actual)	Oct - Dec (Actual)	Apr-Sep (Actual)	Oct - Dec (Actual)	(Anticipated)	
		110.50 MW	110 MW		110.50 MW		160 MW		110.50 MW	160 MW
1	2	3	4	5	6	7	8	9	10	11
1	O&M Expense norms (Rs. per MW)	0.138	0.114		0.07	0.07	0.06	0.06	0.15	0.13
2	Total Capacity in MW	110.5	110		110.5	110.5	160	160	110.5	160
3	O&M expense	15.28	3.98		8.09	8.09	9.65	9.65	17.12	20.42
4	Special O&M expense for Water pipe lines>50 km									
a	Details of Water pumping Stations beyond 50 K.M. from Water intake point									
b	<u>Pumping Station No.1 :-</u>									
b.1	Power consumption Cost									
b.2	Repair / Maintenance / Employee / other Cost									
b.3	Sub total (b)									
c	<u>Pumping Station No.2 :-</u>									
	and so on									
d	Total (4) Special O&M Expenses									
5	Totsl O&M expenses	15.28	3.98	16.18	8.09	8.09	9.65	9.65	17.12	20.42

Form G 5.1

Details/Information to be Submitted in respect of Fuel for Computation of Energy Charges¹ for FPA

Name of the Company
Name of the Power Station

RVUNL
RGTPP, Ramgarh 110.5 MW

For GT#1 & GT#2

S.No	Year	Unit	july'2014	Aug'2014	Sep'2014	2nd Quarter
			Natural Gas	Natural Gas	Natural Gas	Natural Gas
1	2	3	4			
1	Quantity of GAS instock at the beginning of the Month	(SCM)	0			
2	Quantity of GAS supplied by GAIL	(SCM)	18558600	18835300	21278950	58672850
3	Adjustment (+/-) in quantity supplied made by GAIL for diversion of wagons etc.	(SCM)	0	0	0	0
4	GAS supplied by GAIL (2+3)	(SCM)	18558600	18835300	21278950	58672850
5	Normative Transit & Handling Losses (For coal/Lignit based Projects)	(SCM)	0	0	0	0
6	Net GAS Supplied (4-5)	(SCM)	18558600	18835300	21278950	58672850
7	Total GAS (Receipts & Opening Stock) (1)+(6)	(SCM)	18558600	18835300	21278950	58672850
8	GAS burnt/consumed	(SCM)	18558600	18835300	21278950	58672850
9	GAS in stock at the end of the Month	(SCM)	0	0	0	0
10	Value of GAS in stock	(Rs.)	0	0	0	0
11	Amount charged by the GAIL	(Rs.)	70691961.38	84871458	104750648.2	260314067.6
12	Adjustment (+/-) in amount charged made by GAIL	(Rs.)	0	0	0	0
13	Total amount Charged (11+12)	(Rs.)	70691961.38	84871458	104750648.2	260314067.6
14	Transportation charges by GAIL	(Rs.)	9504445.883	9504445.883	9504445.883	28513337.65
15	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)	0	0	0	0
16	Demurrage Charges, if any	(Rs.)	0	0	0	0
17	Cost of diesel in transporting coal through MGR system, if applicable	(Rs.)	0	0	0	0
18	Total Transportation Charges (14+/-15-16+17)	(Rs.)	9504445.883	9504445.883	9504445.883	28513337.65
19	Total amount Charged for GAS supplied including Transportation (13+18)	(Rs.)	80196407.26	94375903.88	114255094.1	288827405.3
20	Average cost of GAS (Opening stock + receipts) (19/7)	(Rs./ Th.SCM)	4321.25	5010.59	5369.40	4922.68
21	Cost of GAS in stock at the end of the Month (20)x(9)	(Rs.)	0	0	0	0
22	Weighted average GCV of GAS as fired	(kCal/SCM)	6830.623277	6907.653724	6905.959143	6882.19453
23	Weighted average Sulphur content	(%)				

Form G 5.1

Details/Information to be Submitted in respect of Fuel for Computation of Energy Charges¹ for FPA

Name of the Company
Name of the Power Station

RVUNL
RGTPP, Ramgarh 160 MW

For GT#3

S.No	Year	Unit	july'2014	Aug'2014	Sep'2014	2nd Quarter
			Natural Gas	Natural Gas	Natural Gas	Natural Gas
1	2	3	4			
1	Quantity of GAS instock at the beginning of the Month	(SCM)	0			
2	Quantity of GAS supplied by GAIL	(SCM)	19827639	19567083	20881749	60276471
3	Adjustment (+/-) in quantity supplied made by GAIL for diversion of wagons etc.	(SCM)	0	0	0	0
4	GAS supplied by GAIL (2+3)	(SCM)	19827639	19567083	20881749	60276471
5	Normative Transit & Handling Losses (For coal/Lignit based Projects)	(SCM)	0	0	0	0
6	Net GAS Supplied (4-5)	(SCM)	19827639	19567083	20881749	60276471
7	Total GAS (Receipts & Opening Stock) (1)+(6)	(SCM)	19827639	19567083	20881749	60276471
8	GAS burnt/consumed	(SCM)	19827639	19567083	20881749	60276471
9	GAS in stock at the end of the Month	(SCM)	0	0	0	0
10	Value of GAS in stock	(Rs.)	0	0	0	0
11	Amount charged by the GAIL	(Rs.)	203556645.1	243930250.5	229867891.2	677354786.8
12	Adjustment (+/-) in amount charged made by GAIL	(Rs.)	0	0	0	0
13	Total amount Charged (11+12)	(Rs.)	203556645.08	243930250.5	229867891.2	677354786.8
14	Transportation charges by GAIL	(Rs.)	14146702.65	14146702.65	14146702.65	42440107.96
15	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)	0	0	0	0
16	Demurrage Charges, if any	(Rs.)	0	0	0	0
17	Cost of diesel in transporting coal through MGR system, if applicable	(Rs.)	0	0	0	0
18	Total Transportation Charges (14+/-15-16+17)	(Rs.)	14146702.65	14146702.65	14146702.65	42440107.96
19	Total amount Charged for GAS supplied including Transportation (13+18)	(Rs.)	217703347.7	258076953.1	244014593.9	719794894.7
20	Average cost of GAS (Opening stock + receipts) (19/7)	(Rs/ Th.SCM)	10979.79	13189.34	11685.54	11941.56
21	Cost of GAS in stock at the end of the Month (20)x(9)	(Rs.)	0	0	0	0
22	Weighted average GCV of GAS as fired	(kCal/SCM)	8836.441986	9224.744809	9159.55719	9072.376349

Form G 5.1

Details/Information to be Submitted in respect of Fuel for Computation of Energy Charges¹ for FPA

Name of the Company
Name of the Power Station

RVUNL
RGTPP, Ramgarh 110.5 MW

For GT#1,GT#2

S.No	Year	Unit	july'2014	Aug'2014	Sep'2014	2nd Quarter
			HSD	HSD	HSD	HSD
1	2	3	4			
1	Quantity of HSD instock at the beginning of the Month	KL	219.038	197.264	195.029	219.038
2	Quantity of HSD supplied by Company	KL	0	0	0	0
3	Adjustment (+/-) in quantity supplied made by Company for diversion of wagons etc.	KL	0		0	0
4	HSD supplied by Company (2+3)	KL	0	0	0	0
5	Normative Transit & Handling Losses (For coal/Lignit based Projects)	KL	0	0	0	0
6	Net HSD Supplied (4-5)	KL	0	0	0	0
7	Total HSD (Receipts & Opening Stock) (1)+(6)	KL	219.038	197.264	195.029	529.716
8	HSD burnt/consumed for generation purpose	KL	21.774	0.345	0.937	23.056
9	HSD burnt/consumed for other than generation purpose*	KL	0.000	1.890	0	1.89
	HSD in stock at the end of the Month		197.264	195.029	194.092	219.038
10	Value of HSD in stock	(Rs.)	8315798.06	8221580.115	8182080.243	8182080.243
11	Amount charged by the Company	(Rs.)	9233695.836	8315798.06	8221580.115	10285311.43
12	Adjustment (+/-) in amount charged made by Company	(Rs.)	0	0	0	0
13	Total amount Charged (11+12)	(Rs.)	9233695.836	8315798.06	8221580.115	10285311.43
14	Transportation charges by Company	(Rs.)	-	-	-	-
15	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)	-	-	-	-
16	Demurrage Charges, if any	(Rs.)	-	-	-	-
17	Cost of diesel in transporting coal through MGR system, if applicable	(Rs.)	-	-	-	-
18	Total Transportation Charges (14+/-15-16+17)	(Rs.)	-	-	-	-
19	Total amount Charged for HSD supplied including Transportation (13+18)	(Rs.)	0	8315798.06	8221580.115	10285311.43
20	Average cost of HSD (Opening stock + receipts) (19/7)	(Rs./KL)	42155.68	42155.68	42155.68	42155.68
21	Cost of HSD in stock at the end of the Month (20)x(9)	(Rs.)	8315798.06	8221580.115	8182080.243	8182080.243
22	Weighted average GCV of HSD as fired	(kCal/KL)	9300	9300	9300	9300

Form G 5.3

Energy Charges for Thermal Generation

Name of the Petitioner:

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.

Name of the Power Station/Unit:

Ramgarh Gas & Thermal Power Plant

S.No.	Particulars	Units	FY 2013-14		Approved by the Commission	FY 2014-15			FY 2015-16		Remarks	
			April-March (Audited)			Apr-Sept (Actual)	Oct-March (Actual)	Apr-Sept (Actual)	Oct-March (Actual)	Anticipated		
			110.50 MW	110 MW		110.50 MW		160 MW		110.50 MW	160 MW	
1	2	3	4		5	6				9		10
1	Operational Parameters											
1.1	Total Capacity	MW	110.50	110.00	110.5	110.5	110.5	160	160	110.50	160.00	
1.2	Availability	%	82.80%	87.39%	70.00%	67.16%	70.00%	73.07%	70.00%	70.00%	70.00%	
1.3	PLF	%	52.34%	54.39%	70.00%	37.20%	64.34%	53.59%	66.15%	70.00%	70.00%	
1.4	Gross Generation	MU	506.64	166.66	677.59	180.55	310.52	237.24	462.34	679.44	983.81	
1.5	Auxiliary Energy Consumption	%	4.18%	0.63%	2.32%	4.76%	4.67%	4.32%	4.67%	5.00%	3.00%	
1.6	Auxiliary Energy Consumption	MU	21.18	1.05	15.72	8.60	14.50	10.25	21.59	33.97	29.51	
1.7	Net Generation	MU	485.46	165.61	661.87	171.96	296.02	226.98	440.74	645.47	954.29	
1.8	Heat Rate	kcal/kWh	2482.39	3449.89	2256.00	3840.29	3642.39	2906.25	2567.67	2256.00	1950.00	
2	Fuel Parameters (for each primary and secondary fuel)											
2.1	Gross Calorific Value											
2.1.1	Fuel - 1 (Natural Gas)	kcal/SCM	4798.35	7642.85	9300.00	6539.66	6539.66	8686.64	8686.64	6539.66	8686.638	
2.1.2	Fuel - 2 (HSD)	kcal/Ltr.	9300.00		6113.84	9300.00	9300.00			9300.00		
2.2	Landed Fuel Price per unit (Please specify the fuel)											
2.2.1	Fuel - 1 (Natural Gas)	Rs/Th. SCM	8183.42	10436.07		5692.27	8439.03	11716.63	11716.63	7617.34	12068.13	
2.2.2	Fuel - 2 (HSD)	Rs/KL	32371.56		32223.39	38660.21	42155.68			42155.68		
3	Fuel Consumption and Heat Contribution (for each fuel separately)											
3.1	Specific Fuel Consumption											
3.1.1	Fuel - 1 (Natural Gas)	SCM/ kWh	0.52	0.45		0.59	0.56	0.33	0.30	0.3443	0.22	
3.1.2	Fuel - 2 (HSD)	ML/ kWh	0.0683			0.35	0.12			0.50		
3.2	Total Fuel Consumption											
3.2.1	Fuel - 1 (Natural Gas)	th. SCM	262040.32	75228.04		105935.50	172899.10	78783.94	136500.00	233905.43	220847.88	
3.2.2	Fuel - 2 (HSD)	Kl	34.59	0.00		63.74	36.02	0.00	0.00	339.72		
3.3	Heat Content (each fuel separately)											
3.3.1	Fuel - 1 (2.1.1 x 3.1.1)	Million kcal	1257359.86	574956.31		692782.42	1130701.77	684367.54	1185726.10	1529662.65	1918425.60	
3.3.2	Fuel 2 (2.1.2 x 3.1.2)	Million kcal	321.67	0.00		592.74	334.99	0.00	0.00	3159.41		
	Total Heat Content		1257681.53	574956.31	0.00	693375.15	1131036.76	684367.54	1185726.10	1532822.05	1918425.60	0.00
4	Total Fuel Cost											
4.1.1	Fuel 1 (Natural Gas) (2.2.1 x 3.2.1)	Rs Crore	214.44	78.51		60.30	145.91	92.31	159.93	178.17	266.52	
4.1.2	Fuel 2 (HSD) (2.2.2 x 3.2.2)	Rs Crore	0.11	0.00		0.25	0.15	0.00	0.00	1.43		
	Total Fuel Cost	Rs Crore	214.55	78.51	166.77	60.55	146.06	92.31	159.93	179.61	266.52	
7	Total Cost (4+5+6)	Rs Crore	214.55	78.51	167.91	60.55	146.06	92.31	159.93	179.61	266.52	
8	Cost of Generation per unit (at Generation Terminal) (7/1.4)	Rs/kWh	4.235	4.711	2.460	3.353	4.704	3.891	3.459	2.643	2.709	
9	Energy Charge per unit (ex-bus) (7/1.7)											
9.1.1	Fuel - 1 (Natural Gas)	Rs/kWh	4.417	4.741		3.507	4.930	4.068	3.630	2.760	2.794	
9.1.2	Fuel - 2 (HSD)	Rs/kWh	0.002	0.000		0.014	0.005	0.000	0.000	0.022	0.000	

Fixed assets & provisions for depreciation

Name of the Petitioner
Name of the Power Station :Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.
Ramgarh Gas & Thermal Power Plant

(Figures in Rs Crore)

S. No.	Particular	Rate of depreciation %	Gross fixed assets			Provisions for depreciation				Net fixed assets at the beginning of the year	Net Fixed Asset at the end of the year	
			Year (n-1) (2013-14)	Year (n) (2014-15)	Year (n-1) (2013-14)	Year (n) (2014-15)	Year (n-1) (2013-14)	Year (n) (2014-15)				
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Land & land rights	Nil	0.14	0.00	0.00	0.14	0.04	0.00	0.00	0.04	0.11	0.10
1A	Building & Civil works of Power plant	3.34	31.00	0.00	0.00	31.00	14.54	1.24	0.00	15.33	16.47	15.67
2	Hydraulic works	5.28	16.43	0.00	0.00	16.43	7.38	0.79	0.00	7.38	9.05	9.05
3	Other Civil works	3.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	Plant & machinery	5.28	254.48	0.00	0.00	254.48	135.73	12.87	0.00	148.60	118.75	105.88
5	Lines and Cable Networks	5.28	0.04	0.00	0.00	0.04	0.03	0.00	0.00	0.03	0.02	0.01
6	Vehicles	6.33	0.67	0.00	0.00	0.67	0.63	0.00	0.00	0.63	0.04	0.04
7	Furniture & fixtures	6.33	0.24	0.00	0.00	0.24	0.14	0.02	0.00	0.16	0.10	0.08
8	Office Equipments	6.33	0.09	0.00	0.00	0.09	0.08	0.00	0.00	0.09	0.00	0.00
9	Capital spares	5.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total (1) to (11)		303.09	0.00	0.00	303.09	158.57	14.92	0.00	172.25	144.53	130.84

(Figures in Rs Crore)

S. No.	Particular	Rate of depreciation %	Gross fixed assets			Provisions for depreciation				Net fixed assets at the beginning of the year	Net Fixed Asset at the end of the year	
			Year (n-1) (2013-14)	Year (n) (2014-15)	Year (n-1) (2013-14)	Year (n) (2014-15)	Year (n-1) (2013-14)	Year (n) (2014-15)				
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Land & land rights	Nil	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1A	Building & Civil works of Power plant	3.34	0.00	39.424	0.00	39.42	0.00	0.42	0.00	0.42	0.00	39.01
2	Hydraulic works	5.28	0.00	21.282	0.00	21.28	0.00	0.36	0.00	0.36	0.00	20.92
3	Other Civil works	3.34	0.00	0.074	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.07
4	Plant & machinery	5.28	0.00	498.523	0.00	498.52	0.00	8.37	0.00	8.37	0.00	490.16
5	Lines and Cable Networks	5.28	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	Vehicles	6.33	0.00	0.038	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.04
7	Furniture & fixtures	6.33	0.00	0.029	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.03
8	Office Equipments	6.33	0.00	0.021	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.02
9	Capital spares	5.28	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total (1) to (11)		0.00	559.39	0.00	559.39	0.00	9.14	0.00	9.14	0.00	550.25

(Figures in Rs Crore)

S. No.	Particular	Rate of depreciation %	Gross fixed assets			Provisions for depreciation				Net fixed assets at the beginning of the year	Net Fixed Asset at the end of the year	
			Year (n-1) (2013-14)	Year (n) (2014-15)	Year (n-1) (2013-14)	Year (n) (2014-15)	Year (n-1) (2013-14)	Year (n) (2014-15)				
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Land & land rights	Nil	0.14	0.00	0.00	0.14	0.040	0.005	0.00	0.045	0.10	0.10
1A	Building & Civil works of Power plant	3.34	31.00	0.00	0.00	31.00	15.330	1.239	0.00	16.568	15.67	14.43
2	Hydraulic works	5.28	16.43	0.00	0.00	16.43	7.381	0.793	0.00	8.173	9.05	8.26
3	Other Civil works	3.34	0.00	0.00	0.00	0.00	0.000	0.000	0.00	0.000	0.00	0.00
4	Plant & machinery	5.28	254.48	0.00	0.00	254.48	148.596	12.869	0.00	161.465	105.88	93.01
5	Lines and Cable Networks	5.28	0.04	0.00	0.00	0.04	0.032	0.002	0.00	0.034	0.01	0.01
6	Vehicles	6.33	0.67	0.00	0.00	0.67	0.634	0.000	0.00	0.634	0.04	0.04
7	Furniture & fixtures	6.33	0.24	0.00	0.00	0.24	0.157	0.015	0.00	0.172	0.08	0.07
8	Office Equipments	6.33	0.09	0.00	0.00	0.09	0.086	0.002	0.00	0.088	0.00	0.00
9	Capital spares	5.28	0.00	0.00	0.00	0.00	0.000	0.000	0.00	0.000	0.00	0.00
	Total (1) to (11)		303.09	0.00	0.00	303.09	172.25	14.92	0.00	187.18	130.84	115.92

(Figures in Rs Crore)

S. No.	Particular	Rate of depreciation %	Gross fixed assets			Provisions for depreciation				Net fixed assets at the beginning of the year	Net Fixed Asset at the end of the year	
			Year (n-1) (2013-14)	Year (n) (2014-15)	Year (n-1) (2013-14)	Year (n) (2014-15)	Year (n-1) (2013-14)	Year (n) (2014-15)				
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Land & land rights	Nil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1A	Building & Civil works of Power plant	3.34	39.42	17.43	0.00	56.86	0.42	1.79	0.00	2.21	39.01	54.65
2	Hydraulic works	5.28	21.28	9.41	0.00	30.69	0.36	1.53	0.00	1.89	20.92	28.81
3	Other Civil works	3.34	0.07	0.03	0.00	0.11	0.00	0.00	0.00	0.00	0.07	0.10
4	Plant & machinery	5.28	498.52	220.44	0.00	718.97	8.37	35.79	0.00	44.16	490.16	674.81
5	Lines and Cable Networks	5.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	Vehicles	6.33	0.04	0.02	0.00	0.06	0.00	0.00	0.00	0.00	0.04	0.05
7	Furniture & fixtures	6.33	0.03	0.01	0.00	0.04	0.00	0.00	0.00	0.00	0.03	0.04
8	Office Equipments	6.33	0.02	0.01	0.00	0.03	0.00	0.00	0.00	0.00	0.02	0.03
9	Capital spares	5.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total (1) to (11)		559.39	247.36	0.00	806.75	9.14	39.12	0.00	48.27	550.25	758.49

(Figures in Rs Crore)

Year (n+1) (2015-16)

For 110.5

S. No.	Particular	Rate of depreciation %	Gross fixed assets				Provisions for depreciation				Net fixed assets at the beginning of the year	Net Fixed Asset at the end of the year
			At the beginning of the year	Additions during the year	Adjustment & deductions	At the end of the year	Cumulative upto the beginning of the year	Additions during the year	Adjustment during the year	Cumulative at the end of the year		
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Land & land rights	Nil	0.14	0.00	0.00	0.142	0.000	0.00	0.00	0.005	0.14	0.14
1A	Building & Civil works of Power plant	3.34	31.00	0.00	0.00	31.003	16.568	1.24	0.00	17.807	14.43	13.20
2	Hydraulic works	5.28	16.43	0.00	0.00	16.432	8.173	0.79	0.00	8.966	8.26	7.47
3	Other Civil works	3.34	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.000	0.00	0.00
4	Plant & machinery	5.28	254.48	0.00	0.00	254.476	161.465	12.87	0.00	174.334	93.01	80.14
5	Lines and Cable Networks	5.28	0.04	0.00	0.00	0.045	0.034	0.00	0.00	0.037	0.01	0.01
6	Vehicles	6.33	0.67	0.00	0.00	0.671	0.634	0.00	0.00	0.634	0.04	0.04
7	Furniture & fixtures	6.33	0.24	0.00	0.00	0.238	0.172	0.02	0.00	0.187	0.07	0.05
8	Office Equipments	6.33	0.09	0.00	0.00	0.087	0.088	0.00	0.00	0.090	0.00	0.00
9	Capital spares	5.28	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.000	0.00	0.00
	Total (1) to (11)		303.09	0.00	0.00	303.09	187.13	14.92	0.00	202.06	115.96	101.04

(Figures in Rs Crore)

Year (n+1) (2015-16)

For 160

S. No.	Particular	Rate of depreciation %	Gross fixed assets				Provisions for depreciation				Net fixed assets at the beginning of the year	Net Fixed Asset at the end of the year
			At the beginning of the year	Additions during the year	Adjustment & deductions	At the end of the year	Cumulative upto the beginning of the year	Additions during the year	Adjustment during the year	Cumulative at the end of the year		
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Land & land rights	Nil	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1A	Building & Civil works of Power plant	3.34	56.86	8.09	0.00	64.95	2.21	2.03	0.00	4.24	54.65	60.71
2	Hydraulic works	5.28	30.69	4.37	0.00	35.06	1.89	1.74	0.00	3.62	28.81	31.44
3	Other Civil works	3.34	0.11	0.02	0.00	0.12	0.00	0.00	0.00	0.01	0.10	0.11
4	Plant & machinery	5.28	718.97	102.36	0.00	821.33	44.16	40.66	0.00	84.82	674.81	736.51
5	Lines and Cable Networks	5.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	Vehicles	6.33	0.06	0.01	0.00	0.06	0.00	0.00	0.00	0.01	0.05	0.06
7	Furniture & fixtures	6.33	0.04	0.01	0.00	0.05	0.00	0.00	0.00	0.01	0.04	0.04
8	Office Equipments	6.33	0.03	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.03	0.03
9	Capital spares	5.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total (1) to (11)		806.75	114.86	0.00	921.61	48.27	44.45	0.00	92.71	758.49	828.90

Form G 6.2

LOAN REPAYMENT & INTREST LIABILITY

Name of the Petitioner
Name of the Power Station :Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.
Ramgarh Gas & Thermal Power PlantName of the Petitioner
Name of the Power Station :

S. No.	Source (loan)	Currency	Opening Balance	Anticipated Receipts	Anticipated Repayment	Interest rate		Closing Balance	Average Rate of Interest#	Liability of Interest during the year	Financial charges	Total interest & finance charges	Less: Interest charges capitalised	Net interest & finance charges
						Fixed	Floating							
						6	7							
Year (2013-14) Rs. Crore (for 110.50 MW)														
1	2	2A	3	4	5	6	7	8	9	10	11	12	13	14
1	Term Loan + Transitional Loan	Indian	2.88	0.00	2.88	12.48%		0.00	12.48%	0.18	0.05	0.23	0.00	0.23
2	Finance charges													
Total (for Station)			2.88	0.00	2.88			0.00		0.18	0.05	0.23	0.00	0.23

S. No.	Source (loan)	Currency	Opening Balance	Anticipated Receipts	Anticipated Repayment	Interest rate		Closing Balance	Average Rate of Interest#	Liability of Interest during the year	Financial charges	Total interest & finance charges	Less: Interest charges capitalised	Net interest & finance charges
						Fixed	Floating							
						6	7							
Year (2013-14) Rs. Crore (for 110 MW)														
1	2	2A	3	4	5	6	7	8	9	10	11	12	13	14
1	Term Loan + Transitional Loan	Indian	549.88	115.74	9.14	12.48%		656.48	12.48%	75.29	0.05	75.34	57.68	17.65
2	Finance charges													
Total (for Station)			549.88	115.74	9.14			656.48		75.29	0.05	75.34	57.68	17.65

S. No.	Source (loan)	Currency	Opening Balance	Anticipated Receipts	Anticipated Repayment	Interest rate		Closing Balance	Average Rate of Interest#	Liability of Interest during the year	Financial charges	Total interest & finance charges	Less: Interest charges capitalised	Net interest & finance charges
						Fixed	Floating							
						6	7							
Year (2014-15) Rs. Crore For 110.50 MW														
1	2	2A	3	4	5	6	7	8	9	10	11	12	13	14
1	Term Loan + Transitional Loan	Indian	0.00	0.00	0.00	12.48%		0.00	12.48%	0.00	0.00	0.00	0.00	0.00
Total (for Station)			0.00	0.00	0.00			0.00		0.00	0.00	0.00	0.00	0.00

S. No.	Source (loan)	Currency	Opening Balance	Anticipated Receipts	Anticipated Repayment	Interest rate		Closing Balance	Average Rate of Interest#	Liability of Interest during the year	Financial charges	Total interest & finance charges	Less: Interest charges capitalised	Net interest & finance charges
						Fixed	Floating							
						6	7							
Year (2014-15) Rs. Crore For 160 MW														
1	2	2A	3	4	5	6	7	8	9	10	11	12	13	14
1	Term Loan + Transitional Loan	Indian	656.48	197.88	39.12	12.48%		815.23	12.48%	91.85	0.00	91.85	18.39	73.46
Total (for Station)			656.48	197.88	39.12			815.23		91.85	0.00	91.85	18.39	73.46

S. No.	Source (loan)	Currency	Opening Balance	Anticipated Receipts	Anticipated Repayment	Interest rate		Closing Balance	Average Rate of Interest#	Liability of Interest during the year	Financial charges	Total interest & finance charges	Less: Interest charges capitalised	Net interest & finance charges
						Fixed	Floating							
						6	7							
Year (2015-16) Rs. Crore														
1	2	2A	3	4	5	6	7	8	9	10	11	12	13	14
1	Term Loan + Transitional Loan	Indian	0.00	0.00	0.00	12.48%		0.00	12.48%	0.00	0.00	0.00	0.00	0.00
Total (for Station)			0.00	0.00	0.00			0.00		0.00	0.00	0.00	0.00	0.00

S. No.	Source (loan)	Currency	Opening Balance	Anticipated Receipts	Anticipated Repayment	Interest rate		Closing Balance	Average Rate of Interest#	Liability of Interest during the year	Financial charges	Total interest & finance charges	Less: Interest charges capitalised	Net interest & finance charges
						Fixed	Floating							
						6	7							
Year (2015-16) Rs. Crore For 160 MW														
1	2	2A	3	4	5	6	7	8	9	10	11	12	13	14
1	Term Loan + Transitional Loan	Indian	815.23	91.88	44.45	12.48%		862.67	12.48%	104.72	0.00	104.72	24.71	80.01
Total (for Station)			815.23	91.88	44.45			862.67		104.72	0.00	104.72	24.71	80.01

Details of Project Specific Loans

Name of the Petitioner
Name of the Power Station
Commercial Operation Date

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.
Ramgarh Gas & Thermal Power Plant

Particulars	Year (n-1)*						Rs. Crore
	Package1	Package2	Package3	Package4	Package5	Package6	
1	2	3	4	5	6	7	
Source of Loan ¹							
Currency ²							
Amount of Loan sanctioned							
Amount of Gross Loan drawn upto previous year/during current/ensuing year/COD <small>3,4,5,13,15</small>							
Interest Type ⁶							
Fixed Interest Rate, if applicable							
Base Rate, if Floating Interest ⁷							
Margin, if Floating Interest ⁸	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
Are there any Caps/Floor ⁹							
If above is yes,specify caps/floor							
Moratorium Period ¹⁰							
Moratorium effective from							
Repayment Period ¹¹							
Repayment effective from							
Repayment Frequency ¹²							
Repayment Instalment ^{13,14}							
Base Exchange Rate ¹⁶							

Form G 6.5

Abstract of Capital Cost Estimates and Schedule of Commissioning for the New projects

Name of the Petitioner : **Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.**
 Name of the Power Station : **Ramgarh Gas & Thermal Power Plant**
 New Projects
 Capital Cost Estimates

Board of Director/ Agency approving the Capital cost estimates:							
Date of approval of the Capital cost estimates:							
	Present Day Cost			Completed Cost			
Price level of approved estimates	As of End of _____ Qtr. Of the year _____			As on Scheduled COD of the Station			
Foreign Exchange rate considered for the Capital cost estimates							
<u>Capital Cost excluding IDC & FC</u>							
Foreign Component, if any (In Million US \$ or the relevant Currency)							
Domestic Component (Rs. Cr.)							
Capital cost excluding IDC & FC (Rs. Cr)							
<u>IDC & FC</u>							
Foreign Component, if any (In Million US \$ or the relevant Currency)							
Domestic Component (Rs. Cr.)							
Total IDC & FC (Rs.Cr.)							
Rate of taxes & duties considered							
Capital cost Including IDC & FC							
Foreign Component, if any (In Million US \$ or the relevant Currency)							
Domestic Component (Rs. Cr.)							
Capital cost Including IDC & FC (Rs. Cr)							
<u>Schedule of Commissioning</u>							
COD of Unit-I/Block-I							
COD of Unit-II/Block-II							

COD of last Unit/Block							

Form G 6.6
Break-up of Capital Cost for Coal / Lignite / gas / liquid fuel based projects

Name of the Petitioner:
Name of the Power Station :

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.
Ramgarh Gas & Thermal Power Plant

S.No.	Break Down	Cost in Rs. Crores			Variation (Rs. Cr.)	Reasons for Variation	Admitted Cost (Rs. Cr.)
		As per original Estimates	Actual Expenditure as on COD	Liabilities/Provisions			
1	2	3	4	5	6	7	8
1.0	Land & Site Development						
2.0	Access road						
3.0	Temporary construction and enabling works						
4	Water storage system						
5.0	Water transportation system						
6.0	Railway system						
7.0	Steam generator / Boiler Island						
8.0	Steam Turbine Generator island including taxes, duties etc.						
9.0	Balance of Plant						
10.0	Control and Instrumentation						
11.0	Operator Training						
12.0	Start up fuel						
13.0	Construction insurance						
14.0	Special T&P						
15.0	Total Cost of Works (sum of items 1 to 15 above)						
16.0	Overheads						
17.0	Capital cost excluding IDC & FC						
18	Interest During Construction (IDC)						
19	Financing Charges (FC)						
20.0	Capital cost including IDC & FC						
21	Cost per MW						

Form G 6.11

Interest on Working Capital

Name of the Petitioner
Name of the Power Station

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.
Ramgarh Gas & Thermal Power Plant

Rs. Crore

S. No.	Particulars		FY 2013-14		Approved by the Commission	FY 2014-15				FY 2015-16		Remarks
			(Actuals / audited)			Apr-Sep (Actual)	Oct - Dec (Actual)	Apr-Sep (Actual)	Oct - Dec (Actual)	(Anticipated)		
			110.50 MW	110 MW						110.50 MW	160 MW	
1	2	3	4	5	6	7	8	9	10	11	12	8
1	Coal Cost (Non pit head)	1½ Month	NA	NA	NA	NA	NA	NA	NA	NA	NA	
2	Coal Cost (Pit head)	Half month	NA	NA	NA	NA	NA	NA	NA	NA	NA	
3	Cost of Gas	Half month	8.93	3.27	0.00	2.51	6.08	3.85	6.66	7.42	11.11	
4	Sec.Fuel Oil	Two month	0.02	0.00	0.00	0.04	0.03	0.00	0.00	0.24	0.00	
5	Liquid Fuel Stock	Half month	NA	NA	NA	NA	NA	NA	NA	NA	NA	
6	O & M expenses	One month	1.27	0.33		0.67	0.67	0.80	0.80	1.70	0.00	
	Maintenance Spares	20% of O&M	3.06	0.80		1.62	1.62	1.93	1.93	4.08	0.00	
	Recievables	1½ Month	31.35	13.97	0.00	11.24	22.15	22.15	30.77	30.10	56.88	
	Total Working Capital		44.63	18.37		16.09	30.55	28.73	40.17	43.55	67.98	
	Rate of Interest (as per norms)		12.48%	12.48%		12.21%	12.21%	12.21%	12.21%	12.50%	12.50%	
	Interest on Working Capital		5.57	2.29	4.51	1.96	3.73	3.51	4.90	5.44	8.50	

Insurance Expenses

Form G 6.12

Name of the Petitioner: Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.
 Name of the Power Station : Ramgarh Gas & Thermal Power Plant

Rs. Crore

S. No.	Particulars	Previous Year		Current Year (n)				Ensuing Year		Remarks	
		2013-14		2014-15				2015-16			
		(Actuals/audited)		Approved by the Commission	Apr-Sep (Actual)	Oct - Dec (Actual)	Apr-Sep (Actual)	Oct - Dec (Actual)	(Anticipated)		
1	2	110.50 MW	110 MW	5	6	7=6+5	160 MW	110.50 MW	160 MW	10	
	Insurance Expenses	0.28	0.55	0.00	0.12	0.12	0.65	0.65	0.22	1.59	
a)	Provision made/ proposed for the year										
b)	Actual insurance expenses incurred										
c)	Average Net Fixed Assets	137.68	275.12		123.38	123.38	654.37	654.37	108.50	793.69	

Tax on R.O.E.

Name of the Petitioner:

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.

Name of the Power Station :

Ramgarh Gas & Thermal Power Plant

Rs.

S. No.	Particulars	Previous Year (n-1)	Current Year (n)	Ensuing Year(n+1)		Ensuring Year (n+2)		Remarks
		(Actuals/audited)	Actual/ Estimated	Proposed to be recovered		Proposed to be recovered		
				110.50 MW	160 MW	110.50 MW	160 MW	
1	2	3	4	5		6		7
A)	Advance Tax assessed & deposited on-----							
a)	for Quarter I & deposited on 15 th June.							
b)	for Quarter II & deposited on 15 th Sept.							
c)	for Quarter III & deposited on 15 th Dec.							
d)	for Quarter IV & deposited on 15 th March.							
	Total---(A)			4.94	6.26	4.94	7.10	
B)	Deffered tax liability before 01.04.2009							

Form G 7.1

Proposed improvement in performance

Name of the Petitioner
Name of the Power Station :

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.
Ramgarh Gas & Thermal Power Plant

Rs. Crore

S.No.	Particulars	Previous year		Current year				MYT Control Period					Remarks			
		FY 2013-14		FY 2014-15				FY 2015-16		n+3				n+4		n+5
		(Actuals / audited)		Apr-Sept (Actual)	Oct- March (Actual)		Total (April - March)		(Anticipated)							
		110.50 MW	110 MW	110.50 MW		160 MW		110.50 MW	160 MW							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	Plant load factor	52.34%	54.39%	37.20%	64.34%	53.59%	66.15%		70.00%	70.00%						
2	Auxiliary consumption	4.18%	0.63%	4.76%	4.67%	4.32%	4.67%		5.00%	3.00%						
3	Specific fuel consumption															
(i)	coal, kg / kWh															
ii)	gas, SCM / kWh	0.517211317	0.45138767	0.59	0.56	0.33	0.30		0.344	0.224						
(iii)	oil, ml / kwh	0.0683	0.0000	0.35	0.12	0.00	0.00		0.500	0.000						
(iv)	Limestone kg / kWh															
(v)	any other fuel															
4	Station heat rate, kcal / kwh	2482.39	3449.89	3840.29	3642.39	2906.25	2567.67		2256.00	1950.00						
5	Annual Maitenance shut down days															
6	Forced / planned shut down except annual shut down															
(i)	number / year															
(ii)	cumulative duration, hours / year															
7	Fly ash utilisation, %	100%	100%	100%	100%	100%	100%		100%	100%						
8	Other bye product utilisation(give list)															
9	Outstanding dues, days of receivables															
10	Availability	82.80%	87.39%	67.16%	70.00%	73.07%	70.00%		70.00%	70.00%						