

**Petition for Tariff
&
Aggregate Revenue Requirement (ARR)
for FY 2015-16 For
Giral Unit 2**

Submitted to
Rajasthan Electricity Regulatory Commission
Jaipur

by
Rajasthan Rajya Vidyut Utpadan Nigam Limited

Novemeber-2014

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Definitions

Act	The Electricity Act, 2003
Application	This Petition for ARR and Tariff for FY2015-16 for for Giral Unit 2 of RVUN
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 2009 and 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 (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
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
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 23.06.04, 30.04.05, 28.09.06, 07.06.2007, 18.05.10 and further supplementary PPA was signed on dt 15.12.10 which includes GLTPP Unit 2 (125MW).
- 1.3 The GLTPP Unit 2 was declared on commercial operation w.e.f 12.3.2011. The tariff petition for 125 MW Giral Lignite Thermal Power Station Unit 2 has been prepared and is submitted to the Hon'ble Commission for approval of tariff petition for 2015-16. The figures for FY 2013-14, 2014-15 and FY 2015-16 are un-audited and estimated.

A2: CAPITAL COST OF GIRAL UNIT 2

- 2.1 As per Audited account of FY 2010-11, the Gross Fixed Assets (GFA) as on 12.03.2011 (COD) are Rs. 744.68 crore. Since, Depreciation does not have any impact on GFA, the GFA as on 31.03.2011 would remain same as Rs 744.68 crore, which is also reflected in audited accounts of FY 2010-11.
- 2.2 RVUN would like to state that the Giral unit 2 has achieved COD on 12.03.2011, as per general accounting practice, the expenditure incurred till COD of a unit are booked under capital expenditure head. However, while maintaining the books of accounts of Giral Unit 2, instead of booking of expenditure incurred from 1.04.2009 to 12.03.2011 to capital expenditure head, RVUN has charged the expenditure incurred from 1.04.2009 to 12.03.2011 (COD) to profit and losses account.
- 2.3 With regard to above facts of Giral unit 2, RVUN request the Hon'ble Commission to consider the expenditure charged to profit and loss account from 1.04.2009 to 12.03.2011 of Giral unit 2 to be added to the Gross Fixed Assets (GFA) of Giral unit 2. Non addition of above cost to GFA would result into complete loss to RVUN, since the RVUN is not entitle to file any ARR or True up petition for period from 1.04.2009 to 11.03.2011 in respect of Giral unit 2 i.e. before COD date.

- 2.4 The above information of GFA as on 12.03.2011 and expenditure charged to profit and loss account from 1.04.2009 to 11.03.2011, which are also reflected in audited books of accounts of respective years are given in below table. Further with regard to directive given by Hon'ble Commission at para 149 of ARR & Tariff order dated 24.02.2014 of FY 2010-11 (20 days), the information of actual capital expenditure upto COD i.e. 12.03.2011 is given in table below.
- 2.5 Further, considering the Hon'ble Commission order dated 24.02.2014, the Hon'ble Commission has approved the common expenditure among Unit 1 & 2. Due to allocation of common expenditure to Unit 1 & 2, the capital cost of Unit 2 has been increase by Rs. 30.14 crore and the capital cost of Unit 1 has been reduced by same amount. The above cost of Rs. 30.14 crore shall not be reflected in FY 2010-11 accounts, as the order of the Hon'ble Commission has been passed on dated 24.02.2014.

Table 1: Capital Cost of Giral unit 2

Particular	Rs in Crore
Capital cost as on COD date i.e. 12.03.2011	744.68
Add: Expenditure charged to Profit and Loss Account from 1.04.2010 to 11.03.2011	71.41
Add: Expenditure charged to Profit and Loss Account from 1.04.2009 to 31.03.2010	69.32
Total Capital cost for Giral Unit 2 upto 12.03.2011	885.42
Add: Capital cost due common cost allocation	30.14
Final Capital Cost of Giral Unit 2	915.56

A3: GENERATION FORECAST

- 3.1 The installed capacity of Giral Unit 2 is 125 MW. The estimated figures of Gross generation, PLF & net energy sale to three Discoms from Giral station of RVUN for the period FY 2013-14, FY 2014-15 and FY 2015-16 are as shown in below:

Table 2: Gross generation, PLF & Ex-bus energy sale from Giral Station

Particular	FY 13-14	FY 14-15	FY 15-16
	Unit 2	Unit 2	Unit 2
Capacity (MW)	125.00	125.00	125.00
PLF (%)	18.53%	15.38%	80.00%
Gross generation (MU)	202.94	168.86	878.40
Aux Cons. (%)	20.53%	29.00%	11.50%
Net Generation (MU)	161.27	119.89	777.38

- 3.2 The fixed cost elements as detailed hereunder for Giral Unit 2 for the FY 2013-14, FY 2014-15 and FY 2015-16 are as below.

FIXED CHARGES

A4: GIRAL UNIT 2 ANNUAL CAPACITY (FIXED) CHARGES FOR 2014-15

Depreciation:-

- 4.1 While calculating the Fixed Asset and Provision for Depreciation (Form 6.1) the capital cost mentioned in the above para have been considered and accordingly calculation of Fixed Asset and Provision for Depreciation for Unit 2 has been shown in Form 6.1.
- 4.2 Depreciation of Giral Unit 2 for FY 2013-14 has been calculated as directed by the clause No. 23 of RERC Tariff Regulations 2009 and for 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 3: Depreciation (Rs. in Crore)

Station	FY 13-14	FY 14-15	FY 15-16
Giral	Unit 2	Unit 2	Unit 2
Depreciation	48.29	48.29	48.29

Interest on Loans:-

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

Table 4: Interest on Loans (Rs. In Crore)

Station	FY 13-14	FY 14-15	FY 15-16
	Unit 2	Unit 2	Unit 2
Interest (Term Loan + Other Loan) and finance charges	75.98	69.95	63.92
Total	75.98	69.95	63.92

Interest on working Capital

- 4.5 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 2015-16 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.

Table 5: Interest on working Capital (Rs. in Crore)

Station	FY 13-14	FY 14-15	FY 15-16
Giral	Unit 2	Unit 2	Unit 2
Interest on Working Capital	4.34	4.68	7.18

Operation & Maintenance Expenses

- 4.6 The Operation & Maintenance Expenses have been computed as per the norms prescribed under Regulation 48 & 47 of RERC Tariff Regulation 2009 & 2014 respectively.
- 4.7 Estimated figures for the period FY 2013-14, FY 2014-15 and FY 2015-16 are summarised in Table below.

Table 6: O & M Expenses (Rs. in Crore)

Station	FY 13-14	FY 14-15	FY 15-16
Giral	Unit 2	Unit 2	Unit 2
O & M Expenses	27.58	29.30	31.13

Recovery of ARR & Tariff Petition Fees

- 4.8 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.
- 4.9 The ARR & Tariff Petition Fees for FY 2013-14, FY 2014-15 and FY 2015-16 are summarised in Table below.

Table 7: Recovery of ARR & Tariff Petition Fees (Rs. in Crore)

Station	FY 13-14	FY 14-15	FY 15-16
Giral	Unit 2	Unit 2	Unit 2
Petition Fees	0.13	0.06	0.06

Insurance Charges

- 4.10 RVUN is claiming the insurance charges for Giral for the year 2014-15 based on the estimates of actual insurance charges paid in preceding year with an increment of 5% YoY (year on year). The details are shown in the table below

Table 8: Insurance Charges (Rs. in Crore)

Station	FY 13-14	FY 14-15	FY 15-16
Giral	Unit 2	Unit 2	Unit 2
Insurance Charges	1.58	1.66	1.75

Return on Equity and Tax

- 4.1 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.

- 4.2 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.
- 4.3 The Return on Equity (ROE) for FY 2013-14, FY 2014-15 and FY 2015-16 are summarised in Table below:

Table 9: Return on Equity and Tax

Station	FY 13-14	FY 14-15	FY 15-16
Giral	Unit 2	Unit 2	Unit 2
Return on Equity	0.00	28.68	28.68
Tax on ROE	0.00	7.60	7.60

Non-Tariff Income

- 4.4 The following are the main head of accounts of Non tariff income:
- Sale of Scrap
 - Interest on FD/ Staff Loans
 - Miscellaneous receipts (rebates etc)

- 4.5 Estimated figures of Non Tariff Income for FY 2013-14, FY 2014-15 and FY 2015-16 are summarised in Table below.

Table 10: Non-Tariff Income (Rs. in Crore)

Station	FY 13-14	FY 14-15	FY 15-16
Giral	Unit 2	Unit 2	Unit 2
Non-Tariff Income	0.08	0.08	0.09

- 4.6 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: GIRAL ESTIMATED CAPACITY CHARGES (FIXED)

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

Table 11: Net Capacity Charges for Giral (Rs. in Crore)

Station	FY 13-14	FY 14-15	FY 15-16
Giral	Unit 2	Unit 2	Unit 2
Fixed Charges			
Depreciation	48.29	48.29	48.29
Interest on term Loan & Finance charges	75.98	69.95	63.92
Return on Equity	0.00	28.68	28.68
Tax on ROE	0.00	7.60	7.60
Interest on Working Capital	4.34	4.68	7.18
O & M Expenses	27.58	29.30	31.13
Insurance Charges	1.58	1.66	1.75
ARR and Tariff Petition Fee	0.13	0.06	0.06
Total Fixed Charges	157.90	190.23	188.61
Less: Non Tariff Income	0.08	0.08	0.09
Net Fixed Charges	157.82	190.14	188.53

A6: VARIABLE CHARGES

- 6.1 The Tariff Regulations, 2014 allows SHR is equivalent to 1.045 X Design Heat Rate (kcal/kWh) and moisture content is for Units 2 accordingly the SHR works out to be 2777.37 kcal/kWh for FY 15-16. Auxiliary consumption is considered as 11.50 % for Giral units 2. These figures have considered in the calculations.
- 6.2 For FY 2015-16, GCV of lignite has been considered as 2974 kcal/unit and the price of lignite has been taken as Rs. 975 per MT. The GCV of secondary fuel (OIL) been considered as 10600 kcal/unit for LDO and Price of the LDO has been taken as Rs. 63978/KL.
- 6.3 The overall estimated figures of variable Cost for the period under consideration, are summarised in Table below.

Table 12: Variable Cost (Rs. in Crores)

Particulars	Units	FY 2013-14	FY 2014-15	FY 2015-16
		April-March	April-March	April-March
Operational Parameters				
Total Capacity	MW	125	125	125
Availability	%	37.45%	31.43%	80.00%
PLF	%	18.53%	15.38%	80.00%
Gross Generation	MU	202.94	168.86	878.40
Auxiliary Energy Consumption	%	20.53%	29.00%	11.50%
Auxiliary Energy Consumption	MU	41.66	48.96	101.02
Net Generation	MU	161.27	119.89	777.38
Heat Rate	kcal/kWh	3538.00	3901.00	2777.37
Gross Calorific Value				
Fuel 1 (Lignite COAL)	kcal/unit	3029.00	2974.00	2974.00
Fuel 2 (LDO)	kcal/unit	10600.00	10600.00	10600.00
Landed Fuel Price per unit				
Fuel 1 (Lignite COAL)	Rs./MT	914.49	975.43	975.43
Fuel 2 (LDO)	Rs./KL	65369.72	63977.75	63977.75
Fuel 3 (LIME)	Rs./MT	611.00	611.00	611.00
Specific Fuel Consumption				
Fuel 1 (Lignite COAL)	kg/kWh	1.38	1.31	0.93
Fuel 2 (LDO)	ml/kWh	2.06	2.48	1.00
Fuel 3 (LIME)	kg/kWh	0.01	0.02	0.26
Total Fuel Consumption				
Fuel 1 (Lignite COAL)	MT	280475.00	221548.00	817193.41
Fuel 2 (LDO)	KL	418.05	450.00	878.40
Fuel 3 (LIME)	MT	2142.00	2834.00	228384.00
Total Fuel Cost				
Fuel 1 (Lignite COAL)	Rs Crore	25.65	21.61	79.71
Fuel 2 (LDO)	Rs Crore	2.73	2.88	5.62
Fuel 3 (LIME)	Rs Crore	0.13	0.17	13.95
Total Fuel Cost	Rs Crore	28.51	24.66	99.29
Energy Charge per unit (ex-bus)	per unit	1.768	2.057	1.277

A7: ESTIMATED ARR FOR GIRAL

7.1 The recovery of ARR proposed for Giral is summarised in table below

Table 13: ARR for Giral (Rs. in Crores)

Station	FY 13-14	FY 14-15	FY 15-16
	Unit 2	Unit 2	Unit 2
Capacity (Fixed Charges)	157.82	190.14	188.53
Variable Cost	28.51	24.66	99.29
Aggregate Revenue Requirement	186.33	214.81	287.81

A8: GIRAL ESTIMATED TARIFF

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

Table 14: Giral Estimated Tariff

Station	FY 13-14	FY 14-15	FY 15-16
	Unit 2	Unit 2	Unit 2
Ex-Bus Generation (MU)	161.27	119.89	777.38
Capacity(fixed) Charges	157.82	190.14	188.53
Variable Cost	28.51	24.66	99.29
Rate of Fixed Charge(Rs/kWh)	9.786	15.860	2.425
Rate of Variable Charge(Rs/kWh)	1.768	2.057	1.277
Rate of Sale of Energy (Rs/kWh)	11.554	17.917	3.702

A9: FUEL COST ADJUSTMENT

9.1 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.

A10: RESPONDENTS:-

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

A11: 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

RVUN

Name of the Power Station/Unit :

Giral unit 2

S.No.	Particulars	Ref.of Form No	FY 2013-14	2014-15		2015-16	Remark	
			Actual/Audited	Approved by the Commission	Apr-Sep (Actual)	Oct to March Estimated		Anticipated
1	2	3	4	5	6	7	9	10
1	Capacity (Fixed) Charge							
1.1	Depreciation	6.1	48.29		24.15	24.15	48.29	
1.2	Interest on term Loan & Finance charges	6.2	75.98		34.97	34.97	63.92	
1.3	Return on Equity	6.9			14.34	14.34	28.68	
1.4	Interest on Working Capital	6.11	4.34		2.34	2.34	7.18	
1.5	O & M Expenses	4.1	27.58		14.65	14.65	31.13	
1.6	Insurance Charges	6.12	1.58		0.83	0.83	1.75	
1.7	Tax on ROE	6.13			3.80	3.80	7.60	
1.8	ARR and Tariff Petition Fee		0.13		0.03	0.03	0.06	
1.11	Less: Non-Tariff income	3.2	0.08		0.04	0.04	0.09	
	Total (1)- Capacity (Fixed Charges)		157.82		95.07	95.07	188.53	
2	Total- Energy (variable) charges		28.51		12.33	12.33	99.29	
3	Units sold to Discoms (MU)		161.27		59.95	59.94	777.38	
4	Rate of Fixed Charges. (1/3)		9.786		15.859	15.860	2.425	
5	Rate of Variable Charges.							
5.1	Rate of Energy Charge from Primary Fuel (REC) _p	5.1						
	(i) Coal/ Lignite		1.590		1.802	1.803	1.025	
	(ii) Imported Coal							
	(iii) Any Other fuel							
	Total 2.1							
5.2	Rate of Energy Charge from Secondary Fuel (REC) _s	5.1	0.178		0.255	0.255	0.252	
5.3	Total-(2) Rate of Energy Charge ex-bus(REC)^{3A,3B,3C}	5.1	11.554		17.916	17.917	3.702	

Summary of Tariff Proposal

Form 1.2

Aggregate Revenue Requirement

RVUN

Giral unit 2

Name of the Petitioner

Name of the Power Station/Unit:

S.No.	Particulars	Reference Form	FY 2013-14	2014-15		(Rs. Crore)		Remarks
			Actual/Audited	Approved by the Commission	Apr-Sep (Actual)	Oct to March Estimated	2015-16 Anticipated	
1	2	3	4	5	6	7	9	10
A	Receipts							
1	Revenue from Sale of Power (Tariff income)	3.1	186.33		107.40	107.40	287.81	
2	Non Tariff income		0.08		0.04	0.04	0.09	
3	Revenue Subsidies, Grants & Subvention from State Govt.							
	Total- (A)		186.41		107.45	107.45	287.90	
B	Expenditure							
1	Variable Costs, including Fuel Cost	5.1	28.51		12.33	12.33	99.29	
2	Depreciation	6.1	48.29		24.15	24.15	48.29	
3	Interest on term Loan & Finance charges	6.2	75.98		34.97	34.97	63.92	
4	Return on Equity	6.9	0.00		14.34	14.34	28.68	
5	Tax on ROE	6.15	0.00	0.00	3.80	3.80	7.60	
6	Interest on Working Capital	6.11	4.34		2.34	2.34	7.18	
7	O & M Expenses	4.1	27.58		14.65	14.65	31.13	
8	Insurance Charges	6.14	1.58		0.83	0.83	1.75	
9	ARR and Tariff Petition Fee		0.13		0.03	0.03	0.06	
C	Total- (B) Expenditure		186.41	0.00	107.45	107.45	287.90	
D	A.R.R. (C-A.2)		186.33		107.40	107.40	287.81	

Plant Characteristics

Name of the Petitioner	RVUN
Name of the Power Station/Unit:	Giral Unit 2

Basic characteristics of the plant ¹	CIRCULATING FLUIDISED BED COMBUSTION GENERATOR						
Special Features of the Plant							
Site Specific Features ²	PIT HEAD GENERATION STATION						
Special Technological Features ³							
Environmental Regulation related features ⁴	ESP FOR SPM REGULATION AND LIME STONE FOR SOX REGULATION						
Any other special features							
Fuel Details ⁵	Primary Fuel		Secondary Fuel		Alternate Fuels		
	LIGNITE		HFO/LDO/LIME				
Details	Unit number						
	1	2	3	4	5	6	& so on
Installed Capacity (IC)	125 MW						
Date of Commercial Operation (COD)	12.03.2011						
Type of cooling system ⁶	CLOSED CKT						
Type of Boiler Feed Pump ⁷	MOTOR DRIVEN						
Pressure (kg/cm2)	131						
Temperature 0C							
-At Superheater Outlet	540						
-At Reheater Outlet	540						
Turbine Cycle heat Rate(Kcal/ Kwh)							
Boiler Efficiency (%)							
Guaranteed Design Heat rate (kCal/kWh) _s	2483.9						
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

Name of Petitioner

RVUN

Name of the Station/Unit:

Giral unit 2

S. No.	Particulars	Units	FY 2013-14	FY 2014-15			2015-16	Remarks
			Audited/Actual	Approved by the Commission	Apr-Sep (Actual)	Oct to March Estimated	Anticipated	
1	2	3	4	5	6	7	8	9
2	Operational Parameters - Lignite							
2.1	Total Capacity	MW	125.00	125.00	125.00	125.00	125.00	
2.2	Availability	%	37.45%	0.00%	31.43%	31.43%	80.00%	
2.3	Plant Load Factor	%	18.53%	0.00%	15.38%	15.38%	80.00%	
2.4	Gross Generation	MU	202.94	0.00	84.43	84.43	878.40	
2.5	Auxiliary Energy Consumption	%	20.53%	0.00%	29.00%	29.00%	11.50%	
2.6	Auxiliary Energy Consumption	MU	41.66	0.00	24.48	24.48	101.02	
2.7	Net Generation	MU	161.27	0.00	59.95	59.94	777.38	
2.6	Heat Rate	Kcal/Kwh	3538.00	0.00	3901.00	3901.00	2777.37	

Revenue from Sale of Power

Name of the Company
Name of the Power Station :RVUN
Giral unit 2

FY 2013-14

Rs. Crore

S.No.	Particulars	Allocation (in %)/contract demand	Unit Sold (M.U.)	% of total Unit Sold	Demand/fix ed 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)	JVVNL		62.90	39.0%	61.55	11.12		72.67	11.554	
(b)	AVVNL		46.77	29.0%	45.77	8.27		54.04	11.554	
(c)	JDVVNL		51.61	32.0%	50.50	9.12		59.63	11.554	
2	Other recoveries									
3	Gross Revenue From Sale of Power									
4	less: i) State Levies Payable to Govt.									
5	Less. : ii) Revenue during trial runs (capitalised)									
6	Net revenue		161.27		157.818611	28.51		186.33		

FY 2014-15

Rs. Crore

S.No.	Particulars	Allocation (in %)/contract demand	Unit Sold (M.U.)	% of total Unit Sold	Demand/fix ed 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)	JVVNL		47.96	40.0%	76.06	9.87		85.92	17.917	
(b)	AVVNL		33.57	28.0%	53.24	6.91		60.15	17.917	
(c)	JDVVNL		38.37	32.0%	60.85	7.89		68.74	17.917	
2	Other recoveries									
3	Gross Revenue From Sale of Power									
4	less: i) State Levies Payable to Govt.									
5	Less. : ii) Revenue during trial runs									
6	Net revenue		119.89		190.144609	24.66		214.81		

FY 2015-16

Rs. Crore

S.No.	Particulars	Allocation (in %)/contract demand	Unit Sold (M.U.)	% of total Unit Sold	Demand/fix ed 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)	JVVNL		310.95	40.0%	75.41	39.71		115.12	3.702	
(b)	AVVNL		217.67	28.0%	52.79	27.80		80.59	3.702	
(c)	JDVVNL		248.76	32.0%	60.33	31.77		92.10	3.702	
2	Other recoveries									
3	Gross Revenue From Sale of Power									
4	less: i) State Levies Payable to Govt.									
5	Less. : ii) Revenue during trial runs (capitalised)									
6	Net revenue		777.38		188.53	99.29		287.81		

NON-TARIFF INCOME

Name of the Petitioner

RVUN

Name of the Power Station/ Unit:

Giral unit 2

Rs. Crore

S.No	Particulars	FY 2013-14	2014-15		2015-16	Remarks	
		(Actuals/audited)		Apr-Sep (Actual)	Oct to March Estimated		(Anticipated)
1	2	3	4	5	6	7	8
	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	0.080		0.042	0.042	0.088	
	Total non-tariff income	0.080		0.042	0.042	0.088	

REVENUE SUBSIDIES & GRANTS

Name of the Petitioner: RVUN
 Name of the Power Station/Unit : Giral unit 2

S. No.	Particulars	FY 2012-13	2013-14			2014-15	Remarks
		(Actuals/audited)	Approved by the Commission	Apr-Sep (Actual)	Estimated for the year	(Anticipated)	
1	2	3	4	5	6	7	8
A)	Revenue Subsidies & Grants	NIL					
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:

RVUN

Name of the Power Station/Unit :

Giral unit 2

Rs. Crore

S. No.	Particulars	FY 2012-13	2013-14		2014-15	Remarks	
		(Actuals / audited)	Approved by the Commission	Apr-Sep (Actual)	Estimated for the year		(Anticipated)
1	2	3	4	5	6	7	8
A	Capital Cost						
	Subsidy towards cost of Capitals Asset						
	Grant towards cost of Capitals Assets						
	Receipts from State Govt. under any scheme as grant/subsidy						
	Total						

NIL

Form G 4.1

O&M Expenses

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

RVUN
Giral unit 2

S.No.	Particulars	FY 2013-14	2014-15			2015-16
		(Actuals/audited)	Approved by the Commission	Apr-Sep (Actual)	Oct to March Estimated	(Anticipated)
1	2	3	4	5	6	8
1	O&M Expense norms (Rs. per MW)			0.11	0.11	0.22
2	Total Capacity in MW			125.00	125.00	125.00
3	O&M expense	24.99		13.23	13.23	28.00
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	Pumping Station No.1 :-					
b.1	Water pumping cost	0.24		0.13	0.13	0.29
b.2	Power consumption Cost	1.89		1.04	1.04	2.28
b.3	Repair Cost	0.12		0.07	0.07	0.15
b.4	Employee cost	0.34		0.19	0.19	0.41
c	Pumping Station No.2 :-					
	and so on					
d	Total (4) Special O&M Expenses	2.59		1.42	1.42	3.13
5	Totsl O&M expenses	27.58	0.00	14.65	14.65	31.13

Form G 5.2
Lignite for computation of Energy Rate

Name of the Petitioner:

RVUN

Name of the Power Station/ Unit:

Giral unit 2

S.No	Month	Unit	For preceeding 3rd July.-2014	For preceeding 2nd Month	For preceeding
			Lignite	Lignite	Lignite
1	2	3	4	6	8
1	Quantity of coal/lignite instock at the beginning of the month	(MMT)	81387.71	96685.78	86174.89
2	Quantity of Coal/Lignite supplied by Coal/Lignite Company	(MMT)	51969.93	45138.74	17204.86
3	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company for diversion of wagons etc.	(MMT)	NIL	NIL	NIL
4	Coal supplied by Coal/Lignite Company (2+3)	(MMT)	51969.93	45138.74	17204.86
5	Normative Transit & Handling Losses (For coal/Lignit based Projects)	(MMT)	Nil, as Power Plant at the head.	Nil, as Power Plant at the head.	
6	Net coal / Lignite Supplied (4-5)	(MMT)	51969.93	45138.74	17204.86
7	Total coal (Receipts & Opening Stock) (1)+(6)	(MMT)	133357.64	141824.52	103379.75
8	coal/lignite burnt/consumed	(MMT)	36671.86	55649.63	15596.54
9	Coal/lignite in stock at the end of the month	(MMT)	96685.78	86174.89	87783.21
10	Value of coal/lignite in stock	(Rs.)	78062208.17	94670848.34	85453606.17
11	Amount charged by the Coal /Lignite Company	(Rs.)	52516133.96	45966584.49	18116717.58
12	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)	NIL	NIL	NIL
13	Total amount Charged (11+12)	(Rs.)	52516133.96	45966584.49	18116717.58
14	Transportation charges by rail/ship/road transport	(Rs.)	Transportation charges included	Transportation charges included	
15	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)	NIL	NIL	NIL
16	Demurrage Charges, if any	(Rs.)	NIL	NIL	NIL
17	Cost of diesel in transporting coal through MGR system, if applicable	(Rs.)	NIL	NIL	NIL
18	Total Transportation Charges (14+/-15-16+17)	(Rs.)	NIL	NIL	NIL
19	Total amount Charged for coal/lignite supplied including Transportation (13+18)	(Rs.)	130578342.1	140637432.8	103570323.8
20	Average cost of coal/lignite (Opening stock + receipts) (19/7)	(Rs/MMT)	979.16	991.63	1001.84
21	Cost of coal in stock at the end of the month (20)x(9)	(Rs.)	94670757.97	85453596.49	87945032.56
22	Weighted average GCV of coal/ Lignite as fired	(kCal/Kg)			
23	Weighted average Sulphur content	(%)			

Note:-1.Similar details to be furnished for natural gas/liquid fuel for CCGT station and secondary fuel oil for coal/lignite based thermal plants

**Form G 5.3
Energy Charges for Lignite Generation**

Name of the Petitioner: RVUN
Name of the Power Station/Unit: Girai unit 2

S.No.	Particulars	Units	FY 2013-14	FY 2014-15			2015-16	Remarks
			April-March	Approved by the Commission	Apr-Sep (Actual)	Oct to March Estimated	Anticipated	
1	2	3	4	5	6	7	9	
1	Operational Parameters							
1.1	Total Capacity	MW	125	125	125	125	125	
1.2	Availability	%	37.45%		31.43%	31.43%	80.00%	
1.3	PLF	%	18.53%		15.38%	15.38%	80.00%	
1.4	Gross Generation	MU	202.938		84.428	84.428	878.4	
1.5	Auxiliary Energy Consumption	%	20.53%		29.00%	29.00%	11.50%	
1.6	Auxiliary Energy Consumption	MU	41.66		24.48	24.48	101.02	
1.7	Net Generation	MU	161.27		59.95	59.94	777.38	
1.8	Heat Rate	kcal/kWh	3538.00		3901.00	3901.00	2777.37	
2	Fuel Parameters (for each primary and secondary fuel)							
2.1	Gross Calorific Value							
2.1.1	Fuel 1 (Lignite COAL)	kcal/unit	3029		2974	2974	2974	
2.1.2	Fuel 2 (LDO)	kcal/unit	10600		10600	10600	10600	
2.1.3	Fuel 3 (LIME)	kcal/unit						
2.2	Landed Fuel Price per unit (Please specify the fuel)							
2.2.1	Fuel 1 (Lignite COAL)	Rs./MT	914		975	975	975	
2.2.2	Fuel 2 (LDO)	Rs./KL	65370		63978	63978	63978	
2.2.3	Fuel 3 (LIME)	Rs./MT	611		611	611	611	
3	Fuel Consumption and Heat Contribution (for each fuel)							
3.1	Specific Fuel Consumption							
3.1.1	Fuel 1 (Lignite COAL)	kg/kWh	1.38		1.31	1.31	0.93	
3.1.2	Fuel 2 (LDO)	ml/kWh	2.06		2.48	2.48	1.00	
3.1.3	Fuel 3 (LIME)	kg/kWh	0.010		0.016	0.016	0.2600	
3.2	Total Fuel Consumption							
3.2.1	Fuel 1 (Lignite COAL)	MT	280475.00		110774.00	110774.00	817193.41	
3.2.2	Fuel 2 (LDO)	KL	418.05		225.00	225.00	878.40	
3.2.3	Fuel 3 (LIME)	MT	2142.00		1417.00	1417.00	228384.00	
3.3	Heat Content (each fuel separately)							
3.3.1	Fuel 1 (Lignite COAL)	Million kcal	849558.775		329774.198			
3.3.2	Fuel 2 (LDO)	Million kcal	4430.8		2385			
3.3.3	Fuel 3 (LIME)	Million kcal						
	Total Heat Content							
4	Total Fuel Cost							
4.1.1	Fuel 1 (Lignite COAL)	Rs Crore	25.65		10.81	10.81	79.71	
4.1.2	Fuel 2 (LDO)	Rs Crore	2.73		1.44	1.44	5.62	
4.1.3	Fuel 3 (LIME)	Rs Crore	0.13		0.09	0.09	13.95	
	Total Fuel Cost	Rs Crore	28.51		12.33	12.33	99.29	
5	Details of limestone consumption (Applicable for Lignite based generating stations)							
6	Other Charges and Adjustments							
	Total Other Charges and Adjustments	Rs Crore						
7	Total Cost (4+5+6)	Rs Crore	28.51		12.33	12.33	99.29	
8	Cost of Generation per unit (at Generation Terminal) (7/1.4)	Rs/kWh	1.405		1.461	1.461	1.130	
9	Energy Charge per unit (ex-bus)							
9.1.1	Fuel 1 (Lignite COAL)	Rs/kWh	1.590		1.802	1.803	1.025	
9.1.2	Fuel 2 (LDO)	Rs/kWh	0.169		0.240	0.240	0.072	
9.1.3	Fuel 3 (LIME)	Rs/kWh	0.008		0.014	0.014	0.180	
	Total--(9)	Rs/kWh	1.768		2.057	2.057	1.277	

Fixed assets & provisions for depreciation

Name of the Petitioner
Name of the Power Station :

RVUN
Giral unit 2

FY 2013-14

S.No.	Fixed Assets	Accounting Code	Rates	Gross Block				Depreciation				Net Bloc k at March 31,2014	Net Bloc k at March 31,2014
				Balance as at April , 2013	Additon during the year	Adjustment/de duction	Balance as at 31 st march 2014	Balance as at April , 2013	Additon during the year	Adjustment/deducti on	Balance as at 31 st march 2014		
1	Land & land rights	10.1	0	0.03	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.03	0.03
2	Building & Civil works of Power plant	10.2	3.34	2.11	0.00	0.00	2.11	0.14	0.07	0.00	0.22	1.90	1.97
3	Hydraulic works	10.3	5.28	32.06	0.00	0.00	32.06	3.48	1.69	0.00	5.17	26.89	28.59
4	Other Civil works	10.5	3.34	0.37	0.00	0.00	0.37	0.03	0.01	0.00	0.04	0.33	0.34
5	Plant & machinery	10.6	5.28	862.88	0.00	0.00	862.88	93.62	45.56	0.00	139.18	723.70	769.26
6	Lines and Cable Networks	10.7	5.28	18.06	0.00	0.00	18.06	1.96	0.95	0.00	2.91	15.14	16.10
7	Vehicles	10.8	9.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	Furniture & fixtures	10.9	6.33	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.01
9	Office Equipments	0	6.33	0.04	0.00	0.00	0.04	0.00	0.00	0.00	0.01	0.03	0.03
10	Capital spares	0	5.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	total	0	0	915.56			915.56	99.23	48.29	0.00	147.52	768.03	816.32

FY 2014-15

S.No.	Fixed Assets	Accounting Code	Rates	Gross Block				Depreciation				Net Bloc k at March 31,2015	Net Bloc k at March 31,2014
				Balance as at April , 2014	Additon during the year	Adjustment/de duction	Balance as at 31 st march 2015	Balance as at April , 2014	Additon during the year	Adjustment/deducti on	Balance as at 31 st march 2015		
1	Land & land rights	10.1	0	0.03			0.03	0.00	0.00	0.00	0.00	0.03	0.03
2	Building & Civil works of Power plant	10.2	3.34	2.11			2.11	0.22	0.07	0.00	0.29	1.83	1.90
3	Hydraulic works	10.3	5.28	32.06			32.06	5.17	1.69	0.00	6.86	25.20	26.89
4	Other Civil works	10.5	3.34	0.37			0.37	0.04	0.01	0.00	0.05	0.32	0.33
5	Plant & machinery	10.6	5.28	862.88			862.88	139.18	45.56	0.00	184.74	678.14	723.70
6	Lines and Cable Networks	10.7	5.28	18.06			18.06	2.91	0.95	0.00	3.87	14.19	15.14
7	Vehicles	10.8	9.5	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	Furniture & fixtures	10.9	6.33	0.01			0.01	0.00	0.00	0.00	0.00	0.01	0.01
9	Office Equipments	0	6.33	0.04			0.04	0.01	0.00	0.00	0.01	0.03	0.03
10	Capital spares	0	5.28	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	total	0	0	915.56			915.56	147.52	48.29	0.00	195.82	719.74	768.03

FY 2015-16

S.No.	Fixed Assets	Accounting Code	Rates	Gross Block				Depreciation				Net Bloc k at March 31,2016	Net Bloc k at March 31,2015
				Balance as at April , 2015	Additon during the year	Adjustment/de duction	Balance as at 31 st march 2015	Balance as at April , 2014	Additon during the year	Adjustment/deducti on	Balance as at 31 st march 2015		
1	Land & land rights	10.1	0	0.03			0.03	0.00	0.00	0.00	0.00	0.03	0.03
2	Building & Civil works of Power plant	10.2	3.34	2.11			2.11	0.29	0.07	0.00	0.36	1.76	1.83
3	Hydraulic works	10.3	5.28	32.06			32.06	6.86	1.69	0.00	8.56	23.51	25.20
4	Other Civil works	10.5	3.34	0.37			0.37	0.05	0.01	0.00	0.06	0.30	0.32
5	Plant & machinery	10.6	5.28	862.88			862.88	184.74	45.56	0.00	230.30	632.58	678.14
6	Lines and Cable Networks	10.7	5.28	18.06			18.06	3.87	0.95	0.00	4.82	13.24	14.19
7	Vehicles	10.8	9.5	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	Furniture & fixtures	10.9	6.33	0.01			0.01	0.00	0.00	0.00	0.00	0.01	0.01
9	Office Equipments	0	6.33	0.04			0.04	0.01	0.00	0.00	0.01	0.03	0.03
10	Capital spares	0	5.28	0.00			0.00	0.00	0.00	0.00	0.00	0.00	0.00
0	total	0	0	915.56			915.56	195.82	48.29	0.00	244.11	671.45	719.74

Form G 6.2

LOAN REPAYMENT & INTREST LIABILITY

Name of the Petitioner
Name of the Power Station : RVUN
Giral unit 2

Form G 6.2
LOAN REPAYMENT & INTREST LIABILITY

Name of the Petitioner
Name of the Power Station : _____

FY 2013-14														Rs. Crore				FY 2013-14														Rs. Crore			
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	Loan swapped during the Year																				
						Fixed	Floating								Domestic loan	Foreign loan	old Interest rate	New Interest rate																	
1	2	2A	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18																	
	Term Loan & Other loan		631.33		48.29			583.04	12.48%	75.78	0.2	75.98		75.98																					
	Total (for Station)		631.33	0.00	48.29	0.00	0.00	583.04	12.48%	75.78	0.20	75.98	0.00	75.98																					

FY 2014-15														Rs. Crore				FY 2014-15														Rs. Crore			
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	Loan swapped during the Year																				
						Fixed	Floating								Domestic loan	Foreign loan	old Interest rate	New Interest rate																	
1	2	2A	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18																	
	Term Loan		583		48.29			534.74	12.48%	69.75	0.2	69.95		69.95																					
	Total (for Station)		583.04	0.00	48.29	0.00	0.00	534.74	12.48%	69.75	0.20	69.95	0.00	69.95																					

FY 2015-16														Rs. Crore				FY 2014-15														Rs. Crore			
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	Loan swapped during the Year																				
						Fixed	Floating								Domestic loan	Foreign loan	old Interest rate	New Interest rate																	
1	2	2A	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18																	
	Term Loan		535		48.29			486.45	12.48%	63.72	0.2	63.92		63.92																					
	Total (for Station)		534.74	0.00	48.29	0.00	0.00	486.45	12.48%	63.72	0.20	63.92	0.00	63.92																					

Details of Project Specific Loans

Name of the Petitioner _____

Name of the Power Station _____

Commercial Operation Date _____

Particulars	Year (n-1)*						Rs. Crore
	Package1	Package2	Package3	Package4	Package5	Package6	
1	2	3	4	5	6	7	
Source of Loan ¹	PFC						
Currency ²	Indian						
Amount of Loan sanctioned							
Amount of Gross Loan drawn upto previos year/during current/ensuing year / COD ^{3,4,5,13,15}							
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							

Consolidated report on additions to Fixed Assets during the year

Name of the Petitioner _____

Name of the Power Station : _____

(Rs. in crores)

S.No.	Asset Description	Asset Code	Previous year (n-1)							Current Year (n)							Current Year (n+1)							
			(Actuals/audited)							(Actuals & Anticipated)							(Anticipated)							
			Cost	Interest	Finance Charges	Pre-Operative expenses	Exchange fluctuations	Total	Date of commissioning	Cost	Interest	Finance Charges	Pre-Operative expenses	Exchange fluctuations	Total	Date of commissioning	Cost	Interest	Finance Charges	Pre-Operative expenses	Exchange fluctuations	Total	Date of commissioning	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	11	12	13	14	15	16	17	
	Nil																							
	Nil																							
	Nil																							
	Nil																							
	Nil																							
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	Nil																							
	Nil																							
	Nil																							
	Nil																							
	Nil																							
	Nil																							

Form G 6.5

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

Name of the Petitioner :					
Name of the Power Station :					
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	NA				
Capital Cost excluding IDC & FC					
Foreign Component, if any (In Million US \$ or the relevant Currency)					
Domestic Component (Rs. Cr.)					
Capital cost excluding IDC & FC (Rs. Cr)					
IDC & FC					
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)					
Schedule of Commissioning					
COD of Unit-I/Block-I					
COD of Unit-II/Block-II					

COD of last Unit/Block					

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

Name of the Petitioner: _____

Name of the Power Station : _____

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				NA		
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						

Break-up of Construction / Supply / Service packages

Name of the Petitioner : _____
 Name of the Power Station : _____

S.No.	Name/No. of Construction / Supply / Service Package	Scope of works ¹ (in line with head of cost break-ups as applicable)	Whether awarded through ICB/DCB/ Departmentally/ Deposit Work	No. of bids received	Date of Award	Date of Start of work	Date of Completion of Work	Value of Award ² in (Rs. Cr.)	Firm or With Escalation in prices	Actual expenditure till the completion or up to COD whichever is earlier(Rs.Cr.)	Taxes & Duties and Pre-operative Expenses	IDC, FC, FERV & Hedging cost	Variation (Rs.Cr.)	Variation on account of change in Price (Rs. Cr.)	Reason for change in Price	Variation on account of change in Scope of Work (Rs. Cr.)	Reason for Change in Scope of Work
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1																	
2																	
3																	
4																	
5																	
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31																	
32																	

NA

Draw Down Schedule for Calculation of IDC & Financing Charges (year wise from commencement of works to COD)

Name of the Petitioner: _____

Name of the Power Station _____

Rs. Crore

S.No.	Draw Down Particulars	Quarter 1			Quarter 2			Quarter 3			Quarter 4		
		Quantum in Foreign currency	Exchange Rate on draw down date	Amount in Indian Rupee	Quantum in Foreign currency	Exchange Rate on draw down date	Amount in Indian Rupee	Quantum in Foreign currency	Exchange Rate on draw down date	Amount in Indian Rupee	Quantum in Foreign currency	Exchange Rate on draw down date	Amount in Indian Rupee
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Loans												
1.1	Foreign Loans												
1.2	Indian Loans												
2	Equity												
2.1	Foreign equity drawn												
2.2	Indian equity drawn												
	Total equity deployed												

NA

Form G 6.9

RETURN ON EQUITY

Name of the Petitioner: _____

Name of the Power Station : _____

								Rs. Crore
S.No.	Particulars	Reference	Previous year (n-1)	Current Year (n)			Ensuing Year (n+2)	Remarks
			(Actuals/audited)	Approved by the Commission	Apr-Sep (Actual)	Estimated for the year	(Anticipated)	
1	2	3	4	5	6	7 = 5+6	8	9
1	Equity at the beginning of the year				185	185	185.00	
2	Capitalisation				0	0	0.00	
3	Equity portion of capitalisation				0	0	0.00	
4	Equity at the end of the year				185	185	185.00	
	Return Computation							
5	Return on Equity at the beginning of the year	15.50%*(1)			14.3375	28.675	28.68	
6	Return on Equity portion of capitalisation (on pro-rata basis)	15.5%*(3)/(n/12)			0	0	0.00	
7	Total Return on Equity	(5)+(6)			14.3375	28.675	28.68	

Form G 6.11

Name of the Petitioner
Name of the Power Station

Interest on Working Capital
RVUN
Giral unit 2

Rs. Crore

S. No.	Particulars	FY 2013-14	FY 2014-15			2015-16	Remarks
		(Actuals / audited)	Approved by the Commission	Apr-Sep (Actual)	Oct to March Estimated	(Anticipated)	
1	2	3	4	5	6 = 4+5	8	9
1	Landed Cost of coal or lignite for 1½ (one and a half) months	3.21	0.00	1.35	1.35	9.96	
2	Cost of secondary fuel oil for two months	0.46	0.00	0.24	0.24	0.94	
3	Operation and Maintenance expenses for one month	2.30	0.00	1.22	1.22	2.59	
4	Maintenance spares @ 20% of operation and maintenance expenses	5.52	0.00	2.93	2.93	6.23	
5	Receivables equivalent to 1½ (one and a half) months of fixed and variable charges	23.29	0.00	13.43	13.43	35.98	
6	Landed cost of limestone for 1½ (one and a half) month	0.02	0.00	0.01	0.01	1.74	
	Total Working Capital	34.78	0.00	19.18	19.18	57.44	
	Rate of Interest (as per norms)	12.48%		12.21%	12.21%	12.50%	
	Interest on Working Capital	4.34		2.34	2.34	7.18	

Insurance Expenses

Name of the Petitioner:
Name of the Power Station :

RVUN
Giral unit 2

Rs. Crore

S. No.	Particulars	FY 2013-14	FY 2014-15			2015-16	Remarks
		n-1	n			n+1	
		(Actuals/audited)	Approved by the Commission	Apr-Sep (Actual)	Oct to March Estimated	(Anticipated)	
1	2	4	5	6	7=6+5	8	9
	Insurance Expenses	1.58		0.83	0.83	1.75	
a)	Provision made/ proposed for the year						
b)	Acual insurance expenses incurred	0.655					
c)	Average Net Fixed Assets	792.18		743.89	743.89	695.59	

Tax on R.O.E.

Name of the Petitioner: _____

Name of the Power Station : _____

Rs.

S. No.	Particulars	Previous Year (n-1)	Current Year (n)	Current Year FY 2014-15	Ensuing Year FY 2015-16	Remarks
		(Actuals/audited)	Actual/ Estimated	Proposed to be recovered	Proposed to be recovered	
1	2	3	4	5	6	7
A)	Advance Tax assessed & deposited on----	NIL				
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)			7.60	7.60	
B)	Deffered tax liability before 01.04.2009					

Form G 7.1

Proposed improvement in performance

Name of the Petitioner

RVUN

Name of the Power Station :

Giral unit 2

Rs. Crore

S.No	Particulars	FY 2013-14	2014-15			2015-16					Remarks	
		n-1	n			n+1	n+2	n+3	n+4	n+5		
		(Actuals / audited)	Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April - March)	(Anticipated)						
1	2	3	4	5	6 = 4+5	7	8	9	10	11	12	
1	Plant load factor	18.53%	15.38%	15.38%	15.38%	80.00%						
2	Auxiliary consumption	20.53%	29.00%	29.00%	29.00%	11.50%						
3	Specific fuel consumption											
(I)	Lignite, kg / kWh	1.38	1.31	1.31	1.31	0.93						
ii)	gas, SCM / kWh											
(iii)	oil, ml / kwh	2.06	2.48	2.48	2.48	1.00						
(iv)	Limestone kg / kWh	0.01	0.02	0.02	0.02	0.26						
(v)	any other fuel											
4	Station heat rate, kcal / kwh	3538.00	3901.00	3901.00		2777.37						
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, %											
8	Other bye product utilisation(give list)											
9	Outstanding dues, days of receivables											
10	Availability	37.45%	31.43%	31.43%		80.00%						

Note:-1. Remarks to indicate manner in which performance parameters reflected in the tariff proposal

2.list is illustrative