

**Petition for
Aggregate Revenue Requirement (ARR) and Tariff
for FY 2018-19 For
Ramgarh Gas & Thermal Power Plant (RGTPP) 160 MW Stage -III**

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

January-2018

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Definitions

Act	The Electricity Act, 2003
Application	This ARR and Tariff Petition for FY 2018-19 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
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Ajmer Discom	Ajmer Vidyut Vitran Nigam Limited
CSR	Corporate Social Responsibility
FRP	Financial Restructuring Plan
FY	Financial Year
FY – 17	Financial Year 2016-17
FY – 18	Financial Year 2017-18
FY – 19	Financial Year 2018-19
GCV	Gross Calorific Value
GFA	Gross Fixed Assets
Gol	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

Notes:

In this Petition:

All currency figures used in this Application, unless specifically stated otherwise, are in Rs Crores.

Capacity figures used in this Application, unless specifically stated otherwise, are in Megawatt (MW).

All energy unit figures used in this Application, unless specifically stated otherwise, are in Million Units (MU).

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 2015 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, 18.05.2010 and further supplementary PPA was signed on date 29.06.2015 which includes RGTPP (110.50 MW).
- 1.3 RGTPS 160 MW stage 3 has achieved COD in two phases (GT (110 MW) on dated 06/12/2013 and STG (50 MW) on dated 07/06/2014).
- 1.4 RVUN have to file its petition for determination of ARR and Tariff for 2018-19 in accordance with provision of RERC tariff regulation 2014. Accordingly this petition is being submitted for RGTPP 160 MW for FY 2018-19 before RERC for ARR and Tariff determination.

A2: GENERATION FORECAST

- 1.5 The installed capacity of RGTPP Stage-III is 160 MW. The estimated figures of Gross generation, PLF & net energy sale to three Discoms from RGTPP station of RVUN for the period FY 2016-17, FY 2017-18 and FY 2018-19 are as shown in table below:

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

Particular	FY 16-17	FY 17-18	FY 18-19
Capacity (MW)	160.00	160	160
PLF (%)	69.57%	76.16%	70.00%
Gross generation (MU)	975.13	1,067.46	981.12
Aux Cons. (MU)	38.98	34.52	23.55
Aux Cons. (%)	4.00	3.23	2.40
Net Generation (MU)	936.15	1,032.94	957.57

- 1.6 The fixed cost elements as detailed hereunder for RGTPP for the FY 2016-17, FY 2017-18 and FY 2018-19 are as below.

A3: CAPITAL COST

- 1.7 It is submitted that RGTPP Stage – III (160 MW) had achieved the date of commercial operation 07.06.2014 subsequently on 14.05.2014 RVUN has filed the petition for determination of provisional Tariff under regulation 42(4) of RERC tariff Regulation 2014 before the Hon'ble Commission. The Hon'ble Commission in its order dated 18.06.2015 has finalized the provisional capital cost of RGTPP Stage-III of Rs 684.88 Cr. against the RVUN Claim of Rs. 806.66 Cr.
- 1.8 For RGTPP Stage- III (160 MW) the opening balance of capital cost for the FY 2014-15 is considered as Rs. 684.89 Cr with additional capitalisation after the COD of Rs 29.09 Crore in FY 14-15, Rs 29.72 crore in FY 15-16 and Rs 3.92 Crore in FY 16-17 against the original scope of work as per regulation 17 (1)(a)&(b) of RERC Tariff Regulation 2014. Therefore RVUN is claiming capital cost of RGTPP Stage- III (160 MW) as Rs. 747.62 crore.
- 1.9 Regulation 19 of RERC Tariff Regulations 2009 and regulation 17 of RERC Tariff Regulations 2014 on additional capitalization are reproduce below:

19 Additional capitalization

- 1.10 (1) *The following capital expenditure, actually incurred after the date of commercial operation and duly audited, may be considered by the Commission, subject to prudent check*
- (a) *Due to deferred liabilities within the original scope of work,*
 - (b) *On works within the original scope of work, deferred for execution*
 - (c) *To meet award of arbitration or satisfaction of order or decree of a court arising out of original scope of works,*
 - (d) *On account of change in law,*
 - (e) *On procurement of initial spares included in the original project costs subject to the ceiling norm laid down in Regulation 18,*
 - (f) *Any additional works/ services, which have become necessary for efficient and successful operation of a generating station or a transmission or a distribution system but not included in the original capital cost:*

17 Additional capitalization

- (1) *The following capital expenditure, actually incurred after the date of commercial operation and upto the cut-off date and duly audited, may be considered by the Commission against the original scope of work , subject to prudence check:*
- (a) *Due to undischarged liabilities;*
 - (b) *On works deferred for execution;*
 - (c) *To meet award of arbitration or satisfaction of order or decree of a court;*
 - (d) *On account of change in law;*
 - (e) *On procurement of initial spares included in the original project costs subject to the ceiling norm laid down in regulation 16.*
- (2) *The capital expenditure incurred on the following counts after the cut-off date may, at its discretion, be admitted by the Commission, subject to prudence check:*
- (i) *Liabilities to meet award of arbitration or for compliance of the order or decree of a court;*
 - (ii) *Change in law;*
 - (iii) *Deferred works relating to ash pond or ash handling system in the original scope of work;*
 - (iv) *Any additional works/ services, which have become necessary for efficient and successful operation of a generating station or transmission system but not included in the original capital cost.*

FIXED CHARGES

A4: RGTPP (110.5 MW AND 160 MW) ANNUAL CAPACITY (FIXED) CHARGES FOR 2018-19.

Depreciation:-

1.11 The depreciation has been computed after considering the above capital cost and additions to the fixed assets as follows:

Table 2 Depreciation (Rs. in Crore)

Station	FY 16-17	FY 17-18	FY 18-19
Depreciation	38.38	38.45	38.45

Interest on Loans:-

1.12 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 as per regulation 21 of RERC tariff regulations 2014. The loan repayment amount for term loans and other loans combined has been taken equal to the depreciation figure envisaged for FY 2016-17, FY 2017-18 and FY 2018-19.

1.13 Estimated figures for interest on term loan, other loan and finance charges as computed under format 6.2 are summarised in table below:

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

Station	FY 16-17	FY 17-18	FY 18-19
RGTPP			
Interest (Term Loan + Transitional Loan) and finance charges	55.37	51.32	47.09

Interest on working Capital

1.14 The interest on working capital loan for FY 2016-17, FY 2017-18 and FY 2018-19 has been computed as per the norms defined under clause No.27 of RERC Tariff regulation 2014. For FY 2016-17, FY 2017-18 and FY 2018-19, 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.

1.15 Estimated figures of Interest on Working Capital Loan as computed under format 6.11 is summarised as below:

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

Station	FY 16-17	FY 17-18	FY 18-19
RGTPP			
Interest on Working Capital	8.85	9.16	8.68

Operation & Maintenance Expenses

1.16 The Operation & Maintenance Expenses have been computed as per the norms prescribed under Regulation 47 of RERC Tariff Regulation 2014.

1.17 Estimated Figures for the period FY 2016-17, FY 2017-18 and FY 2018-19 as computed under format 4.1 are summarised in table below:

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

Station	FY 16-17	FY 17-18	FY 18-19
RGTPP			
Operation and Maintenece	21.62	22.88	24.22

Recovery of ARR & Tariff Petition Fees

1.18 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.

1.19 The ARR & Tariff Petition Fees for FY 2016-17, FY 2017-18 and FY 2018-19 are summarised in table below:

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

Station	FY 16-17	FY 17-18	FY 18-19
RGTPP			
Petition Fee	0.08	0.08	0.08

Insurance Charges

1.1 RVUN is claiming the insurance charges for RGTPP for the year 2018-19 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 7: Insurance Charges (Rs. in Crore)

Station	FY 16-17	FY 17-18	FY 18-19
RGTPP			
Insurance Charges	0.43	0.45	0.47

Return on Equity (ROE)

1.2 The Return on Equity has been computed as per the norms prescribed under Regulation 20 of RERC Tariff Regulation 2014.

1.3 The Return on Equity (ROE) for FY 2016-17, FY 2017-18 and FY 2018-19 are summarised in Table below:

Table 8: Return on Equity (Rs. in Crore)

Station	FY 16-17	FY 17-18	FY 18-19
RGTPP			
ROE	23.12	23.18	23.18

Non-Tariff Income

1.4 The following are the main head of accounts of Non tariff income:

- a) Sale of Scrap
- b) Interest on FD/ Staff Loans
- c) Miscellaneous receipts (rebates etc)

1.5 Estimated figures of Non Tariff Income for FY 2016-17, FY 2017-18 and FY 2018-19 are summarised in table below:

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

Station	FY 16-17	FY 17-18	FY 18-19
RGTPP			
Non Tariff Income	0.80	0.84	0.88

A5: NET FIXED CHARGES

1.6 The net fixed charges is computed for FY 2016-17, FY 2017-18 and FY 2018-19 in the table below:

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

Particulars	FY 16-17	FY 17-18	FY 18-19
Fixed Charge			
O & M Expenses	21.62	22.88	24.22
Depreciation	38.38	38.45	38.45
Interest on Term Loans & Fin. Charges + Interest on Transitional Loan	55.37	51.32	47.09
Interest on Working Capital Loans	8.85	9.16	8.68
Recovery of ARR & Tariff Petition Fees	0.08	0.08	0.08
ROE	23.12	23.18	23.18
Tax on ROE	0.00	0.00	0.00
Insurance Charges	0.43	0.45	0.47
Total Fixed Charge	147.84	145.52	142.17
Less: Non-Tariff Income	0.80	0.84	0.88
Net Fixed Charge	147.04	144.68	141.29

A6: VARIABLE CHARGES

- 1.7 RVUN has computed the SHR 2156.23 kCal/ kWh (2798.25X30%+1881.08X70%) considering the operation hours of 30% for open cycle and 70 % for combined cycle for RGTPS 160 MW. Auxiliary consumption has been taken 2.40% as considering the ratio of 30% for open cycle and 70 % for combined cycle.
- 1.8 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 July 17-Sep 17 as per Commission's formats. For FY 2018-19, GCV of Natural Gas has been considered as 8767 kCal/SCM for RGTPS stage - 3 (160 MW) and the price of Natural Gas has been taken as Rs. 11.56/- per Scm for 160 MW.
- 1.9 The overall estimated figures of variable Cost for the period under consideration, are summarised in Table below:

Table 11: Variable Cost (Rs. in Crores)

Particular	FY 16-17	FY 17-18	FY 17-18
Total Capacity	160.00	160	160
Availability	69.57%	76.16%	70.00%
PLF	69.57%	76.16%	70.00%
Gross Generation	975.13	1067.46	981.12
Auxiliary Energy Consumption	4.00	3.23	2.40
Auxiliary Energy Consumption	38.98	34.52	23.55
Net Generation	936.15	1032.94	957.57
Heat Rate	2239.00	2156.23	2156.23

Fuel Parameters (for each primary and secondary fuel)			
Gross Calorific Value			
Fuel - 1 (Natural Gas)	8855	8767	8767
Landed Fuel Price per unit			
Fuel - 1 (Natural Gas)	11.05	11.56	11.56
Specific Fuel Consumption			
Fuel - 1 (Natural Gas)	0.25	0.25	0.25
Total Fuel Consumption			
Fuel - 1 (Natural Gas)	246552509	263151820	241314379
Heat Content (each fuel separately)			
Fuel - 1 (Natural Gas)	2183316	2306962	2115520
Total Fuel Cost			
Fuel 1 (Natural Gas) (2.2.1 x 3.2.1)	272.45	304.23	278.98
Total Cost	272.45	304.23	278.98
Rs. Per unit /Sent Out	2.910	2.945	2.913

A7: ESTIMATED ARR FOR RGTPP

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

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

Particulars	FY 16-17	FY 17-18	FY 18-19
Capacity (Fixed Charges)	147.04	144.68	141.29
Variable Cost	272.45	304.23	278.98
Aggregate Revenue Requirement	419.49	448.91	420.27

A8: RGTPP ESTIMATED TARIFF

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

Table 13 RGTPP ESTIMATED TARIFF

Particulars	FY 16-17	FY 17-18	FY 18-19
Ex-Bus Generation (MU)	936.15	1032.94	957.57
Capacity(fixed) Charges	147.04	144.68	141.29
Variable Cost	272.45	304.23	278.98
Rate of Fixed Charge(Rs/kWh)	1.571	1.401	1.475
Rate of Variable Charge(Rs/kWh)	2.910	2.945	2.913
Rate of Sale of Energy (Rs/kWh)	4.481	4.346	4.389

A9: RESPONDENTS:-

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

A10: PRAYER

1.13 RVUN humbly requests the Hon'ble Commission to:

- ◆ Approval of ARR & Tariff for FY-2018-19.
- ◆ To allow adhoc tariff w.e.f. 1.4.18 for FY 2018-19 till final tariff order is issued as proposed in the petition.
- ◆ To condone any inadvertent omissions/errors/rounding off differences/shortcomings and permit the Petitioner to add/alter this filing and make further submissions as may be required by the Hon'ble Commission; and
- ◆ And pass such other further orders as are deemed fit and proper in the facts and circumstances of the case

(Y.K.Upadhyay)
Chief Accounts Officer (IA&C)
RVUN, Jaipur.

(A.K.Saxena)
Addl. 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 :

RGTPP Stage-III

S.No.	Particulars	FY 2016-17	FY 2017-18 April to Sep	FY 2017-18 Oct to March 18	FY 2018-19
		Actual	Actual	Estimated	Estimated
1	2	6	7	8	
1	Capacity (Fixed) Charge				
1.1	Depreciation	38.38	19.22	19.22	38.45
1.2	Interest on term Loan & Transitional Loan	55.37	25.66	25.66	47.09
1.3	Return on Equity	23.12	11.59	11.59	23.18
1.4	Interest on Working Capital	8.85	4.84	4.32	8.68
1.5	O & M Expenses	21.62	11.44	11.44	24.22
1.6	Insurance Charges	0.43	0.23	0.23	0.47
	Recovery of ARR and Tariff Petition Fee	0.08	0.04	0.04	0.08
1.6	Less: Non-Tariff income	0.80	0.42	0.42	0.88
	Total (1)- Capacity (Fixed Charges)	147.04	72.60	72.08	141.29
2	Total- Energy (variable) charges	272.45	165.12	139.11	278.98
3	Units sold to Discoms (MU)	936.15	555.46	477.47	957.57
4	Rate of Fixed Charges. (1/3)	1.571	1.307	1.510	1.475
5	Rate of Variable Charges.				
5.1	Rate of Energy Charge from Primary Fuel (REC) _p				
	(i) Natural Gas	2.910	2.973	2.913	2.913
	(ii) Imported Coal	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	0.000	0.000	0.000	0.000
5.3	Total-(2) Rate of Energy Charge ex-bus(REC) ^{3A,3B,3C}	4.481	4.280	4.423	4.389

Form G 1.2

Aggregate Revenue Requirement

Name of the Petitioner

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.

Name of the Power Station/Unit:

RGTPP 160 Power Project

(Rs. Crore)

S.No.	Particulars	Reference Form	FY 2016-17	FY 2017-18 April to Sep	FY 2017-18 Oct to March 18	FY 2018-19	Remarks
			Actual	Actual	Estimated	Estimated	
1	2	3	7		8		9
A	Receipts						
1	Revenue from Sale of Power (Tariff income)	3.1	419.49	-0.42	211.19	420.27	
2	Non Tariff income	3.2	0.80	0.42	0.42	0.88	
3	Revenue Subsidies, Grants & Subvention from State Govt.						
	Total- (A)		420.29		211.61	421.15	
B	Expenditure						
1	Variable Costs, including Fuel Cost	5.3	272.45	165.12	139.11	278.98	
2	Depreciation	6.1	38.38	19.22	19.22	38.45	
3	Interest on term Loan & Finance charges	6.2	55.37	25.66	25.66	47.09	
4	Return on Equity	6.9	23.12	11.59	11.59	23.18	
6	Interest on Working Capital	6.11	8.85	4.84	4.32	8.68	
7	O & M Expenses	4.1	21.62	11.44	11.44	24.22	
8	Insurance Charges	6.12	0.43	0.23	0.23	0.47	
9	Recovery of ARR and Tariff Petition Fee		0.08	0.04	0.04	0.08	
C	Total- (B) Expenditure		420.29	238.14	211.61	421.15	
D	A.R.R. (C-A.2)		419.49	237.72	211.19	420.27	

Plant Characteristics

Name of the Petitioner

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

Name of the Power Station/Unit:

RGTPP Combined Cycle Power Project

Basic characteristics of the plant¹	Two gas turbine generator, One Steam Station						
Special Features of the Plant	Intake Well system at Chambal River about 10 KM from Plant						
Site Specific Features²							
Special Technological Features³	Frame 9E GT, Mark - VI control of GT						
Environmental Regulation related features⁴	SO x / NO x control at exhaust of GT # 1 & 2						
	Chemical treatment of water before drain out of the plant						
Any other special features							
Fuel Details⁵	Primary Fuel			Secondary Fuel		Alternate Fuels	
	Gas					Neptha/ HSD/ Lignite	
Details	Unit number						
	1	2	3	4	5	6	& so on
	GT # 1	ST # 2	GT+STG				
Installed Capacity (IC)	110MW	50MW	160 MW				
Date of Commercial Operation (COD)	06.12.2013	07.06.2014	07.06.2014				
Design Heat Rate	2665kcal/ kwh		1791.50kcal/ kwh				
Type of cooling system ⁶	Closed Circuit System						
Type of Boiler Feed Pump ⁷	NA	NA	Motor Driven				
Pressure (kg/ cm ²)	NA	NA	75.25				
Temperature 0C							
-At Superheater Outlet	NA	NA	514+/- 5				
-At Reheater Outlet	NA	NA	NA				
Turbine Cycle heat Rate(Kcal/ Kwh)							
Boiler Efficiency (%)							
Guaranteed Design Heat rate (kCal/kWh)							
Conditions on which guaranteed							
% MCR							
% Makeup	NA	NA	0				
Design Fuel	Gas (Focus)	Gas (Focus)	Exhaust of GT # 1 & 2				
Design cooling water Temperature			33 Deg C				
Back Pressure			0.104 ata				

Form G 2.2
Operational Parameters - Generation

Name of the Petitioner

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.

Name of the Station/Unit:

RGTPP 160 MW Power Project

S. No.	Particulars	Units	FY 2016-17	FY 2017-18 April to Sep	FY 2017-18 Oct to March 18	FY 2018-19	Remarks
			Actual	Actual	Estimated	Estimated	
1	2	3	7		8		9
2	Operational Parameters - Thermal						
2.1	Total Capacity	MW	160.00	160.00	160.00	160.00	
2.2	Availability	%	69.57%	82.29%	70.00%	70.00%	
2.3	Plant Load Factor	%	69.57%	82.29%	70.00%	70.00%	
2.4	Gross Generation	MU	975.13	578.24	489.22	981.12	
2.5	Auxiliary Energy Consumption	%	4.00	3.94	2.40	2.40	
2.6	Auxiliary Energy Consumption	MU	38.98	22.78	11.74	23.55	
2.7	Net Generation	MU	936.15	555.46	477.47	957.57	
2.6	Heat Rate	Kcal/ Kwh)	2239.00	2165.37	2156.23	2156.23	

Year 2016-17

RG TPP Stage III

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/k Wh)	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		374.46	40.0%	58.8152082	109.0		167.80	448.10	
(b)	AVVNL		262.12	28.0%	41.1706458	76.3		117.46	448.10	
(c)	JDVVNL		299.57	32.0%	47.0521666	87.2		134.24	448.10	
2	Other recoveries									
3	Gross Revenue From Sale of Power				147.038021	272.45				
4	less: i) State Levies Payable to Govt.									
5	Less. : ii) Revenue during trial runs (capitalised)									
6	Net revenue		936.15		147.04	272.45		419.49		

Year 2017-18

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/k Wh)	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		413.17	40.0%	57.873126	121.7		179.56	434.60	
(b)	AVVNL		289.22	28.0%	40.5111882	85.2		125.70	434.60	
(c)	JDVVNL		330.54	32.0%	46.2985008	97.4		143.65	434.60	
2	Other recoveries									
3	Gross Revenue From Sale of Power				144.682815	304.23				
4	less: i) State Levies Payable to Govt.									
5	Less. : ii) Revenue during trial runs (capitalised)									
6	Net revenue		1032.94		144.68	304.23		448.91		

Year 2018-19

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/k Wh)	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		413.17	40.0%	56.5149207	111.6		168.11	406.87	
(b)	AVVNL		289.22	28.0%	39.5604445	78.1		117.68	406.87	
(c)	JDVVNL		330.54	32.0%	45.2119366	89.3		134.49	406.87	
2	Other recoveries									
3	Gross Revenue From Sale of Power				141.287302	278.98				
4	less: i) State Levies Payable to Govt.									
5	Less. : ii) Revenue during trial runs (capitalised)									
6	Net revenue		957.57		141.29	278.98		420.27		

Form G 3.2
NON-TARIFF INCOME

Name of the Petitioner

RVUN

Name of the Power Station/ Unit:

RGTPP Stage III

Rs. Crore

S.No	Particulars	FY 2016-17	FY 2017-18 April to Sep	FY 2017-18 Oct to March 18	FY 2018-19	Remarks
		Actual	Actual	Estimated	Estimated	
1	2	6		7	7	8
	Non-tariff income					
i.	Intt on Govt. Subsidy	0.00	0.00	0.00	0.00	
ii.	Conveyance Advance	0.00	0.00	0.00	0.00	
iii.	House Building Advance	0.00	0.00	0.00	0.00	
iv.	Income from F.D.R. with Banks	0.00	0.00	0.00	0.00	
v.	Sale of scrap	0.00	0.00	0.00	0.00	
vi.	MISCELLANEOUS RECEIPTS	0.80	0.42	0.42	0.88	
	Total non-tariff income	0.80	0.42	0.42	0.88	

REVENUE SUBSIDIES & GRANTS

Name of the Petitioner:

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.

Name of the Power Station/Unit :

RGTPP 160 MW Power Project

S. No.	Particulars	FY 2016-17 to FY 2018-19					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	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 :

RGTPP 160 MW Power Project

Rs. Crore

S. No.	Particulars	FY 2016-17 to FY 2018-19					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				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:

RVUN
RGTPP Stage-III

(Rs. Crore)

S.No.	Particulars	FY 2016-17	FY 2017-18 April to Sep	FY 2017-18 Oct to March 18	FY 2018-19
		Actual	Actual	Estimated	Estimated
1	2	6		7	7
1	O&M Expense norms (Rs. per MW)	0.14	0.14	0.14	0.15
2	Total Capacity in MW	160.00	160.00	160.00	160.00
3	O&M expense	21.62	11.44	11.44	24.22
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	21.62	11.44	11.44	24.22

Form G 5.3

Energy Charges for Thermal Generation

Name of the Petitioner:

Name of the Power Station/Unit:

S.No.	Particulars	Units	FY 2016-17	FY 2017-18 April to Sep	FY 2017-18 Oct to March 18	FY 2018-19	Remarks
			Actual	Actual	Estimated	Estimated	
1	2	3	7	8	9		10
1	Operational Parameters						
1.1	Total Capacity	MW	160.00	160.00	160.00	160.00	
1.2	Availability	%	69.57%	82.29%	70.00%	70.00%	
1.3	PLF	%	69.57%	82.29%	70.00%	70.00%	
1.4	Gross Generation	MU	975.13	578.24	489.22	981.12	
1.5	Auxiliary Energy Consumption	%	4.00	3.94	2.40	2.40	
1.6	Auxiliary Energy Consumption	MU	38.98	22.78	11.74	23.55	
1.7	Net Generation	MU	936.15	555.46	477.47	957.57	
1.8	Heat Rate	kcal/kWh	2239.00	2165.37	2156.23	2156.23	
2	Fuel Parameters (for each primary and secondary fuel)						
2.1	Gross Calorific Value						
2.1.1	Fuel - 1 (Natural Gas)	kCal/ SCM	8855.38	8766.66	8766.66	8766.66	
2.2	Landed Fuel Price per unit (Please specify the fuel)						
2.2.1	Fuel - 1 (Natural Gas)	Rs/ SCM	11.05	11.56	11.56	11.56	
3	Fuel Consumption and Heat Contribution (for each fuel)						
3.1	Specific Fuel Consumption						
3.1.1	Fuel - 1 (Natural Gas)	SCM/ kwh	0.25	0.25	0.25	0.25	
3.2	Total Fuel Consumption						
3.2.1	Fuel - 1 (Natural Gas)	SCM	246552509.15	142825198.15	120326621.70	241314378.67	
3.3	Heat Content (each fuel separately)						
3.3.1	Fuel 1 (2.1.1 x 3.1.1)	Million kcal	2183316.07	1252099.52	1054862.22	2115520.38	
	Total Heat Content						
4	Total Fuel Cost						
4.1.1	Fuel 1 (Natural Gas) (2.2.1 x 3.2.1)	Rs Crore	272.45	165.12	139.11	278.98	
	Total Fuel Cost	Rs Crore	272.45	165.12	139.11	278.98	
5	Details of limestone consumption (Applicable for Lignite based generating stations)						
6	Other Charges and Adjustments						
7	Total Cost (4+5+6)	Rs Crore	272.45	165.12	139.11	278.98	
8	Cost of Generation per unit (at Generation Terminal) (7/1.4)	Rs/kWh	2.79	2.86	2.84	2.84	
9	Energy Charge per unit (ex-bus) (7/1.7)						
9.1.1	Fuel - 1 (Natural Gas)	Rs/kWh	2.91	2.97	2.91	2.91	
	Total---(9)	Rs/kWh	2.910	2.973	2.913	2.913	

F 6.1
(Figures in Rs Crore)

Year 2016-17

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	0	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.000	0.00	0.00
1A	Building & Civil works of Power plant	3.34	49.77	2.91	0.00	52.682	2.747	1.71	0.00	4.458	47.02	48.22
2	Hydraulic works	5.28	20.96	0.00	0.00	20.960	2.137	1.11	0.00	3.244	18.82	17.72
3	Other Civil works	3.34	0.07	0.07	0.00	0.142	0.005	0.00	0.00	0.008	0.07	0.13
4	Plant & machinery	5.28	672.90	0.94	0.00	673.837	69.104	35.55	0.00	104.658	603.79	569.18
5	Lines and Cable Networks	5.28	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.000	0.00	0.00
6	Vehicles	9.5	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.000	0.00	0.00
7	Furniture & fixtures	6.33	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.000	0.00	0.00
8	Office Equipments	6.33	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.000	0.00	0.00
	Total (1) to (10)		743.70	3.92	0.00	747.62	73.99	38.38	0.00	112.37	669.71	635.25

Year 2017-18

(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
			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	0	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.000	0.00	0.00
1A	Building & Civil works of Power plant	3.34	52.68	0.00	0.00	52.682	4.458	1.76	0.00	6.218	48.22	46.46
2	Hydraulic works	5.28	20.96	0.00	0.00	20.960	3.244	1.11	0.00	4.351	16.61	16.61
3	Other Civil works	3.34	0.14	0.00	0.00	0.142	0.008	0.00	0.00	0.013	0.13	0.13
4	Plant & machinery	5.28	673.84	0.00	0.00	673.837	104.658	35.58	0.00	140.236	569.18	533.60
5	Lines and Cable Networks	5.28	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.000	0.00	0.00
6	Vehicles	9.5	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.000	0.00	0.00
7	Furniture & fixtures	6.33	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.000	0.00	0.00
8	Office Equipments	6.33	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.000	0.00	0.00
	Total (1) to (10)		747.62	0.00	0.00	747.62	112.37	38.45	0.00	150.82	635.25	596.80

Year 2018-19

(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
			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	3.34	52.68	0.00	0.00	52.682	6.218	1.76	0.00	7.978	46.46	44.70
1A	Building & Civil works of Power plant	5.28	20.96	0.00	0.00	20.960	4.351	1.11	0.00	5.457	16.61	15.50
2	Hydraulic works	3.34	0.14	0.00	0.00	0.142	0.013	0.00	0.00	0.018	0.13	0.12
3	Other Civil works	5.28	673.84	0.00	0.00	673.837	140.236	35.58	0.00	175.815	533.60	498.02
4	Plant & machinery	5.28	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.000	0.00	0.00
5	Lines and Cable Networks	9.5	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.000	0.00	0.00
6	Vehicles	6.33	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.000	0.00	0.00
7	Furniture & fixtures	6.33	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.000	0.00	0.00
8	Office Equipments	0	0.00	0.00	0.00	0.000	0.000	0.00	0.00	0.000	0.00	0.00
	Total (1) to (10)		747.62	0.00	0.00	747.62	150.82	38.45	0.00	189.27	596.80	558.35

Form G 6.2
LOAN REPAYMENT & INTREST LIABILITY

Name of the Petitioner
Name of the Power Station :

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.
RGTPP 160MW

Name 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	Financial charges	Total interest & finance	Less: Interest charges	Net interest & finance	Loan swapped during the Year			
						Fixed	Floating								Domestic loan	Foreign loan	old Interest rate	New Interest rate
						6	7								15	16	17	18
1	Term Loan + Transitional Loan	Indian	520.97	3.14	38.38	11.00%		485.73	11.00%	55.37	0.00	55.37	0.00	55.37	Nil	Nil	Nil	Nil
	Total (for Station)		520.97	3.14	38.38			485.73		55.37	0.00	55.37	0.00	55.37	Nil	Nil	Nil	Nil

S. No.	Source (loan)	Currency	Opening Balance	Anticipated Receipts	Anticipated Repayment	Interest rate		Closing Balance	Average Rate of Interest#	Liability of Interest during the	Financial charges	Total interest & finance	Less: Interest charges	Net interest & finance	Loan swapped during the Year			
						Fixed	Floating								Domestic loan	Foreign loan	old Interest rate	New Interest rate
						6	7								15	16	17	18
1	Term Loan + Transitional Loan	Indian	485.73	0.00	38.45	11.00%		447.28	11.00%	51.32	0.00	51.32	0.00	51.32	Nil	Nil	Nil	Nil
	Total (for Station)		485.73	0.00	38.45			447.28		51.32	0.00	51.32	0.00	51.32	Nil	Nil	Nil	Nil

S. No.	Source (loan)	Currency	Opening Balance	Anticipated Receipts	Anticipated Repayment	Interest rate		Closing Balance	Average Rate of Interest#	Liability of Interest during the	Financial charges	Total interest & finance	Less: Interest charges	Net interest & finance	Loan swapped during the Year			
						Fixed	Floating								Domestic loan	Foreign loan	old Interest rate	New Interest rate
						6	7								15	16	17	18
1	Term Loan + Transitional Loan	Indian	447.28	0.00	38.45	11.00%		408.83	11.00%	47.09	0.00	47.09	0.00	47.09	Nil	Nil	Nil	Nil
	Total (for Station)		447.28	0.00	38.45			408.83		47.09	0.00	47.09	0.00	47.09	Nil	Nil	Nil	Nil

Form G 6.3

Details of Project Specific Loans

Name of the Petitioner

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.

Name of the Power Station

RGTPP 160 MW Power Project

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	FY 2013-14				FY 2014-15				FY 2015-16				FY 2016-17				FY 2017-18			
			(Actuals/audited)				(Actuals/audited)				(Actuals/audited)				(Anticipated)				(Anticipated)			
			Cost Approved by	Interest	Total	Date of commissioning	Cost	Interest	Total	Date of commissioning	Cost	Interest	Total	Date of commissioning	Cost	Interest	Total	Date of commissioning	Cost	Interest	Total	Date of commissioning
1	2	3	4	5	9	10	11	12	16	17	18	19	23	24	25	26	30	31	32	33	37	38
1	Land & land rights	10.1 XX	0.000			06.12.2013	0.00			07.06.2014	0.00				0.00				0.00			
2	Building & Civil works of Power plant	10.2 XX	23.590			06.12.2013	37.40			07.06.2014	12.37				2.91				0.00			
3	Hydraulic works	10.3 XX	11.050			06.12.2013	20.96			07.06.2014	0.00				0.00				0.00			
4	Other Civil works	10.4 XX	0.040			06.12.2013	0.07			07.06.2014	0.00				0.07				0.00			
5	Plant & machinery	10.5 XX	379.960			06.12.2013	655.54			07.06.2014	17.35				0.94				0.00			
6	Lines and Cable Networks	10.6 XX	0.000			06.12.2013	0.00			07.06.2014	0.00				0.00				0.00			
7	Vehicles	10.7 XX	0.000			06.12.2013	0.00			07.06.2014	0.00				0.00				0.00			
8	Furniture & fixtures	10.8 XX	0.000			06.12.2013	0.00			07.06.2014	0.00				0.00				0.00			
9	Office Equipments	10.9 XX	0.000			06.12.2013	0.00			07.06.2014	0.00				0.00				0.00			
10	Capital spares	10.10 XX	0.000			06.12.2013	0.00			07.06.2014	0.00				0.00				0.00			
	Total		414.64				713.98				29.72				3.92				0.00			

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 : **RGTPP 160 MW Power Project**
 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 theCapital 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)							
<u>Schedule of Commissioning</u>							
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

Form G 6.6

Name of the Petitioner:
Name of the Power Station :

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.
RG TPP 160 MW Power Project

S.No.	Break Down	Cost in Rs. Crores			Variation (Rs. Cr.)	Reasons for Variation	Rs. Crores. 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						
9.1	Mechanical BOP						
9.1.1	Coal handling system / fuel handling system and storage						
9.1.2	Ash handling system						
9.1.3	CW System						
9.1.4	DM Plant						
9.1.5	Raw water system						
9.1.6	Effluent treatment Plant						
9.1.7	Station Piping System						
9.1.8	Fire Fighting System						
9.1.9	Compressed Air System						
9.1.10	Air Conditioning and Ventilation System						
9.1.11	Misc. items including EOT cranes, hoist and elevators etc.						
9.1.12	Tax, Duties, F&I						
9.1.13	Spares						
9.2	Electrical BOP						
9.2.1	Power Transformers						
9.2.2	Switchyard						
9.2.3	Bus Duct						
9.2.4	HT Switchgear						
9.2.5	LT Switchgear						
9.2.6	DC Power System						
9.2.7	Power and Control Cables						
9.2.8	Control and Relay Panels						
9.2.9	Station Lighting						
9.2.10	DG Set						
9.2.11	Electrical equipment erection, cabling and grounding						
9.2.12	Other Misc. items						
9.2.13	Taxes, Duties and F&I						
9.2.14	ETC and spares						
9.3	Total BOP Civil Works						
9.3.1	Main Power house building						
9.3.2	Plant water system						
9.3.3	Chimney						
9.3.4	Permanent Township						
9.3.5	Ash dyke						
9.3.6	Misc. plant buildings						
9.3.7	Temp. sheds						
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						
16.1	Development Expenses						
16.2	Legal Expenses						
16.3	Establishment/ Construction supervision						
16.4	Consultancy and Engineering						
16.5	Audit and Account						
16.6	Contingency						
16.7	Sub-total of Item 16						
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						

N/A

Break-up of Construction / Supply / Service packages

Name of the Petitioner :
Name of the Power Station :

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.
RGTPP 160 MW Power Project

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/ Deptamentally/ 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																	
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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 StationRajasthan Rajya Vidhyut Utpadan Nigam Ltd.
RGTPP 160 MW Power Project

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												
	1.1.1 Foreign Loan 1												
	Draw down Amount												
	IDC												
	Financing charges												
	1.1.2 Foreign Loan 2												
	Draw down Amount												
	IDC												
	Financing charges												
	1.1.3 Foreign Loan 3												
	Draw down Amount												
	IDC												
	Financing charges												
	1.1.4 -												
	-												
	-												
	1.1 Total Foreign Loans												
	Draw down Amount												
	IDC												
	Financing charges												
	1.2 Indian Loans												
	1.2.1 Indian Loan 1												
	Draw down Amount												
	IDC												
	Financing charges												
	1.2.2 Indian Loan 2												
	Draw down Amount												
	IDC												
	Financing charges												
	1.2.3 Indian Loan 3												
	Draw down Amount												
	IDC												
	Financing charges												
	1.2.4 -												
	-												
	-												
	1.2 Total Indian Loans												
	Draw down Amount												
	IDC												
	Financing charges												
	1 Total of Loans drawn												
	IDC												
	Financing charges												
	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: Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.
Name of the Power Station : RGTPP 160 MW Power Project

Rs. Crore

S.No.	Particulars	Reference	FY 2016-17	FY 2017-18 April to Sep	FY 2017-18 Oct to March 18	FY 2018-19	Remarks
			Actual		Estimated	Estimated	
1	2	3	7		8		9
1	Equity at the beginning of the year		148.74	149.52	149.52	149.52	
2	Capitalisation		3.92	0.00	0.00	0.00	
3	Equity portion of capitalisation		0.78	0.00	0.00	0.00	
4	Equity at the end of the year		149.52	149.52	149.52	149.52	
	Return Computation						
5	Return on Equity at the beginning of the year	5% for FY 15-16 and 15.50 % for FY 16-17 to 18-19	23.05	11.59	11.59	23.18	
6	Return on Equity portion of capitalisation (on pro-rata basis)	5% for FY 15-16 and 15.50 % for FY 16-17 to 18-19	0.06	0.00	0.00	0.00	
7	Total Return on Equity	(5)+(6)	23.12	11.59	11.59	23.18	

Form G 6.10

Statement of Additional Capitalisation after COD and Details for Financing

Name of the Petitioner: Rajasthan Raja Vidhyut Utpadan Nigam Ltd.
 Name of the Power Station: RGTPP 160 MW Power Project
 COD: _____

(Rs. Crore)

S.No.	Work/Equipment added after COD up to Cut off Date / Beyond Cut off Date	Amount Capitalised / Proposed to be capitalised FY 2013-14	Amount Capitalised / Proposed to be capitalised FY 2014-15	Amount Capitalised / Proposed to be capitalised FY 2015-16	Amount Capitalised / Proposed to be capitalised FY 2016-17	Amount Capitalised / Proposed to be capitalised FY 2017-18	Amount Capitalised / Proposed to be capitalised FY 2017-18	Regulations under which such additional capitalisation has been claimed	Source of Finance					Admitted Cost ¹	
									Loan 1	Loan 2 and so on	Total Loan	Equity	Internal Sources or Others (mention details)		
1	Land & land rights	0.00	0.00	0.00	0.00	0.00	0.00								
2	Building & Civil works of Power plant	23.59	37.40	12.37	2.91	0.00	0.00								
3	Hydraulic works	11.05	20.96	0.00	0.00	0.00	0.00								
4	Other Civil works	0.04	0.07	0.00	0.07	0.00	0.00								
5	Plant & machinery	379.96	655.54	17.35	0.94	0.00	0.00								
6	Lines and Cable Networks	0.00	0.00	0.00	0.00	0.00	0.00								
7	Vehicles	0.00	0.00	0.00	0.00	0.00	0.00								
8	Furniture & fixtures	0.00	0.00	0.00	0.00	0.00	0.00								
9	Office Equipments	0.00	0.00	0.00	0.00	0.00	0.00								
Total		414.64	713.98	29.72	3.92	0.00	0.00								

Form G 6.11

Interest on Working Capital

Name of the Petitioner

Name of the Power Station

Rs. Crore

S. No.	Particulars		FY 2016-17	FY 2017-18 April to Sep	FY 2017-18 Oct to March 18	FY 2018-19	Remarks
			Actual	Actual	Estimated	Estimated	
1	2		6		7		8
1	Coal Cost (Non pit head)	1½Month	NA	NA	NA	NA	
2	Coal Cost (Pit head)	Half month	NA	NA	NA	NA	
3	Cost of Gas	Half month	11.35	6.88	5.80	11.62	
4	Sec.Fuel Oil	Two month	NA	NA	NA	NA	
5	Liquid Fuel Stock	Half month	NA	NA	NA	NA	
6	O & M expenses	One month	1.80	0.95	0.95	2.02	
	Maintenance Spares	30%of O&M	6.49	3.43	3.43	7.27	
	Recievables	1½Month	52.54	29.77	26.45	52.64	
	Total Working Capital		72.18	41.03	36.63	73.55	
	Rate of Interest (as per norms)		12.26%	11.80%	11.80%	11.80%	
	Interest on Working Capital		8.85	4.84	4.32	8.68	

Insurance Expenses

Name of the Petitioner:

Name of the Power Station :

Rs. Crore

S. No.	Particulars	FY 2016-17	FY 2017-18 April to Sep	FY 2017-18 Oct to March 18	FY 2018-19	Remarks
		Actual	Actual	Estimated	Estimated	
1	2	7		8		9
	Insurance Expenses	0.43	0.23	0.23	0.47	
a)	Provision made/ proposed for the year					
b)	Actual insurance expenses incurred	0.43	0.23	0.23	0.47	
c)	Average Net Fixed Assets	652.48	308.01	308.01	577.58	

Tax on R.O.E.

Name of the Petitioner:

RVUN

Name of the Power Station :

RGTPP Stage-III

Rs.

S. No.	Particulars	FY 2016-17	FY 2017-18 April to Sep	FY 2017-18 Oct to March 18	FY 2018-19	Remarks
		Actual	Actual	Estimated	Estimated	
1	2	6		7		8
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)	0.00		0.00	0.00	
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 :

Rs. Crore

S.No.	Particulars	FY 2016-17	FY 2017-18 April to Sep	FY 2017-18 Oct to March 18	FY 2018-19	Remarks
		Actual	Actual	Estimated	Estimated	
1	2	6		7		8
1	Plant load factor	69.57%	82.29%	70.00%	70.00%	
2	Auxiliary consumption %	4.00	3.94	2.40	2.40	
3	Specific fuel consumption					
(I)	coal, kg / kWh					
ii)	gas, SCM / kWh	0.25	0.26	0.26	0.26	
(iii)	oil, ml / kwh	0.00	0.00	0.00	0.00	
(iv)	Limestone kg / kWh					
(v)	any other fuel					
4	Station heat rate, kcal / kwh	2239.00	2165.37	2156.23	2156.23	
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	69.57%	82.29%	70.00%	70.00%	