

**Petition For**  
**Aggregate Revenue Requirement (ARR) and Tariff**  
**For FY 2018-19**  
**For**  
**Dholpur Combined Cycle Thermal Power Project (DCCPP)**

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

<b>Act</b>	The Electricity Act, 2003
<b>Application</b>	This ARR and Tariff Petition for FY 2018-19 for Dholpur Combined Cycle Thermal Power Station of Rajasthan Rajya Vidyut Utpadan Nigam Limited, Jaipur
<b>Auxiliary Consumption (Aux. Con.)</b>	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
<b>Availability</b>	Availability shall have the same meaning as defined in Section 2(7) of the RERC Tariff Regulations 2014.
<b>Distribution Company / Discoms</b>	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).
<b>Gross Calorific Value (GCV)</b>	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.
<b>Regulation</b>	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
<b>State</b>	The State of Rajasthan.
<b>Gross Station Heat Rate</b>	Heat energy input in kCal required to generate one unit (kWh) of electrical energy at generator terminals.
<b>Unit</b>	Unit in relation to a generating station means electric generator, its prime mover and auxiliaries and in relation to a combined cycle thermal power generating station includes combustion turbine – generators, associated waste heat recovery boilers, connected steam turbine-generator and auxiliaries

## ABBREVIATIONS

ARR	Aggregate Revenue Requirement
Ajmer Discom	Ajmer Vidyut Vitran Nigam Limited
CSR	Corporate Social Responsibility
FRP	Financial Restructuring Plan
FY	Financial Year
FY – 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 1<sup>st</sup> 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 DCCPP 330 MW.
- 1.3 RVUN have to file its petition for determination of ARR and Tariff Petition for 2018-19 in accordance with provision of RERC tariff regulations 2014. Accordingly this petition is being submitted for DCCPP (330 MW) for FY 2018-19 before RERC for ARR and tariff determination.

## A2: GENERATION FORECAST

- 1.4 The installed capacity of DCCPP is 330 MW. The estimated figures of Gross generation, PLF & net energy sale to three Discoms from DCCPP 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 DCCPP Station**

Particular	FY 16-17	FY 17-18	FY 18-19
Capacity (MW)	330	330.00	330.00
PLF (%)	3.38%	41.75%	80.00%
Gross generation (MU)	124.85	1,206.98	2,312.64
Aux Cons. (MU)	30.00	49.82	67.07
Aux Cons. (%)	24.03%	4.13%	2.90%
Net Generation (MU)	94.86	1,157.17	2,245.57

- 1.5 The fixed cost elements as detailed hereunder for DCCPP for the FY 2016-17, FY 2017-18 and FY 2018-19 are as below:

### FIXED CHARGES

### A3: DCCPP ANNUAL CAPACITY (FIXED) CHARGES FOR 2018-19

#### Depreciation:-

1.6 For the purpose of computation of depreciation, RVUN has considered approved Capital Cost as per RERC order dated 20.06.2017. Accordingly, the opening GFA of DCCPP has been considered as Rs.1115 Crore. Further, RVUN has incurred additional capitalization of Rs. 0.14 crore, i.e. Rs. 0.02 Crore towards furniture and fixtures and Rs. 0.12 crore towards capital spares.

1.7 Regulation 17(2)(iv) of RERC Tariff Regulations 2014 on additional capitalization provides that any additional works/ services, which have become necessary for efficient and successful operation of a generating station but not included in the original capital cost:

1.8 The details of additional capitalization is as given below:

#### Additional capitalization for FY 2016-17

S.No.	Particulars	Amount	Justification/Remark
1	Furniture & Fixtures	182551	Incurred as per Regulations 17 (2) (iv) of RERC Tariff Regulations 2009.
3	Capital (initial ) Spares	1243012	It is also the part of Original scope of work (Initial spares) done by BHEL against order no. (1132/17.03.2008 & 4072/05.11.08) incurred towards deferred payment of earlier years.
	Total	1425563	

1.9 Accordingly RVUN request the Hon'ble Commission to approve the aforesaid additional capitalization during FY 2016-17.

1.10 Depreciation have been computed using the approved capital cost and the above additions as follows:

**Table 2: Depreciation (Rs. in Crore)**

Station	FY 16-17	FY 17-18	FY 18-19
Depreciation	57.94	57.95	57.95

#### Interest on Loans:-

1.11 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 transitional loans combined has been taken equal to the depreciation figure envisaged for FY 2016-17, FY 2017-18 and 2018-19.

1.12 Estimated figures for interest on term loan, transitional 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
DCCPP			
Interest (Term Loan + Transitional Loan) and finance charges	31.32	23.33	16.53
Total	31.32	23.33	16.53

### Interest on working Capital

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

1.14 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
DCCPP			
Interest on Working Capital	5.72	14.93	23.94

### Operation & Maintenance Expenses

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

1.16 Estimated Figures for the period FY 2016-17, FY 2017-18 and 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
DCCPP			
Operation and Maintenance	20.21	47.20	49.96

### Recovery of ARR & Tariff Petition Fees

1.17 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.

1.18 The ARR & Tariff Petition Fees for FY 2016-17, FY 2017-18 and 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
DCCPP			

Petition Fee	0.17	0.17	0.17
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### Insurance Charges

1.19 RVUN is claiming the insurance charges for DCCPP 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
DCCPP			
Insurance Charges	0.96	1.01	1.06

### Return on Equity (ROE)

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

1.21 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
DCCPP			
ROE	53.79	53.79	53.79

### NON-TARIFF INCOME

1.22 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)

1.23 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
DCCPP			
Non Tariff Income	0.26	0.28	0.29

### A4: DCCPP ESTIMATED CAPACITY CHARGES (FIXED)

1.24 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 DCCPP (Rs. in Crore)**

Particulars	FY 16-17	FY 17-18	FY 18-19
O & M Expenses	20.21	47.20	49.96

Depreciation	57.94	57.95	57.95
Interest on Term Loans & Fin. Charges + Interest on Transitional Loan	31.32	23.33	16.53
Interest on Working Capital Loans	5.72	14.93	23.94
Recovery of ARR & Tariff Petition Fees	0.17	0.17	0.17
ROE	53.79	53.79	53.79
Terminal benefit	1.69	0.00	0.00
Insurance Charges	0.96	1.01	1.06
Total Fixed Charge	171.79	198.37	203.40
Less: Non-Tariff Income	0.26	0.28	0.29
Net Fixed Charge	171.53	198.10	203.11

#### A5: VARIABLE CHARGES

- 5.1. The Gross calorific value and average rate of the gas supply have been calculated on the basis of receipts of previous three months during September, October and November of 2017 as per Commission's formats. For FY 2018-19, GCV of Natural Gas has been considered as 9159.41 KCal/SCM and the price of Natural Gas has been taken as Rs. 18.87 per SCM.
- 5.2. The SHR of DCCPP plant has been considered on the basis that plant will run 95% on combined cycle and 5% in open cycle.  $(1950 \times 0.95 + 2830 \times 0.05)$ .
- 5.3. 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	UNIT	FY 16-17	FY 17-18	FY 18-19
Total Capacity	MW	330	330	330.00
Availability	%	26.47%	20.44%	80.00%
PLF	%	3.38%	41.75%	80.00%
Gross Generation	MU	124.85	1206.98	2312.64
Auxiliary Energy Consumption	%	24.03%	4.13%	2.90%
Auxiliary Energy Consumption	MU	30.00	49.82	67.07
Net Generation	MU	94.86	1157.17	2245.57
Heat Rate	kcal/kWh	2334.08	2017.16	1994.00
Fuel Parameters (for each primary and secondary fuel)				
<b>Gross Calorific Value</b>				
Fuel - 1 (Natural Gas)	kCal/ SCM	9197.63	9159.41	9159.41
<b>Landed Fuel Price per unit)</b>				
Fuel - 1 (Natural Gas)	Rs/ SCM	15.38	18.87	18.87
<b>Specific Fuel Consumption</b>				
Fuel - 1 (Natural Gas)	SCM/ kwh	0.25	0.22	0.22
Total Fuel Consumption				
Fuel - 1 (Natural Gas)	SCM	31683901.00	265811371.39	503461078.97
Heat Content (each fuel separately)				
Fuel - 1 (Natural Gas)	Million kcal	291416.80	2434674.13	4611404.16
Total Fuel Cost				
Fuel 1 (Natural Gas) (2.2.1 x 3.2.1)	Rs Crore	48.73	501.59	950.05
Total Cost	Rs Crore	48.73	501.59	950.05
Rs. Per unit /Sent Out	Per unit	5.137	4.335	4.231

**A6: ESTIMATED ARR FOR DCCPP**

1.25 The recovery of ARR proposed for DCCPP is summarised in table below:

**Table 12: ESTIMATED ARR for DCCPP (Rs. in Crores)**

Particulars	FY 16-17	FY 17-18	FY 18-19
Capacity (Fixed Charges)	171.53	198.10	203.11
Variable Cost	48.73	501.59	950.05
Aggregate Revenue Requirement	220.26	699.69	1153.16

**A7: DCCPP ESTIMATED TARIFF**

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

**Table 13: DCCPP ESTIMATED TARIFF**

Particulars	FY 16-17	FY 17-18	FY 18-19
Ex-Bus Generation (MU)	94.86	1157.17	2245.57
Capacity(fixed) Charges	171.53	198.10	203.11
Variable Cost	48.73	501.59	950.05
Rate of Fixed Charge(Rs/kWh)	18.083	1.712	0.904
Rate of Variable Charge(Rs/kWh)	5.137	4.335	4.231
Rate of Sale of Energy (Rs/kWh)	23.220	6.047	5.135

**A8: FUEL COST ADJUSTMENT**

1.27 As per RERC Tariff Regulations 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.

**A9: RESPONDENTS:-**

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

**A10: PRAYER**

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 (Comml.)

(Ajay Kumar Saxena)  
Addl. Chief Engineer (PPMC&IT)

## Summary of Tariff Proposal

Form G 1.1

Name of the Petitioner

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.

Name of the Power Station /Unit :

Dholpur Combined Cycle Power Project

(Rs. Crore)

S.No.	Particulars	Ref.of Form No	FY 2016-17	FY 2017-18		FY 2018-19	Remark	
			Actual/Audited	Approved by the Commission	Apr-Sep (Actual)	Oct-March (Estimated)		Anticipated
1	2	3	4	5	6	7	8	9
1	<b>Capacity (Fixed) Charge</b>							
1.1	Depreciation	6.1	57.94	57.92	28.98	28.98	57.95	
1.2	Interest on term Loan & Transitional Loan	6.2	31.32	24.63	11.67	11.67	16.53	
1.3	Return on Equity	6.9	53.79	53.79	26.90	26.90	53.79	
1.4	Interest on Working Capital	6.11	5.72	20.27	3.01	11.91	23.94	
1.5	O & M Expenses	4.1	20.21	47.20	23.60	23.60	49.96	
1.6	Insurance Charges	6.12	0.96	0.93	0.50	0.50	1.06	
1.7	terminal benefit	6.13	1.69	0.00	0.00	0.00	0.00	
	Recovery of ARR and Tariff Petition Fee		0.17	0.17	0.08	0.08	0.17	
1.6	Less: Non-Tariff income	3.2	0.26	1.63	0.14	0.14	0.29	
	<b>Total (1)- Capacity (Fixed Charges)</b>		<b>171.53</b>	<b>203.28</b>	<b>94.60</b>	<b>103.50</b>	<b>203.11</b>	
2	<b>Total- Energy (variable ) charges</b>		<b>48.73</b>	<b>769.87</b>	<b>27.87</b>	<b>473.72</b>	<b>950.05</b>	
3	<b>Units sold to Discoms (MU)</b>		<b>94.86</b>	<b>2245.57</b>	<b>37.57</b>	<b>1119.60</b>	<b>2245.57</b>	
4	<b>Rate of Fixed Charges. ( 1/3)</b>		<b>18.083</b>	<b>0.905</b>	<b>25.178</b>	<b>0.924</b>	<b>0.904</b>	
5	<b>Rate of Variable Charges.</b>							
5.1	Rate of Energy Charge from Primary Fuel (REC) <sub>p</sub>	5.1						
	(i) Natural Gas		5.137	3.428	7.419	4.231	4.231	
	(ii) Imported Coal		0.000	0.000	0.000	0.000	0.000	
	(iii) Any Other fuel							
	Total 2.1							
5.2	Rate of Energy Charge from Secondary Fuel (REC) <sub>s</sub>	5.1	0.000	0.000	0.000	0.000	0.000	
5.3	Total-(2) Rate of Energy Charge ex-bus(REC) <sup>3A,3B,3C</sup>	5.1	23.220	4.334	32.597	5.156	5.135	

## Form G 1.2

## Aggregate Revenue Requirement

Name of the Petitioner

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.

Name of the Power Station/Unit:

Dholpur Combined Cycle Power Project

(Rs. Crore)

S.No.	Particulars	Reference Form	FY 2016-17	FY 2017-18		FY 2018-19	Remarks	
			Actual/Audited	Approved by the Commission	Apr-Sep (Actual)	Oct-March (Estimated)		Anticipated
1	2	3	4	5	6	7	8	9
<b>A</b>	<b>Receipts</b>							
1	Revenue from Sale of Power (Tariff income)	3.1	220.26	973.15	122.47	577.22	1153.16	
2	Non Tariff income	3.2	0.26	1.63	0.14	0.14	0.29	
3	Revenue Subsidies, Grants & Subvention from State Govt.							
	<b>Total- (A)</b>		<b>220.52</b>	<b>974.78</b>	<b>122.61</b>	<b>577.36</b>	<b>1153.45</b>	
<b>B</b>	<b>Expenditure</b>							
1	Variable Costs, including Fuel Cost	5.1	48.73	769.87	27.87	473.72	950.05	
2	Depreciation	6.1	57.94	57.92	28.98	28.98	57.95	
3	Interest on term Loan & Finance charges	6.2	31.32	24.63	11.67	11.67	16.53	
4	Return on Equity	6.9	53.79	53.79	26.90	26.90	53.79	
5	Tax on ROE	6.13	1.69	0.00	0.00	0.00	0.00	
6	Interest on Working Capital	6.11	5.72	20.27	3.01	11.91	23.94	
7	O & M Expenses	4.1	20.21	47.20	23.60	23.60	49.96	
8	Insurance Charges	6.12	0.96	0.93	0.50	0.50	1.06	
9	Recovery of ARR and Tariff Petition Fee		0.17	0.17	0.08	0.08	0.17	
10	Prior Period Expenses		0.00	0.00	0.00	0.00	0.00	
<b>C</b>	<b>Total- (B) Expenditure</b>		<b>220.52</b>	<b>974.78</b>	<b>122.61</b>	<b>577.36</b>	<b>1153.45</b>	
<b>D</b>	<b>A.R.R. (C-A.2)</b>		<b>220.26</b>	<b>973.15</b>	<b>122.47</b>	<b>577.22</b>	<b>1153.16</b>	

**Plant Characteristics**

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

Rajasthan Rajya Vidut Utpadan Nigam Limited,Jaipur (Raj.)
Dholpur Combined Cycle Power Project, Dholpur

<b>Basic characteristics of the plant<sup>1</sup></b>	Two gas turbine generator, One Steam Station						
<b>Special Features of the Plant</b>	Intake Well system at Chambal River about 10 KM from Plant						
<b>Site Specific Features<sup>2</sup></b>							
<b>Special Technological Features<sup>3</sup></b>	Frame 9E GT, Mark - VI control of GT						
<b>Environmental Regulation related features<sup>4</sup></b>	SO x / NO x control at exhaust of GT # 1 & 2						
<b>Any other special features</b>	Chemical treatment of water before drain out of the plant						
<b>Fuel Details<sup>5</sup></b>	Primary Fuel			Secondary Fuel		Alternate Fuels	
	Gas					Neptha/ HSD/ Lignite	
<b>Details</b>	<b>Unit number</b>						
	1	2	3	4	5	6	& so on
	GT # 1	GT # 2	STG				
Installed Capacity (IC)	110 MW	110 MW	110 MW				
Date of Commercial Operation (COD)	01.03.2008						
Type of cooling system <sup>6</sup>	Closed Circuit System						
Type of Boiler Feed Pump <sup>7</sup>	NA	NA	Motor Driven				
Pressure (kg/ cm <sup>2</sup> )	NA	NA	75.25				
Temperature 0C							
-At Superheater Outlet	NA	NA	514+/- 5				
-At Reheater Outlet	NA	NA	NA				
<b>Turbine Cycle heat Rate(Kcal/ Kwh)</b>							
<b>Boiler Efficiency (%)</b>							
<b>Guaranteed Design Heat rate (kCal/kWh)<sup>8</sup></b>							
<b>Conditions on which guaranteed</b>							
% MCR							
% Makeup	NA	NA	0				
Design Fuel	Gas (RLNG)	Gas (RLNG)	Exhaust of GT # 1 & 2				
Design cooling water Temperature			33 Deg C				
Back Pressure			0.104 ata				

<sup>1</sup> 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.

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

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

<sup>4</sup> Environmental regulation related features like FGD, ESP etc.

<sup>5</sup> Coal or natural gas or naphtha or lignite etc.

<sup>6</sup> Closed circuit cooling, once through cooling, sea cooling etc.

<sup>7</sup> Motor driven, Steam turbine driven etc.

<sup>8</sup> 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

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.

Name of the Station/Unit:

Dholpur Combined Cycle Power Project

S. No.	Particulars	Units	FY 2016-17	FY 2017-18			FY 2018-19	Remarks
			Audited/Actual	Approved by the Commission	Apr-Sep (Actual)	Oct-March (Estimated)	Anticipated	
1	2	3	4	5	6	7	8	9
2	<b>Operational Parameters - Thermal</b>							
2.1	Total Capacity	MW	330	330.00	330	330	330	
2.2	Availability	%	26.47%		20.44%	-	80.00%	
2.3	Plant Load Factor	%	3.38%	80.00%	3.71%	80.00%	80.00%	
2.4	Gross Generation	MU	124.853	2312.640	53.830	1153.152	2312.640	
2.5	Auxiliary Energy Consumption	%	24.03%	2.90%	30.20%	2.90%	2.90%	
2.6	Auxiliary Energy Consumption	MU	30.00	67.07	16.26	33.56	67.07	
2.7	Net Generation	MU	94.86	2245.57	37.57	1119.60	2245.57	
2.6	Heat Rate	Kcal/ Kwh	2334.08	1994.00	2513.26	1994.00	1994.00	

## Revenue from Sale of Power

Form G 3.1

Name of the Company  
Name of the Power Station :

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.  
Dholpur Combined Cycle Power Project

Year 2016-17

Rs. Crore										
S.No.	Particulars	Allocatio	Unit Sold	% of	Demand/fi	Energy	Others,	Total	Average'	Existing
1	2	3	4	5	6	7	8	9	10	11
A)	<b>Revenue from sale of Electricity(as per approved tariff)</b>									
1	Dist.Licensee/ trader/ consumers									
(a)	JVVNL		37.94	40.0%	68.6121663	19.5		88.10	2322.03	
(b)	AVVNL		26.56	28.0%	48.0285164	13.6		61.67	2322.03	
(c)	JDVVNL		30.35	32.0%	54.8897331	15.6		70.48	2322.03	
2	Other recoveries									
3	<b>Gross Revenue From Sale of Power</b>				<b>171.530416</b>	<b>48.73</b>				
4	less: i) State Levies Payable to Govt.									
5	Less. : ii) Revenue during trial runs (capitalised)									
6	<b>Net revenue</b>		<b>94.86</b>		<b>171.53</b>	<b>48.73</b>		<b>220.26</b>		<b>0</b>

Year 2017-18

Rs. Crore										
S.No.	Particulars	Allocatio	Unit Sold	% of	Demand/fi	Energy	Others,	Total	Average'	Existing
1	2	3	4	5	6	7	8	9	10	11
A)	<b>Revenue from sale of Electricity(as per approved tariff)</b>									
1	Dist.Licensee/ trader/ consumers									
(a)	JVVNL		462.87	40.0%	79.2384403	200.6		279.88	604.66	433.36
(b)	AVVNL		324.01	28.0%	55.4669082	140.4		195.91	604.66	433.36
(c)	JDVVNL		370.29	32.0%	63.3907522	160.5		223.90	604.66	433.36
2	Other recoveries									
3	<b>Gross Revenue From Sale of Power</b>				<b>198.096101</b>	<b>501.59</b>				
4	less: i) State Levies Payable to Govt.									
5	Less. : ii) Revenue during trial runs (capitalised)									
6	<b>Net revenue</b>		<b>1157.17</b>		<b>198.10</b>	<b>501.59</b>		<b>699.69</b>		

Year 2018-19

Rs. Crore										
S.No.	Particulars	Allocatio	Unit Sold	% of	Demand/fi	Energy	Others,	Total	Average'	Existing
1	2	3	4	5	6	7	8	9	10	11
A)	<b>Revenue from sale of Electricity(as per approved tariff)</b>									
1	Dist.Licensee/ trader/ consumers									
(a)	JVVNL		898.23	40.0%	81.24	380.02		461.26	513.52	433.36
(b)	AVVNL		628.76	28.0%	56.87	266.01		322.88	513.52	433.36
(c)	JDVVNL		718.58	32.0%	64.99	304.02		369.01	513.52	433.36
2	Other recoveries									
3	<b>Gross Revenue From Sale of Power</b>									
4	less: i) State Levies Payable to Govt.									
5	Less. : ii) Revenue during trial runs (capitalised)									
6	<b>Net revenue</b>		<b>2245.57</b>		<b>203.11</b>	<b>950.05</b>	<b>0.00</b>	<b>1153.16</b>		

**Form G 3.2**  
**NON-TARIFF INCOME**

Name of the Petitioner

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.

Name of the Power Station/ Unit:

Dholpur Combined Cycle Power Project

Rs. Crore

S.No	Particulars	FY 2016-17	FY 2017-18		FY 2018-19	Remarks	
		(Actuals/audited)	Approved by the Commission	Apr-Sep (Actual)	Oct-March (Estimated)		(Anticipated)
1	2	3	4	5	6	7	8
	<b>Non-tariff income</b>						
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	0.26	1.63	0.14	0.14	0.29	
	<b>Total non-tariff income</b>	<b>0.26</b>	<b>1.63</b>	<b>0.14</b>	<b>0.14</b>	<b>0.29</b>	

## REVENUE SUBSIDIES &amp; GRANTS

Name of the Petitioner:

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.

Name of the Power Station/Unit :

Dholpur Combined Cycle Power Project

S. No.	Particulars	Previous year (n-1)	Current Year (n)			Ensuing Year (n+1)	Remarks
		(Actuals/audited)	Approved by the Commission	Apr-Sep (Actual)	Estimated for the year	(Anticipated)	
1	2	3	4	5	6	7	8
A)	<b>Revenue Subsidies &amp; Grants</b>	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						
	<b>Total</b>						

## Capital Subsidies and Grants

Name of the Petitioner:

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.

Name of the Power Station/Unit :

Dholpur Combined Cycle Power Project

Rs. Crore

S. No.	Particulars	Previous year	Current Year			Ensuing Year (Anticipated)	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						
	<b>Total</b>						

### Form G 4.1

### O&M Expenses

Name of the Petitioner:

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.

Name of the Station/Unit:

Dholpur Combined Cycle Power Project

(Rs. Crore)

S.No.	Particulars	FY 16-17	FY 17-18		FY 18-19	
		(Actuals/audited)	Approved by the Commission	Apr-Sep (Actual)	Oct-March (Estimated)	(Anticipated)
1	2	3	5	6	7	8
1	O&M Expense norms (Rs. per MW)	0.061	0.143	0.143	0.143	0.1514
2	Total Capacity in MW	330	330	330	330	330
3	O&M expense	20.21	47.20	23.60	23.60	49.96
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	<b><u>Pumping Station No.1 :-</u></b>					
b.1	Power consumption Cost					
b.2	Repair / Maintenance / Employee / other Cost					
b.3	Sub total (b)					
c	<b><u>Pumping Station No.2 :-</u></b>					
	and so on .....					
d	Total (4) Special O&M Expenses					
<b>5</b>	<b>Totsl O&amp;M expenses</b>	<b>20.21</b>	<b>47.20</b>	<b>23.60</b>	<b>23.60</b>	<b>49.96</b>

Form G 5.1  
DCCPP

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

S.No	Month (F.Y. 17-18)	Unit	APRIL	MAY	JUNE	Q. APRIL-JUNE 17	JULY	AUGUST	SEPT.	Q. JULY-SEP.17	Oct.	Nov.	Dec.	Q. OCT-DEC.17
			Natural GAS	Natural GAS	Natural GAS	Natural GAS	Natural GAS	Natural GAS	Natural GAS	Natural GAS	Natural GAS	Natural GAS	Natural GAS	Natural GAS
1	2	3	4	5	6	7	4	5	6	7	8	9	10	11
1	Quantity of GAS in stock at the beginning of the month	(SCM)	0	0	0	0	0	0	0	0	0	0	0	0
2	Quantity of Gas supplied by M/s GAIL & RIL	(SCM)	9758514	13054879	13763324	36576717	11518992.54	15906416.75	17739876.66	45165285.96	25447720.2	25347432.91	22346606.34	73141759.45
3	Adjustment (+/-) in quantity supplied made by Gas Company	(SCM)	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
4	Gas supplied by M/s GAIL (2+3)	(SCM)	9758514	13054879	13763324	36576717	11518992.54	15906416.75	17739876.66	45165285.96	25447720.2	25347432.91	22346606.34	73141759.45
5	Normative Transit & Handling Losses (For coal based Projects)	(SCM)	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
6	Net GAS Supplied (4-5)	(SCM)	9758514	13054879	13763324	36576717	11518992.54	15906416.75	17739876.66	45165285.96	25447720.2	25347432.91	22346606.34	73141759.45
7	Total Gas(Receipts & Opening Stock) (1)+(6)	(SCM)	9758514	13054879	13763324	36576717	11518992.54	15906416.75	17739876.66	45165285.96	25447720.2	25347432.91	22346606.34	73141759.45
8	GAS burnt/consumed	(SCM)	0	0	0	0	0	3510	14807810	14811319.57	19714656	18769718	7947395	46431769
9	GAS in stock at the end of the month	(SCM)	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
10	Value of GAS in stock	(Rs.)	0											
11	Amount charged by M/s GAIL	(Rs.)	0	0	0	0	0	52816.79205	223354140.2	223406957	331866943	372006380	173102963	876976286
12	Adjustment (+/-) in amount charged made by Gas Company	(Rs.)	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
13	Total amount Charged (11+12)	(Rs.)	0	0	0	0	0	52816.79205	223354140.2	223406957	331866943	372006380	173102963	876976286
14	Transportation charges by M/s GAIL	(Rs.)	0	0	0	0	0	4403.8865	18508575.45	18512979.34	27550162	32427230	15206679	75184071
15	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
16	Demurrage Charges, if any	(Rs.)	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
17	Cost of diesel in transporting coal through MGR system, if applicable (For coal based Projects)	(Rs.)	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
18	Total Transportation Charges (14+/-15+16+17)	(Rs.)	0	0	0	0	0	4403.89	18508575.45	18512979.34	27550162	32427230	15206679	75184071
19	Total amount Charged for GAS supplied including Transportation (13+18)	(Rs.)	0	0	0	0	0	57221	241862716	241919936	359417105	404433610	188309642	952160357
20	Average cost of GAS (Opening stock + receipts) (19/7)	(Rs./SCM)	-	-	-	-	-	16.30	16.33	16.33	18.23	21.55	23.69	20.51
21	Cost of GAS in stock at the end of the month (20)x(9)	(Rs.)	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
22	Weighted average NCV of GAS as fired	(kCal/Kg)	0.0000	0.0000	0.0000	0.0000	0	8264.451	8229.424	8229.432	8271.802	8252.375	8249.278	8260.094
23	Weighted average GCV of GAS as fired	(kCal/Kg)	0.0000	0.0000	0.0000	0.0000	0	9168.785	9134.157	9134.165	9178.501	9159.557	9155.301	9166.872

## Form G 5.3

## Energy Charges for Thermal Generation

Name of the Petitioner:

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.

Name of the Power Station/Unit:

Dholpur Combined Cycle Power Project

S.No.	Particulars	Units	FY 2016-17	FY 2017-18			FY 2018-19	Remarks
			April-March (Audited)	Approved by the Commission	Apr-Sep (Actual)	Oct-March (Estimated)	Anticipated	
1	2	3	4	6	7	8	9	10
<b>1</b>	<b>Operational Parameters</b>							
1.1	Total Capacity	MW	330	330.00	330	330	330.00	
1.2	Availability	%	26.47%		20.44%	-	80.00%	
1.3	PLF	%	3.38%	80.00%	3.71%	80.00%	80.00%	
<b>1.4</b>	<b>Gross Generation</b>	<b>MU</b>	<b>124.85</b>	<b>2312.64</b>	<b>53.83</b>	<b>1153.15</b>	<b>2312.64</b>	
1.5	Auxiliary Energy Consumption	%	24%	2.90%	30%	2.90%	2.90%	
1.6	Auxiliary Energy Consumption	MU	30.00	67.07	16.26	33.56	67.07	
<b>1.7</b>	<b>Net Generation</b>	<b>MU</b>	<b>94.86</b>	<b>2245.57</b>	<b>37.57</b>	<b>1119.60</b>	<b>2245.57</b>	
1.8	Heat Rate	kcal/kWh	2334.08	1994	2513.26	1994.000	1994.00	
<b>2</b>	<b>Fuel Parameters (for each primary and secondary fuel)</b>							
<b>2.1</b>	<b>Gross Calorific Value</b>							
2.1.1	Fuel - 1 (Indegineous Coal)	kCal/ SCM	9197.63	9196.45	9159.41	9159.41	9159.41	
<b>2.2</b>	<b>Landed Fuel Price per unit (Please specify the fuel)</b>							
2.2.1	Fuel - 1 (Natural Gas)	Rs/ SCM	15.38	15.99	18.87	18.87	18.87	
<b>3</b>	<b>Fuel Consumption and Heat Contribution (for each fuel)</b>							
3.1	Specific Fuel Consumption							
3.1.1	Fuel - 1 (Natural Gas)	SCM/ kwh	0.25	0.22	0.27	0.22	0.22	
<b>3.2</b>	<b>Total Fuel Consumption</b>							
3.2.1	Fuel - 1 (Natural Gas)	SCM	31683901.00		14770504.62	251040866.78	503461078.97	
<b>3.3</b>	<b>Heat Content (each fuel separately)</b>							
3.3.1	Fuel 1 (2.1.1 x 3.1.1)	Million kcal	291416.80		135289.04	2299385.09	4611404.16	
	Total Heat Content							
<b>4</b>	<b>Total Fuel Cost</b>							
4.1.1	Fuel 1 (Natural Gas) (2.2.1 x 3.2.1)	Rs Crore	48.73	0.00	27.87	473.72	950.05	
	<b>Total Fuel Cost</b>	<b>Rs Crore</b>	<b>48.73</b>	<b>0.00</b>	<b>27.87</b>	<b>473.72</b>	<b>950.05</b>	
<b>5</b>	<b>Details of limestone consumption (Applicable for Lignite based generating stations)</b>							
<b>6</b>	<b>Other Charges and Adjustments</b>		0.00					
<b>7</b>	<b>Total Cost (4+5+6)</b>	<b>Rs Crore</b>	<b>48.73</b>	<b>0.00</b>	<b>27.87</b>	<b>473.72</b>	<b>950.05</b>	
<b>8</b>	<b>Cost of Generation per unit (at Generation Terminal) (7/1.4)</b>	<b>Rs/kWh</b>	<b>3.903</b>	<b>0.000</b>	<b>4.493</b>	<b>4.108</b>	<b>4.108</b>	
<b>9</b>	<b>Energy Charge per unit (ex-bus) (7/1.7)</b>							
9.1.1	Fuel - 1 (Natural Gas)	Rs/kWh	5.137	0.000	6.438	4.231	4.231	
	<b>Total--(9)</b>	<b>Rs/kWh</b>	<b>5.137</b>	<b>0.000</b>	<b>6.438</b>	<b>4.231</b>	<b>4.231</b>	



**Form 6.1**  
**Fixed Assets & Provisions for Depreciation**

Name of the Petitioner **Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.**  
Name of the Power Station : **Dholpur Combined Cycle Power Project**

Year (n+1) (2016-17) (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	Nil	2.47	0.00	0.00	2.475		0.00				
1A	Building & Civil works of Power plant	3.34	39.11	0.00	0.00	39.114		1.31				
2	Hydraulic works	5.28	14.95	0.00	0.00	14.954		0.79				
3	Other Civil works	3.34	2.87	0.00	0.00	2.870		0.10				
4	Plant & machinery	5.28	1011.06	0.00	0.00	1011.063		53.38				
5	Lines and Cable Networks	5.28	2.46	0.00	0.00	2.462		0.13				
6	Vehicles	9.5	0.13	0.00	0.00	0.127		0.01				
7	Furniture & fixtures	6.33	0.83	0.02	0.00	0.851		0.05				
8	Office Equipments	6.33	0.14	0.00	0.00	0.142		0.01				
9	Capital spares	5.28	40.96	0.12	0.00	41.085		2.17				
	<b>Total (1) to (11)</b>		<b>1115.00</b>	<b>0.14</b>	<b>0.00</b>	<b>1115.14</b>	<b>457.10</b>	<b>57.94</b>	<b>0.00</b>	<b>515.04</b>	<b>657.90</b>	<b>600.10</b>

Year (n+1) (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	2.47	0.00	0.00	2.475		0.00				
1A	Building & Civil works of Power plant	3.34	39.11	0.00	0.00	39.114		1.31				
2	Hydraulic works	5.28	14.95	0.00	0.00	14.954		0.79				
3	Other Civil works	3.34	2.87	0.00	0.00	2.870		0.10				
4	Plant & machinery	5.28	1011.06	0.00	0.00	1011.063		53.38				
5	Lines and Cable Networks	5.28	2.46	0.00	0.00	2.462		0.13				
6	Vehicles	9.5	0.13	0.00	0.00	0.127		0.01				
7	Furniture & fixtures	6.33	0.85	0.00	0.00	0.851		0.05				
8	Office Equipments	6.33	0.14	0.00	0.00	0.142		0.01				
9	Capital spares	5.28	41.09	0.00	0.00	41.085		2.17				
	<b>Total (1) to (11)</b>		<b>1115.14</b>	<b>0.00</b>	<b>0.00</b>	<b>1115.14</b>	<b>515.04</b>	<b>57.95</b>	<b>0.00</b>	<b>572.99</b>	<b>600.10</b>	<b>542.15</b>

Year (n+1) (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	0	2.47	0.00	0.00	2.475		0.00				
1A	Building & Civil works of Power plant	3.34	39.11	0.00	0.00	39.114		1.31				
2	Hydraulic works	5.28	14.95	0.00	0.00	14.954		0.79				
3	Other Civil works	3.34	2.87	0.00	0.00	2.870		0.10				
4	Plant & machinery	5.28	1011.06	0.00	0.00	1011.063		53.38				
5	Lines and Cable Networks	5.28	2.46	0.00	0.00	2.462		0.13				
6	Vehicles	9.5	0.13	0.00	0.00	0.127		0.01				
7	Furniture & fixtures	6.33	0.85	0.00	0.00	0.851		0.05				
8	Office Equipments	6.33	0.14	0.00	0.00	0.142		0.01				
9	Capital spares	5.28	41.09	0.00	0.00	41.085		2.17				
	<b>Total (1) to (11)</b>		<b>1115.14</b>	<b>0.00</b>	<b>0.00</b>	<b>1115.14</b>	<b>572.99</b>	<b>57.95</b>	<b>0.00</b>	<b>630.94</b>	<b>542.15</b>	<b>484.20</b>

**Form G 6.2  
LOAN REPAYMENT & INTREST LIABILITY**

Name of the Petitioner  
Name of the Power Station :

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.  
Dholpur Combined Cycle Power Project

Name of the Petitioner  
Name of the Power Station :

s

S. No.	Source (loan)	Curren- cy	Year (2016-17)										Rs. Crore					
			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
1	2	2A	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	Term Loan	Indian	261.44	0.10	57.94			203.59	11.74%	27.30	1.63	28.93	0.00	28.93	Nil	Nil	Nil	Nil
2	Transitional Loan	Indian	24.11	0.00	0.00			24.11	9.90%	2.39	0.00	2.39	0.00	2.39				
	<b>Total (for Station)</b>		<b>285.55</b>	<b>0.10</b>	<b>57.94</b>			<b>227.71</b>		<b>29.69</b>	<b>1.63</b>	<b>31.32</b>	<b>0.00</b>	<b>31.32</b>	<b>Nil</b>	<b>Nil</b>	<b>Nil</b>	<b>Nil</b>

S. No.	Source (loan)	Curren- cy	Year (2017-18)										Rs. Crore					
			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
1	2	2A	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	Term Loan + Transitional Loan	Indian	227.71	0.00	57.95	0.00%		169.76	11.74%	23.33	0.00	23.33	0.00	23.33	Nil	Nil	Nil	Nil
	<b>Total (for Station)</b>		<b>227.71</b>	<b>0.00</b>	<b>57.95</b>			<b>169.76</b>		<b>23.33</b>	<b>0.00</b>	<b>23.33</b>	<b>0.00</b>	<b>23.33</b>	<b>Nil</b>	<b>Nil</b>	<b>Nil</b>	<b>Nil</b>

S. No.	Source (loan)	Curren- cy	Year (2018-19)										Rs. Crore					
			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
1	2	2A	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	Term Loan + Transitional Loan	Indian	169.76	0.00	57.95	0.00%		111.81	11.74%	16.53	0.00	16.53	0.00	16.53	Nil	Nil	Nil	Nil
	<b>Total (for Station)</b>		<b>169.76</b>	<b>0.00</b>	<b>57.95</b>			<b>111.81</b>		<b>16.53</b>	<b>0.00</b>	<b>16.53</b>	<b>0.00</b>	<b>16.53</b>	<b>Nil</b>	<b>Nil</b>	<b>Nil</b>	<b>Nil</b>

## Details of Project Specific Loans

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

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.  
Dholpur Combined Cycle Power Project

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

## Consolidated report on additions to Fixed Assets during the year

of the Petitioner  
the Power Station :

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.  
Dholpur Combined Cycle Power Project

(Rs. in crores)

S.No.	Asset Description	Asset Code	Previous year 2016-17							Current Year 2017-18							Current Year 2018-19						
			(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
1	Land & land rights	10.1 XX	0.000							0							0						
2	Building & Civil works of Power plant	10.2 XX	0.000							0							0						
3	Hydraulic works	10.3 XX	0.000							0							0						
4	Other Civil works	10.4 XX	0.000							0							0						
5	Plant & machinery	10.5 XX	0.000							0							0						
6	Lines and Cable Networks	10.6 XX	0.000							0							0						
7	Vehicles	10.7 XX	0.000							0							0						
8	Furniture & fixtures	10.8 XX	0.018							0							0						
9	Office Equipments	10.9 XX	0.000							0							0						
10	Capital spares	10.10 XX	0.124							0							0						
	Total		0.143							0							0						

Form G 6.5

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

Name of the Petitioner :	Rajasthan Raja Vidhyut Utpadan Nigam Ltd.					
Name of the Power Station :	Dholpur Combined Cycle 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					
<b>Capital Cost excluding IDC &amp; FC</b>						
Foreign Component, if any (In Million US \$ or the relevant Currency)						
Domestic Component (Rs. Cr.)						
<b>Capital cost excluding IDC &amp; FC (Rs. Cr)</b>						
<b>IDC &amp; FC</b>						
Foreign Component, if any (In Million US \$ or the relevant Currency)						
Domestic Component (Rs. Cr.)						
<b>Total IDC &amp; FC (Rs.Cr.)</b>						
Rate of taxes & duties considered						
<b>Capital cost Including IDC &amp; FC</b>						
Foreign Component, if any (In Million US \$ or the relevant Currency)						
Domestic Component (Rs. Cr.)						
<b>Capital cost Including IDC &amp; FC (Rs. Cr)</b>						
<b>Schedule of Commissioning</b>						
COD of Unit-I/ Block-I						
COD of Unit-II/ Block-II						
-----						
-----						
COD of last Unit/ Block						
Note:						
1. Copy of approval letter should be enclosed.						
2. Details of Capital cost are to be furnished in relevant forms						
3. Details of IDC & Financing Charges are to be furnished in relevant form						

**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.  
Dholpur Combined Cycle Power Project

S.No.	Break Down	Cost in Rs. Crores			Variation (Rs. Cr.)	Reasons for Variation	Rs. Crore. 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	<b>Balance of Plant</b>						
9.1	<b>Mechanical BOP</b>						
	Coal handling system / fuel handling system and storage						
9.1.1							
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						
	Misc. items including EOT cranes, hoist and elevators etc.						
9.1.11							
9.1.12	Tax, Duties, F&I						
9.1.13	Spares						
9.2	<b>Electrical BOP</b>						
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	<b>Total BOP Civil Works</b>						
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	<b>Control and Instrumentation</b>						
11.0	Operator Training						
12.0	Start up fuel						
13.0	Construction insurance						
14.0	Special T&P						
15.0	<b>Total Cost of Works (sum of items 1 to 15 above)</b>						
16.0	<b>Overheads</b>						
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	<b>Capital cost excluding IDC &amp; FC</b>						
18	Interest During Construction (IDC)						
19	Financing Charges (FC)						
20.0	<b>Capital cost including IDC &amp; FC</b>						
21	Cost per MW						
Note: 1. Above list is illustrative 2. In case of time & Cost over run, a detailed note giving reasons of such time and cost over run should be submitted clearly bring out the agency responsible and whether such time & cost over run was beyond the control of the generating company.							

N/A

Break-up of Construction / Supply / Service packages

Name of the Petitioner : Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.  
 Name of the Power Station : Dholpur Combined Cycle Power Project

S.No.	Name/No. of Construction / Supply / Service Package	Scope of works <sup>1</sup> (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 <sup>2</sup> 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																	
6																	
7																	
8																	
9																	
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29																	
30																	
31																	
32																	

NA

<sup>1</sup> The scope of work in any package should be indicated in conformity of Capital cost break-up for the coal/ lignite based plants to the extent possible. In case of Gas/ Liquid fuel based projects, break down in the similar manner in the relevant heads.

<sup>2</sup> If there is any package, which need to be shown in Indian Rupee and foreign currency(ies), the same should be shown separately alongwith the currency, the exchange rate and the date e.g. Rs.80 Cr+US\$50m=Rs.280Cr at US\$=Rs40 as on say 4.1.1999.

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

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.  
Dholpur Combined Cycle 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
	<b>1 Loans</b>												
	<b>1.1 Foreign Loans</b>												
	<b>1.1.1 Foreign Loan 1</b>												
	Draw down Amount												
	IDC												
	Financing charges												
	<b>1.1.2 Foreign Loan 2</b>												
	Draw down Amount												
	IDC												
	Financing charges												
	<b>1.1.3 Foreign Loan 3</b>												
	Draw down Amount												
	IDC												
	Financing charges												
	<b>1.1.4 --</b>												
	--												
	--												
	<b>1.1 Total Foreign Loans</b>												
	Draw down Amount												
	IDC												
	Financing charges												
	<b>1.2 Indian Loans</b>												
	<b>1.2.1 Indian Loan 1</b>												
	Draw down Amount												
	IDC												
	Financing charges												
	<b>1.2.2 Indian Loan 2</b>												
	Draw down Amount												
	IDC												
	Financing charges												
	<b>1.2.3 Indian Loan 3</b>												
	Draw down Amount												
	IDC												
	Financing charges												
	<b>1.2.4 --</b>												
	--												
	--												
	<b>1.2 Total Indian Loans</b>												
	Draw down Amount												
	IDC												
	Financing charges												
	<b>1 Total of Loans drawn</b>												
	IDC												
	Financing charges												
	<b>2 Equity</b>												
	<b>2.1 Foreign equity drawn</b>												
	<b>2.2 Indian equity drawn</b>												
	<b>Total equity deployed</b>												

NA

Note: Drawal of debt and equity shall be on paripassu basis to meet the commissioning schedule. Drawal of higher equity in the beginning is permissible.



**Form G 6.9**  
**RETURN ON EQUITY**

Name of the Petitioner: Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.  
Name of the Power Station : Dholpur Combined Cycle Power Project

Rs. Crore

S.No.	Particulars	Reference	Previous year 2016-17	Current Year FY 2017-18			Ensuing Year FY 2018-19	Remarks
			(Actuals/audited)	Approved by the Commission	Apr-Sep (Actual)	Estimated for (Oct-Mar)	(Anticipated)	
1	2	3		5	6		8	9
1	Equity at the beginning of the year		347.00		347.04	347.04	347.04	
2	Capitalisation		0.14		0.00	0.00	0.00	
3	Equity portion of capitalisation		0.04		0.00	0.00	0.00	
4	Equity at the end of the year		347.04		347.04	347.04	347.04	
	<b>Return Computation</b>							
5	Return on Equity at the beginning of the year	15.50%*for 16-17 and onwards	53.79		26.90	26.90	53.79	
6	Return on Equity portion of capitalisation (on pro-rata basis)	15.50%*for 16-17 and onwards	0.00		0.00	0.00	0.00	
7	<b>Total Return on Equity</b>	(5)+(6)	<b>53.79</b>	<b>53.79</b>	<b>26.90</b>	<b>26.90</b>	<b>53.79</b>	

## Statement of Additional Capitalisation after COD and Details for Financing

Name of the Petitioner:  
Name of the Power Station  
COD

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.  
Dholpur Combined Cycle Power Project

(Rs. Crore)

S.No.	Work/Equipment added after COD up to Cut off Date / Beyond Cut off Date	Amount Capitalised / Proposed to be capitalised	Justification	Regulations under which such additional capitalisation has been claimed	Source of Finance					Admitted Cost <sup>1</sup>
					Loan 1	Loan 2 and so on	Total Loan	Equity	Internal Sources or Others (mention details)	
	1 Land & land rights	0.00								
	2 Building & Civil works of Power plant	0.00								
	3 Hydraulic works	0.00								
	4 Other Civil works	0.00								
	5 Plant & machinery	0.00								
	6 Lines and Cable Networks	0.00								
	7 Vehicles	0.00								
	8 Furniture & fixtures	0.02								
	9 Office Equipments	0.00								
	10 Capital spares	0.12								
Total		0.14								

## Form G 6.11

## Interest on Working Capital

Name of the Petitioner

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.

Name of the Power Station

Dholpur Combined Cycle Power Project

Rs. Crore

S. No.	Particulars		FY 2016-17	FY 2017-18		FY 2018-19	Remarks	
			(Actuals / audited)	Approved by the Commission	Apr-Sep (Actual)	Oct-March (Estimated)		(Anticipated)
1	2		3	4	5	6 = 4+5	7	8
1	Coal Cost ( Non pit head)	1½ Month		NA	NA	NA	NA	
2	Coal Cost ( Pit head)	Half month		NA	NA	NA	NA	
3	Cost of Gas	Half month	2.03		1.16	19.74	39.59	
4	Sec.Fuel Oil	Two month	0.00	NA	NA	NA	NA	
5	Liquid Fuel Stock	Half month		NA	NA	NA	NA	
6	O & M expenses	One month	3.72		1.97	1.97	4.16	
	Maintenance Spares	30% of O&M	13.38		7.08	7.08	14.99	
	Recievables	1½ Month	27.53		15.33	72.17	144.18	
	<b>Total Working Capital</b>		<b>46.66</b>		<b>25.53</b>	<b>100.95</b>	<b>202.92</b>	
	Rate of Interest (as per norms)		12.26%		11.80%	11.80%	11.80%	
	<b>Interest on Working Capital</b>		<b>5.72</b>	<b>20.27</b>	<b>3.01</b>	<b>11.91</b>	<b>23.94</b>	

## Insurance Expenses

Name of the Petitioner: Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.  
 Name of the Power Station : Dholpur Combined Cycle Power Project

S. No.	Particulars	Previous Year	Current Year (n)			Ensuing Year	Remarks
		2016-17	2017-18		2018-19		
		(Actuals/audited)	Approved by the Commission	Apr-Sep (Actual)	Oct-March (Estimated)	(Anticipated)	
1	2	4	5	6	7	8	9
	<b>Insurance Expenses</b>	0.96	0.93	0.50	0.50	1.06	
a)	Provision made/ proposed for the year						
b)	Actual insurance expenses incurred						
c)	Average Net Fixed Assets	629.00		571.13	571.13	513.18	

## Tax on R.O.E.

Name of the Petitioner:

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.

Name of the Power Station :

Dholpur Combined Cycle Power Project

Rs.

S. No.	Particulars	Previous Year 2016-17	Current Year 2017-18	Ensuing Year 2018-19	Remarks
		(Actuals/audited)	Actual/ Estimated	Proposed to be recovered	
1	2	3	4	5	6
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				

Note:- Tax calculated should be only for the generation business and should not include income from any other income stream like efficiency gain & incentive etc.

Form G 7.1

Proposed improvement in performance

Name of the Petitioner

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.

Name of the Power Station :

Dholpur Combined Cycle Power Project

Rs. Crore

S.No.	Particulars	Previous year	Current year			MYT Control Period					Remarks
		FY 2016-17 (Actuals / audited)	FY 2017-18			FY 2018-19	n+2	n+3	n+4	n+5	
			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	3.38%	3.71%	80.00%		80.00%					
2	Auxiliary consumption	24.03%	30.20%	2.90%		2.90%					
3	Specific fuel consumption										
(I)	coal, kg / kWh										
ii)	gas, SCM / kWh	0.25	0.28	0.22		0.22					
(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	2334.08	2513.26	1994.00		1994.00					
5	Annual Maitenance shut down days										
6	Forced / planned shut down except annual shut down										
(I)	number / year										
(ii)	cumulative duration, hours / year										
7	Fly ash utilisation, %	100%	100%	100%		100%					
8	Other bye product utilisation(give list)										
9	Outstanding dues, days of receivables										
10	Availability	26.47%	20.44%	-		80.00%					