

**Petition for**  
**Aggregate Revenue Requirement (ARR) and Tariff**  
**for FY 2020-21 for**  
**Dholpur Combined Cycle Power Plant (DCCPP)**

Submitted to

Rajasthan Electricity Regulatory Commission

Jaipur

by

Rajasthan Rajya Vidyut Utpadan Nigam Limited

Vidyut Bhavan, Janpath, Jaipur

December 2020

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## Definitions

<b>Act</b>	The Electricity Act, 2003
<b>Application</b>	This ARR and Tariff Petition for FY-2020-21 for Dholpur Combined Cycle Power Plant 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 2019.
<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 (Terms and Conditions for Determination of Tariff) Regulations, 2019 notified by RERC on May- 27, 2019
<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 – 19	Financial Year 2018-19
FY – 20	Financial Year 2019-20
FY – 21	Financial Year 2020-21
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
PLF	Plant Load Factor
PPA	Power Purchase Agreement
R&M	Repairs and Maintenance
RERC/ Commission	Rajasthan Electricity Regulatory Commission
RUVN	Rajasthan Urja Vikas Nigam Limited
RVUN	Rajasthan Vidyut Utpadan Nigam Limited
RVPN	Rajasthan 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 40.27:27.14:32.59 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 Tariff and ARR Petition for FY 2020-21 in accordance with provision of Regulation 6(1) of RERC Tariff Regulations 2019. Accordingly on 29.11.2019, RVUN had filed petition before Hon'ble commission for determination of ARR and Tariff for F.Y. 20-21 for DCCPP. Hon'ble Commission has issued an order on dated 11.09.2020 for the above said petition.
- 1.4 In the order dated 11.09.2020, Hon'ble Commission has stated that **"As per the provisions of RERC Tariff Regulations, 2019, the availability of the plant is to be considered duly considering the availability of fuel. In case of DCCPP, firm fuel is not available at firm price. Also, in previous financial years availability of fuel remain inadequate because of which, DCCPP was not able to achieve the optimum level of generation. Hence, the Commission, deems it appropriate not to determine the tariff for DCCPP at this stage in the absence of firm fuel tie-up at firm price. However, the Petitioner is directed to file a fresh petition for determination of tariff for FY 2020-21 for DCCPP, once the fuel is tied up in required quantity on firm basis and the Commission will determine the tariff considering the fuel tied up by RVUN."**
- 1.5 In compliance of the above direction RVUN is filing this instant petition for determination of ARR and Tariff for FY 2020-21. It is to submit that RVUN has signed a firm Spot Gas sales agreement on long term basis with M/s GAIL on 29.07.2020, valid upto 01.01.2026 (Copy of SGSA is attached as **Annexure- A**). As per this agreement the price of Gas is variable and shall be as per Gas sales purchase Notice (GSPN).

## A2: GENERATION FORECAST

- 2.1 The installed capacity of DCCPP is 330 MW. The estimated figures of Gross generation, PLF & net energy sale to three Discoms from DCCPP of RVUN for the period FY 2018-19, FY 2019-20 and FY 2020-21 are as shown in table below:

**Table 1: Gross generation, PLF & Ex-bus energy sale from DCCPP**

Particulars	Units	FY 18-19	FY 19-20	FY 20-21
Total Capacity	MW	330	330	330
Availability	%	81.06	46.67	70.00
Plant Load Factor	%	0.07	0.00	70.00
Gross Generation	MU	20.93	0.00	2023.56
Auxiliary Energy Consumption	%	1.76	0.00	2.90
Auxiliary Energy Consumption	MU	-	0.00	58.68
Net Generation	MU	18.78	0.00	1964.88

2.2 The fixed cost elements are detailed hereunder for DCCPP for the FY 2018-19, FY 2019-20 and FY 2020-21 are as below.

### FIXED CHARGES

#### A3: DCCPP ANNUAL CAPACITY (FIXED) CHARGES FOR 2020-21

3.1 The details of various components of the annual capacity (fixed) charges are as under:-

#### **Depreciation:-**

3.2 For the purpose of computation of depreciation, RVUN has considered approved capital cost as per RERC order dated 05.08.2019. Accordingly, the opening capital cost of DCCPP has been considered as Rs.1115.00 crore for FY 2018-19.

3.3 While calculating Depreciation (Form 6.1) the above capital cost and additions have been considered and accordingly calculation of Fixed Asset and Depreciation for DCCPP has been shown in Form 6.1 and COD of this plant was 01.03.2008 and has completed 12 years in 2019-20 accordingly depreciation of FY 2020-21 has been computed.

3.4 Based on the above, figures of depreciation for FY 2018-19, FY 2019-20 and FY 2020-21 as computed under format 6.1 are summarised in table below:

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

Particulars	FY 18-19 Approved	FY 19-20 (Unaudited)	FY 20-21 (Anticipated)
Depreciation	57.92	57.92	24.21



### Interest on Loans:-

- 3.5 The loan-wise interest expenses & finance charges, which include term loans as well as transitional loans, have been worked-out and taken as part of fixed cost. The loan repayment amount for term loans and transitional loans combined has been taken equal to the depreciation figure envisaged for FY 2018-19, FY 2019-20 and FY 2020-21.
- 3.6 Estimated figures for interest on term loan, transitional loan and finance charges are computed as per regulation 21 of RERC, Tariff Regulations, 2014 & 2019 and are summarised in table below:

**Table 3: Interest on Loans (Rs. in Crore)**

Particulars	FY 18-19 Approved	FY 19-20 (Unaudited)	FY 20-21 (Anticipated)
Interest on term Loan , Transitional loan & Finance charges	14.70	8.41	4.00

### Interest on working Capital

- 3.7 The interest on working capital loan for FY 2018-19, FY 2019-20 and FY 2020-21 has been computed as per the norms defined under Regulation 27 of RERC Tariff regulation 2014 & 2019. For FY 2018-19 the rate of interest on WCL has been 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 and for FY 2020-21, has been taken 300 basis points higher than the average Base Rate prevalent during first six months of the year previous to the relevant year. Estimated figure of Interest on Working Capital is summarised as below:

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

Particulars	FY 18-19 Approved	FY 19-20 (Unaudited)	FY 20-21 (Anticipated)
Interest on Working Capital	39.05	20.08	24.30

### Operation & Maintenance Expenses

- 3.8 The Operation & Maintenance Expenses have been computed as per the norms prescribed under Regulation 47 of RERC Tariff Regulations 2014 & 2019 respectively.
- 3.9 Estimated figures for the period FY 2018-19, FY 2019-20 and FY 2020-21 are summarised in Table below.

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

Particulars	FY 18-19 Approved	FY 19-20 (Unaudited)	FY 20-21 (Anticipated)
O & M Expenses	49.96	49.96	51.72

## Insurance Charges

- 3.10 RVUN is claiming the insurance charges as per Regulation 25 of RERC Tariff Regulations 2019 for DCCPP for the year 2020-21 on the basis of actual insurance charges paid in preceding year. The details are shown in the table below.

**Table 6: Insurance Charges (Rs. in Crore)**

Particulars	FY 18-19 Approved	FY 19-20 (Unaudited)	FY 20-21 (Anticipated)
Insurance Charges	0.99	1.41	1.48

## Return on Equity (ROE)

- 3.11 The Return on Equity has been computed as per the norms prescribed under Regulation 20 of RERC Tariff Regulation 2014 & 2019.
- 3.12 The Return on Equity (ROE) for FY 2018-19, FY 2019-20 and FY 2020-21 are summarised in Table below:

**Table 7: Return on Equity (Rs. in Crore)**

Particulars	FY 18-19 Approved	FY 19-20 (Unaudited)	FY 20-21 (Anticipated)
Return on Equity	53.79	52.05	52.05

## Tax on ROE

- 3.13 The Tax on Return on Equity has been computed as per the norms prescribed under Regulation 29 of RERC Tariff Regulation 2014 & 2019.
- 3.14 The Tax on Return on Equity (ROE) for FY 2018-19, FY 2019-20 and FY 2020-21 are summarised in Table below:

**Table 8: Tax on RoE (Rs. in Crore)**

Particulars	FY 18-19 Approved	FY 19-20 (Unaudited)	FY 20-21 (Anticipated)
Tax on ROE	0.00	0.00	0.00

## Toward Terminal Benefit

- 3.15 The Terminal Benefits has been separately allowed over and above the normative O&M expenses as per Regulation 47(7) of RERC Regulations, 2019 which is reproduced as below:

*" ....Provided that terminal liabilities based on actuarial valuation, over and above the normative O&M Expenses, subject to prudence check shall be allowed through tariff separately."*

It is submitted that RVUN has computed terminal benefits on the basis of actuarial valuation of previous year audited accounts of FY 18-19.

3.16 The estimated benefits for FY 2018-19, FY 2019-20 and FY 2020-21 are summarised in Table below:

**Table 9: Terminal Benefits (Rs. in Crore)**

Particulars	FY 18-19 Approved	FY 19-20 (Unaudited)	FY 20-21 (Anticipated)
Towards Terminal Benefits	0.00	7.59	6.39

### Non-Tariff Income

3.17 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)

3.18 Estimated figures of Non Tariff Income for FY 2018-19, FY 2019-20 and FY 2020-21 are summarised in table below:

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

Particulars	FY 18-19 Approved	FY 19-20 (Unaudited)	FY 20-21 (Anticipated)
Non Tariff Income	3.11	0.45	0.48

3.19 As per Regulation 36 of RERC Tariff Regulations 2014 & 2019, the non-tariff income has been deducted from the fixed charges computed and only the net fixed charges are to be recovered from the three distribution companies.

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

4.1 The net fixed charges is computed for FY 2018-19, FY 2019-20 and FY 2020-21 in the Table below:

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

Particulars	FY 18-19	FY 19-20	FY 20-21
Depreciation	57.92	57.92	24.21
Interest on Loan	14.70	8.41	4.00
Return on Equity	53.79	52.05	52.05
Interest on Working Capital	39.05	20.08	24.30
O & M Expenses	49.96	49.96	51.72
Insurance Charges	0.99	1.41	1.48
Towards Terminal Benefits	0.00	7.59	6.39
Total Fixed Charges	216.41	197.43	164.14
Less: Non-Tariff income	3.11	0.45	0.48
Net Fixed Charges	213.29	196.97	163.66

## **A5: VARIABLE CHARGES**

### **Availability, PLF, Auxiliary Consumption, SHR, Gas GCV, Price and Cost of fuel.**

- 5.1 Availability and Plant Load Factor has been considered as 70% as per Regulation 45(1)(c) and 45(2)(c) of RERC Tariff Regulations 2019 for FY 2020-21.
- 5.2 Auxiliary Power Consumption has been taken as 2.90% considering 95% in closed cycle and 5 % in open cycle as per Regulation 45(6)(d) of RERC Tariff Regulations 2019 for FY 2020-21 .
- 5.3 Similarly, SHR of the station has been taken as 1994 considering 95% in closed cycle and 5 % in open cycle as per Regulation 45(3)(a) of RERC Tariff Regulations 2019 for FY 2020-21.
- 5.4 In the order dated 11.09.2020, *Hon'ble Commission has stated that*

*"As per the provisions of RERC Tariff Regulations, 2019, the availability of the plant is to be considered duly considering the availability of fuel. In case of DCCPP, firm fuel is not available at firm price. Also, in previous financial years availability of fuel remain inadequate because of which, DCCPP was not able to achieve the optimum level of generation. Hence, the Commission, deems it appropriate not to determine the tariff for DCCPP at this stage in the absence of firm fuel tie-up at firm price. However, the Petitioner is directed to file a fresh petition for determination of tariff for FY 2020-21 for DCCPP, once the fuel is tied up in required quantity on firm basis and the Commission will determine the tariff considering the fuel tied up by RVUN."*

- 5.5 With regard to above direction, it is submitted that RVUN was in regular pursuance with M/s GAIL for execution of long term agreement for supply of Gas on sustainable basis of required quantity at reasonable /competitive price, since Dec, 19 so as to ensure cheaper supply of power to Discoms. Finally, RVUN has entered into a long term gas supply agreement (SGSA) with GAIL on 29.07.2020, valid up to 01.01.2026. The copy of the same was also submitted with additional submission in the matter of ARR FY 2020-21 and APR for FY 2018-19 on 09.09.2020. In terms of Article 2(Transaction) of SGSA, quantity and price of Gas shall be regulated through Gas Supply and Purchase Notice (GSPNs), which will be offered by M/s GAIL from time to time. It is also submitted that price of Gas cannot be firm considering various factors like change in Dollar price, type of Gas, GCV of Gas etc. M/s GAIL has offered two options of GSPN so far under the above SGSA which are as under:-
  - a. Options 1: The price of Gas was in lower side, but there was take or pay charges 50% (with minimum quantity obligation). The power was also drawn by Discoms during the period 01.08.2020 to 25.08.2020, with the consent to bear Take or Pay obligation of 50%.

- b. Options 2: The price of Gas on the market basis (RE basis), which was on higher side than option 1, but there was no take or pay obligation. The plant was under operation from 02.12.2020 to 05.12.2020 with a gas price USD 8.50 per MMBTU and corresponding variable cost of Rs. 5.83/kWh and power was drawn by Discoms during the period. However there was no take or pay obligation and therefore no fuel cost was incurred in regard to the period for which no scheduling was done by Discoms.
- 5.6 Accordingly, energy charges has been computed considering the price of gas as open market rate up to the month Dec, 20 and rest with the gas price as offer provided by M/s GAIL with take of Pay charges for the period effective from 01.01.2021. It is further submitted that apart from DCCPP, Discoms are also taking power from Anta, Auriya and Dadri (NTPC Power plants which are similarly situated), having gas supply agreement with M/s GAIL on 80% take and pay liability.
- 5.7 Further, it is also submitted that average cost of power purchase from Anata, Auriya Gas based Power Plants of NTPC, by Discoms works out to be more than Rs. 8 per unit, which is substantially higher than purchase from DCCPP. It is also a fact that India is facing gas shortage all over, out of total Approx 25000 MW Gas based power plant, 14000 MW is classified as stranded. Despite of gas shortage throughout India, RVUN has entered into a firm supply agreement with M/s GAIL where they would be supplying gas to RVUN for DCCPP upto 2026 as per required quantity on regular basis.
- 5.8 It is evident from the GSPNs executed under terms of SGSA Dt. 29.07.2020 so far which are attached with the petition that RVUN tied up gas in required quantity (58810 MMBTU/Day) to run the plant more than normative availability allowed consistently but prices are different depending upon option of with or without Take or Pay obligation.
- 5.9 Information of GAIL offers for period FY 2020-21 is enclosed as **Annexure B**.
- 5.10 It is submitted that the RRVUNL cannot be denied tariff when it is declaring availability and in fact being scheduled and energy is supplied. In case of non availability of gas, the same is due to scarcity of gas and not for any reason attributable to RRVUNL. Even otherwise, in case of any default on RRVUNL to arrange for fuel, it would disentitle RRVUNL to claim capacity charges. However when RRVUNL has arranged for fuel and declared availability based on fuel, RRVUNL cannot be denied the capacity charges for the same. Even if the Discoms decides not to take the power, the capacity charges would be payable but in such circumstances, under Option 2, there will not be any implication of take or pay obligation for gas price.
- 5.11 In fact the Discoms have actually scheduled the electricity from the DCCPP based on the availability and therefore RRVUNL is entitled to tariff. During the year 2020-21, the Discoms have scheduled a total of 104.139MU as on date.

5.12 It is further relevant to note that neither the Regulations nor the PPA provide for any obligation on a generating company to have any firm FSA or otherwise any particular type of FSA. RRVUNL has arranged for fuel and has entered into a FSA with GAIL. RRVUNL is declaring availability based on fuel available and RRVUNL is entitled to tariff. Denial of tariff to RRVUNL is contrary to principles of Section 61, PPA as well as fundamental principles of supply of goods and services.

5.13 The overall estimated figures of variable Cost for the period under consideration, are summarised in Table below.

**Table 12: Variable Cost (Rs. in Crore)**

Particulars	Units	FY 18-19	FY 19-20	FY 20-21
		Approved By Commission	April to March (Actual unaudited)	Anticipated
<b>Operational Parameters</b>				
Total Capacity	MW	330	330	330
Availability	%	81.06	93.09	70.00
PLF	%	0.07	0.00	70.00
Gross Generation	MU	20.93	0.00	2023.56
Auxiliary Energy Consumption	%	1.76	0.00	2.90
Auxiliary Energy Consumption	MU	-	0.00	58.68
Net Generation	MU	18.78	0.00	1964.88
Heat Rate	kcal/kWh	2493.85	0.00	1994.00
<b>Gross Calorific Value</b>				
Natural Gas	kCal/SCM	9222.75	0	9880.00
Imported Coal	kcal/kg	0.00	0.00	0.00
HFO	kcal/Ltr	0.00	0.00	0.00
LDO	kcal/Ltr			
Landed Fuel Price per unit (Please specify the fuel)				
Natural Gas	Rs/SCM	28.08	18.43	25.43
Imported Coal	Rs/MT	0.00	0.00	0.00
HFO	Rs/KL	0.00	0.00	0.00
LDO	Rs/KL			
Specific Fuel Consumption				
Natural Gas	SCM/kWh	0.27	0.00	0.20
Imported Coal	Kg/kWh	0.00	0.00	0.00
HFO	ml/kWh	0.00	0.00	0.00
LDO	ml/kWh			
Total Fuel Cost				
Natural Gas	Rs Crore	14.50	0.00	1038.71

Particulars	Units	FY 18-19	FY 19-20	FY 20-21
		Approved By Commission	April to March (Actual unaudited)	Anticipated
Imported Coal	Rs Crore	0.00	0	0.00
HFO	Rs Crore	0.00	0.00	0.00
LDO	Rs Crore			
<b>Total Fuel Cost</b>	Rs Crore	14.50	0.00	1038.71
<b>Other Charges and Adjustments</b>				
Other Charges (pl. specify details)	Rs Crore	0.01	0.00	0.00
Other Adjustments (Pl. specify details)	Rs Crore			
<b>Total Other Charges and Adjustments</b>	Rs Crore	0.01	0.00	0.00
<b>Total Cost</b>	Rs Crore	14.51	0	1038.71
<b>Cost of Generation per unit (at Generation Terminal)</b>	Rs/kWh	-	0.00	5.13
<b>Energy Charge per unit (ex-bus)</b>	Rs/kWh	7.73	0.00	5.29

#### A6: ESTIMATED ARR FOR DCCPP

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

**Table 13: ARR for DCCPP (Rs. in Crore)**

Particulars	FY 18-19	FY 19-20	FY 20-21
Fixed Charges (Rs. in Cr.)	213.46	196.97	163.66
Variable Charges (Rs. in Cr.)	14.51	0.00	1038.71
Total Aggregate Revenue Requirement (Rs. in Cr.)	227.97	196.97	1202.37

#### A7: DCCPP ESTIMATED TARIFF

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

**Table 14: DCCPP ESTIMATED TARIFF**

Particulars	FY 18-19	FY 19-20	FY 20-21
Net Generation (MU)	18.78	0.00	1964.88
Fixed Charges (Rs. in Cr.)	213.29	196.97	163.66
Variable Charges (Rs. in Cr.)	14.51	0.00	1038.71
Total Aggregate Revenue Requirement (Rs. in Cr.)	227.80	196.97	1202.37
Rate of Fixed Charges (Rs./kWh)	-	-	0.83
Rate of Variable Charges (Rs./kWh)	-	0.00	5.29
Rate of Sale of Energy (Rs./kWh)	-	-	6.12

**A8: FUEL COST ADJUSTMENT**

8.1 As per RERC Tariff Regulation 2019, 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:-**

9.1 All the Discom's (i.e JVNL/AVNL/ Jd.VNL/RUVNL) Jaipur/ Ajmer/ Jodhpur/Jaipur are respondents for the above petition.

**A10: PRAYER**

10.1 RVUN humbly request the Hon'ble Commission for :

- ◆ Allow adhoc tariff w.e.f. 01.04.2020 till finalisation of the order.
- ◆ Approval of ARR & Tariff for FY-2020-21.
- ◆ Condoning 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
- ◆ Passing such other further orders as are deemed fit and proper in the facts and circumstances of the case.

Sita Ram Sharma  
Chief Accounts Officer (Accounts-PPMC&IT)  
RVUN, Jaipur

(A.K.Middha)  
Dy.Chief Engineer (PPMC&IT/PT&D)  
RVUN, Jaipur



## Form G 1.1

## Summary of Tariff Proposal

Name of the Company

RVUN

Name of the Power Station :

DCCPP

(Rs. Crore)

S.No.	Particulars	Ref.of Form No	FY 18-19		FY 19-20	FY 20-21	Remark
			Approved By Commission		April to March (Actual unaudited)	Anticipated	
1	2	3	4	5	6	7	8
1	<b>Capacity (Fixed) Charge</b>						
1.1	Depreciation	6.1	57.92		57.92	24.21	
1.2	Interest on term Loan , Transitional loan & Finance charges	6.2a	14.70		8.41	4.00	
1.3	Return on Equity	6.4	53.79		52.05	52.05	
1.4	Interest on Working Capital	6.6	39.05		20.08	24.30	
1.5	O & M Expenses	4.1	49.96		49.96	51.72	
1.6	Insurance Charges	6.70	0.99		1.41	1.48	
1.7	Tax on ROE	6.8	0.00		0.00	0.00	
1.8	Recovery of ARR & Tariff Fee		0.17		0.00	0.00	
1.9	Towards Terminal Benefits		0.00		7.59	6.39	
1.1	Less Adjustment of excess depreciation		0		0.00	0	
1.11	Less: Non-Tariff income	3.2	3.11		0.45	0.48	
	<b>Total (1)- Capacity (Fixed Charges)</b>		213.46		196.97	163.66	
2	<b>Total- Energy (variable ) charges</b>		14.51		0.00	1038.71	
3	<b>Units sold to Discoms (MU)</b>		18.78		0.00	1964.88	
4	<b>Rate of Fixed Charges. ( 1/3)</b>		-		-	0.83	
5	<b>Rate of Variable Charges.</b>	5.3	-		0.00	5.29	
	(i) Coal/ Lignite		-		0.00	5.29	
	(ii) Imported Coal		0.00		0.00	0.00	
	(iii) Any Other fuel		0.00		0.00	0.00	
	Total 2.1		0.00		0.00	5.29	
5.2	Rate of Energy Charge from Secondary Fuel (REC) <sub>s</sub>	5.3	0.00		0.00	0.00	
5.3	Total-(2) Rate of Energy Charge ex-bus(REC) <sup>3A,3B,3C</sup>	5.3	-		-	6.12	

Form G 1.2

Aggregate Revenue Requirement

Name of the Company  
Name of the Power Station :

RVUN  
DCCPP

(Rs. Crore)

S.No.	Particulars	Reference Form	FY 18-19	FY 19-20		FY 20-21
			Approved By Commission		April to March (Actual unaudited)	Anticipated
1	2	3	4	5	6	7
<b>A</b>	<b>Receipts</b>					
1	Revenue from Sale of Power (Tariff income)	3.1	227.97		196.97	1202.95
2	Non Tariff income		3.11		0.45	0.48
3	Revenue Subsidies, Grants & Subvention from State Government		0.00		0.00	0.00
	Total- (A)		231.09		197.4269827	1203.42
<b>B</b>	<b>Expenditure</b>					
1	Variable Costs, including Fuel Cost	5.3	14.51		0.00	1038.71
2	Depreciation	6.1	57.92		57.92	24.21
3	Interest on term Loan & Finance charges	6.2a	14.70		8.41	4.00
4	Return on Equity	6.4	53.79		52.05	52.05
5	Interest on Working Capital	6.6	39.05		20.08	24.30
6	O & M Expenses	4.1	49.96		49.96	51.72
7	Insurance Charges	6.7	0.99		1.41	1.48
8	Tariff Fee		0.17		0.00	
9	Tax on ROE	6.8	0.00		0.00	0.00
10	Towards Terminal Benefits		0.00		7.59	6.96
<b>C</b>	<b>Total- (B) Expenditure</b>		231.09		197.43	1203.42
<b>D</b>	<b>A.R.R. (C-A.2)</b>		227.97		196.97	1202.95

**Form G 2.1**

**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						
	Chemical treatment of water before drain out of the plant						
<b>Any other special features</b>							
<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/ cm2)	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),</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				

## Form G 2.2

## Operational Parameters - Generation

Name of the Company  
Name of the Power Station :

RVUN  
DCCPP

Rs in Cr.

S. No.	Particulars	Units	FY 18-19	FY 19-20		FY 20-21
			Approved By Commission		April to March (Actual unaudited)	Anticipated
1	2	3	4	5	6	7
<b>1</b>	<b>Operational Parameters - Hydel</b>					
1.1	Total Capacity	MW				
1.2	Capacity Index	%				
1.3	Design Energy	MU				
1.4	Gross Generation	MU				
1.5	Auxiliary Energy Consumption	%				
1.6	Auxiliary Energy Consumption	MU				
1.7	Net Generation	MU				
<b>2</b>	<b>Operational Parameters - Thermal</b>					
2.1	Total Capacity	MW	330		330	330
2.2	Availability	%	81.06		93.09	70.00
2.3	Plant Load Factor	%	0.07		0.00	70.00
2.4	Gross Generation	MU	20.93		0.00	2023.56
2.5	Auxiliary Energy Consumption	%	1.76		0.00	2.90
2.6	Auxiliary Energy Consumption	MU	-		0.00	58.68
2.7	Net Generation	MU	18.78		0.00	1964.88
2.8	Heat Rate	Kcal/Kwh)	2493.85		0.00	1994.00

Form G 3.1

## Revenue from Sale of Power

Name of the Company  
Name of the Power Station :  
FY 18-19

RVUN  
DCCPP

Rs. Crore

S.No.	Particulars	Allocation (in %)/contract demand	Unit Sold (M.U.)	% of total Unit Sold	Demand/fixd Charges @	Energy Charges @	Others, if any	Total (6+7+8)	Average' rate/kWh (paisa/kWh)	Remarks
1	2	3	4	5	6	7	8	9	10	11
A)	Revenue from sale of Electricity(as per approved tariff)		18.78		213.46	14.51		227.97	12139.16	
1	Distribution Licensee/Trader/ Consumers									
(a)	IVVNL	40.00	7.51	40.00	85.39	5.80		91.19	12139.16	
(b)	AVVNL	28.30	5.31	28.30	60.41	4.11		64.52	12139.16	
(c)	IdVVNL	31.70	5.95	31.70	67.67	4.60		72.27	12139.16	
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>18.78</b>		<b>213.46</b>	<b>14.51</b>		<b>227.97</b>	<b>12139.16</b>	

Form G 3.1

## Revenue from Sale of Power

Name of the Company  
Name of the Power Station :  
FY 19-20

RVUN  
DCCPP

Rs. Crore

S.No.	Particulars	Allocation (in %)/contract demand	Unit Sold (M.U.)	% of total Unit Sold	Demand/fixd Charges @	Energy Charges @	Others, if any	Total (6+7+8)	Average' rate/kWh (paisa/kWh)	Remarks
1	2	3	4	5	6	7	8	9	10	11
A)	Revenue from sale of Electricity(as per approved tariff)		0.00		196.97	0.00		196.97	-	
1	Distribution Licensee/Trader/ Consumers									
(a)	IVVNL	40.27	0.00	40.27	79.32	0.00		79.32	-	
(b)	AVVNL	27.14	0.00	27.14	53.46	0.00		53.46	-	
(c)	IdVVNL	32.59	0.00	32.59	64.19	0.00		64.19	-	
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>0.00</b>		<b>196.97</b>	<b>0.00</b>		<b>196.97</b>	<b>-</b>	

Form G 3.1

## Revenue from Sale of Power

Name of the Company  
Name of the Power Station :  
FY 20-21

RVUN  
DCCPP

Rs. Crore

S.No.	Particulars	Allocation (in %)/contract demand	Unit Sold (M.U.)	% of total Unit Sold	Demand/fixd Charges @	Energy Charges @	Others, if any	Total (6+7+8)	Average' rate/kWh (paisa/kWh)	Remarks
1	2	3	4	5	6	7	8	9	10	11
A)	Revenue from sale of Electricity(as per approved tariff)		1964.88		163.66	1038.71		1202.37	611.93	
1	Distribution Licensee/Trader/ Consumers									
(a)	IVVNL	40.27	791.26	40.27	65.91	418.29		484.20	611.93	
(b)	AVVNL	27.14	533.27	27.14	44.42	281.91		326.32	611.93	
(c)	IdVVNL	32.59	640.35	32.59	53.34	338.52		391.85	611.93	
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>1964.88</b>		<b>163.66</b>	<b>1038.71</b>		<b>1202.37</b>	<b>611.93</b>	

Form G 3.3

REVENUE SUBSIDIES & GRANTS

Name of the Company                      RVUN  
 Name of the Power Station :            DCCPP

Rs. Crore

S. No.	Particulars	FY 18-19	FY 19-20		FY 20-21	Remarks
		Approved By Commission		April to March (Actual unaudited)	(Anticipated)	
1	2	3	4	5	6	7
A)	<b>Revenue Subsidies &amp; Grants</b>					
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>	0	0	0	0	

## Form G 3.4

## Capital Subsidies and Grants

Name of the Company  
Name of the Power Station :

RVUN  
DCCPP

Rs. Crore

S. No.	Particulars	FY 18-19	FY 19-20		FY 20-21	Remarks
		Approved By Commission		April to March (Actual unaudited)	(Anticipated)	
1	2	3	4	5	6	7
A	Capital Cost					
	Subsidy towards cost of Capitals Asset					
	Grant towards cost of Capitals Assets					
	Receipts from State Govt. under any scheme as grant/subsidy					
	<b>Total</b>	0	0	0	0	

Form G 4.1  
O&M Expenses

Name of the Company

RVUN

Name of the Power Station :

DCCPP

(Rs. Crore)

S.No.	Particulars	FY 18-19	FY 19-20		FY 20-21
		Approved By Commission		April to March (Actual unaudited)	(Anticipated)
1	2	3	4	5	6
1	O&M Expense norms (Rs. lakh per MW)	15.14		15.14	15.67
2	Total Capacity in MW	330.00		330.00	330.00
3	O&M expense	49.96		49.96	51.72
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				
5	<b>Totsl O&amp;M expenses</b>	49.96		49.96	51.72



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. 20-21)	Unit	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21
			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	8	9	10	11	12	13	14	15
1	Quantity of GAS in stock at the beginning of the month		0	0	0	0	0	0	0	0	0	0	0	0
2	Quantity of Gas supplied by M/s GAIL & RIL	(SCM)	50940740	52635208	51112181	52282833	40493166	0	50331947	0	0	0	0	0
3	Adjustment (+/-) in quantity supplied made by Gas Company	(SCM)	NIL	NIL	NIL	NIL	NIL	NIL	NIL	0	0	0	0	0
4	Gas supplied by M/s GAIL (2+3)	(SCM)	50940740	52635208	51112181	52282833	40493166	0	50331947	0	0	0	0	0
5	Normative Transit & Handling Losses (For coal based Projects)	(SCM)	NIL	NIL	NIL	NIL	NIL	NIL	NIL	0	0	0	0	0
6	Net GAS Supplied (4-5)	(SCM)	50940740	52635208	51112181	52282833	40493166	0	50331947	0	0	0	0	0
7	Total Gas(Receipts & Opening Stock) (1)+(6)	(SCM)	50940740	52635208	51112181	52282833	40493166	0	50331947	0	0	0	0	0
8	GAS burnt/consumed	(SCM)	27749	0	0	0	27907711	0	0	0	0	0	0	0
9	GAS in stock at the end of the month	(SCM)	NIL	NIL	NIL	NIL	NIL	NIL	NIL	0	0	0	0	0
10	Value of GAS in stock	(Rs.)	0							0	0	0	0	0
11	Amount charged by M/s GAIL	(Rs.)	768226	0	0	0	300754773	0	0	0	0	0	0	0
12	Adjustment (+/-) in amount charged made by Gas Company	(Rs.)	NIL	NIL	NIL	NIL	NIL	NIL	NIL	0	0	0	0	0
13	Total amount Charged (11+12)	(Rs.)	768226	0	0	0	300754773	0	0	0	0	0	0	0
14	Transportation charges by M/s GAIL	(Rs.)	62007	0	0	0	59465273	0	0	0	0	0	0	0
15	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)	NIL	NIL	NIL	NIL	697713	NIL	NIL	0	0	0	0	0
16	Letter of Credit Commission Charges paid to Bank by H/O Jaipur	(Rs.)	1435492	NIL	NIL	NIL	NIL	NIL	NIL	0	0	0	0	0
17	Cost of diesel in transporting coal through MGR system, if applicable (For coal based Projects)	(Rs.)	NIL	NIL	NIL	NIL	NIL	NIL	NIL	0	0	0	0	0
18	Total Transportation Charges (14+/-15+16+17)	(Rs.)	0	0	0	0	59465273	0	0	0	0	0	0	0
19	Total amount Charged for GAS supplied including Transportation (13+18)	(Rs.)	2265725	0	0	0	360917759	0	0	0	0	0	0	0
20	Average cost of GAS (Opening stock + receipts) (19/8)	(Rs/SCM)	82	-	-	-	13	-	-	0	0	0	0	0
21	Cost of GAS in stock at the end of the month (20)x(9)	(Rs.)	NIL	NIL	NIL	NIL	NIL	NIL	NIL	0	0	0	0	0
22	Weighted average NCV of GAS as fired	(kCal/Kg)	8299	-	-	-	8247	-	-	0	0	0	0	0
23	Weighted average GCV of GAS as fired	(kCal/Kg)	9208	-	-	-	9155	-	-	0	0	0	0	0

Form G 5.2

Limestone for computation of Energy Rate

Name of the Company

RVUN

Name of the Power Station :

DCCPP

S. No.	Month	Unit	For preceeding 3rd Month	For preceeding 2nd Month	For preceeding 1st Month
1	2	3	4	5	6
1	Quantity of Limestone supplied by limestone Supply Company	(MMT)			
2	Adjustment (+/-) in quantity supplied made by Limestone supply Company	(MMT)			
3	Limestone supplied by Limestone supply Company (1+2)	(MMT)			
4	Amount charged by limestone Supply Company	(Rs.)			
5	Adjustment (+/-) in amount charged made by limestone Supply Company	(Rs.)			
6	Total amount Charged (4+5)	(Rs.)		NA	
7	Transportation charges by rail/ship/road transport	( Rs.)			
8	Adjustment (+/-) in amount charged made by Railways/Transport Company	( Rs.)			
9	Demurrage Charges, if any	( Rs.)			
10	Total Transportation Charges (7+8+9)	(Rs.)			
11	<b>Total amount Charged for Limestone supplied including Transportation (6+10)</b>	<b>(Rs.)</b>			

## Form G 5.3

## Energy Charges for Thermal Generation

Name of the Company  
Name of the Power Station :RVUN  
DCCPP

S.No.	Particulars	Units	FY 18-19	FY 19-20		FY 20-21	Remarks
			Approved By Commission	5	April to March (Actual unaudited)	Anticipated	
1	2	3	4		6	7	8
<b>1</b>	<b>Operational Parameters</b>						
1.1	Total Capacity	MW	330		330	330	
1.2	Availability	%	81.06		93.09	70.00	
1.3	PLF	%	0.07		0.00	70.00	
1.4	Gross Generation	MU	20.93		0.00	2023.56	
1.5	Auxiliary Energy Consumption	%	1.76		0.00	2.90	
1.6	Auxiliary Energy Consumption	MU	-		0.00	58.68	
1.7	Net Generation	MU	18.78		0.00	1964.88	
1.8	Heat Rate	kcal/kWh	2493.85		0.00	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	Natural Gas	Kcal/SCM	9222.75		9202.00	9880.00	
2.1.2	Imported Coal	kcal/kg	0		0	0.00	
2.1.3	HFO	kcal/Ltr	0.00		0.00	0.00	
2.1.4	LDO	kcal/Ltr					
2.2	Landed Fuel Price per unit (Please specify the fuel)						
2.2.1	Natural Gas	Rs./SCM	28.08		18.30	25.43	
2.2.2	Imported Coal	Rs/MT	0.00		0.00	0.00	
2.2.3	HFO	Rs/KL					
2.2.4	LDO	Rs/KL	0.00		0.00	0.00	
<b>3</b>	<b>Fuel Consumption and Heat Contribution (for each fuel separately)</b>						
3.1	Specific Fuel Consumption						
3.1.1	Natural Gas	SCM/kWh	0.27		0.00	0.20	
3.1.2	Imported Coal	Kg/kWh	0.00		0.00	0	
3.1.3	HFO	ml/kWh	0.00		0.00	0.00	
3.1.4	LDO	ml/kWh					
3.2	Total Fuel Consumption						
3.2.1	Natural Gas	SCM	-		0	408398647.77	
3.2.2	Imported Coal	MT	0		0	0	
3.2.3	HFO	KL	0		0	0.00	
3.2.4	LDO	KL					
<b>3.3</b>	<b>Heat Content (each fuel separately)</b>						
3.3.1	Natural Gas	Million kcal	-		0.00	4034978.64	
3.3.2	Imported Coal	Million kcal	0.00		0.00	0.00	
3.3.3	HFO	Million kcal	0.00		0.00	0.00	
3.3.4	LDO	Million kcal				0.00	
	Total Heat Content		-		0.00	4034978.64	
4	Total Fuel Cost						
4.1.1	Natural Gas	Rs Crore	14.50		0.00	1038.71	
4.1.2	Imported Coal	Rs Crore	0.00		0.00	0	
4.1.3	HFO	Rs Crore	0.00		0.00	0.00	
4.1.4	LDO	Rs Crore					
	Total Fuel Cost	Rs Crore	14.50		0.00	1038.71	
6	Other Charges and Adjustments						
6.1.1	Other Charges (pl. specify details)	Rs Crore	0.01		0	0	
6.1.2	Other Adjustments (Pl. specify details)	Rs Crore					
	Total Other Charges and Adjustments	Rs Crore	0.01		0.00	0.00	
7	Total Cost (4+5+6)	Rs Crore	14.51		0.00	1038.71	
8	Cost of Generation per unit (at Generation Terminal) (7/1.4)	Rs/kWh	-		0.00	5.13	
9	Energy Charge per unit (ex-bus) (7/1.7)	Rs/kWh	7.73		0.00	5.29	

Form G 6.1  
Fixed assets & provisions for depreciation

Name of the Company  
Name of the Power Station :  
FY 18-19

RVUN  
DCCPP

S.NO.	ASSETS GROUP	RATE OF DEPRICIATION	Gross Fixed Assets				Provisions for Depreciation				Net Fixed Assets	
			At the beginning of the year	Additions during the year	Adjust. & Deductions	At the end of the year	Cummulative up to the beginning of the year	Additions during the year	Adjust. During the Year	Cummulative at the end of the year	At the Beginning of the Year	At the End of the Year
1	Land & land rights	0	2.86	0.00	0.00	2.86	0.00	0.00	0.00	0.00	2.86	2.86
2	Building & Civil Works of power plant	3.34	39.11	0.00	0.00	39.11	12.92	1.31	0.00	14.23	26.19	24.88
3	Hydraulic Works	5.28	14.96	0.00	0.00	14.96	7.81	0.79	0.00	8.60	7.15	6.36
4	Other Civil Works	3.34	2.86	0.00	0.00	2.86	0.95	0.10	0.00	1.04	1.92	1.82
5	Plant & Machinery	5.28	1011.09	0.00	0.00	1011.09	528.11	53.39	0.00	581.50	482.98	429.60
6	lines & Cable Net Work	5.28	2.45	0.00	0.00	2.45	1.28	0.13	0.00	1.41	1.17	1.04
7	Vechiles	6.33	0.12	0.00	0.00	0.12	0.08	0.01	0.00	0.08	0.05	0.04
8	Furniture & fixtures	6.33	0.80	0.00	0.00	0.80	0.50	0.05	0.00	0.55	0.30	0.25
9	Office Equipments	6.33	0.12	0.00	0.00	0.12	0.08	0.01	0.00	0.08	0.05	0.04
10	Capital spares	5.28	40.61	0.00	0.00	40.61	21.21	2.14	0.00	23.36	19.40	17.26
11	IT Equipments	15.00										
12	IT/ SCADA Software	9.00										
13	Any other items	5.28		0.00	0.00		0.00		0.00	0.00	0.00	0.00
	<b>TOTAL</b>		<b>1115.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1115.00</b>	<b>572.94</b>	<b>57.92</b>	<b>0.00</b>	<b>630.86</b>	<b>542.06</b>	<b>484.14</b>

DCCPP  
FY 19-20

S.NO.	ASSETS GROUP	RATE OF DEPRICIATION	Gross Fixed Assets				Provisions for Depreciation				Net Fixed Assets	
			At the beginning of the year	Additions during the year	Adjust. & Deductions	At the end of the year	Cummulative up to the beginning of the year	Additions during the year	Adjust. During the Year	Cummulative at the end of the year	At the Beginning of the Year	At the End of the Year
1	Land & land rights	0	2.86	0.00	0.00	2.86	0.00	0.00	0.00	0.00	2.86	2.86
2	Building & Civil Works of power plant	3.34	39.11	0.00	0.00	39.11	14.23	1.31	0.00	15.54	24.88	23.58
3	Hydraulic Works	5.28	14.96	0.00	0.00	14.96	8.60	0.79	0.00	9.39	6.36	5.57
4	Other Civil Works	3.34	2.86	0.00	0.00	2.86	1.04	0.10	0.00	1.14	1.82	1.73
5	Plant & Machinery	5.28	1011.09	0.00	0.00	1011.09	581.50	53.39	0.00	634.88	429.60	376.21
6	lines & Cable Net Work	5.28	2.45	0.00	0.00	2.45	1.41	0.13	0.00	1.54	1.04	0.91
7	Vechiles	6.33	0.12	0.00	0.00	0.12	0.08	0.01	0.00	0.09	0.04	0.03
8	Furniture & fixtures	6.33	0.80	0.00	0.00	0.80	0.55	0.05	0.00	0.60	0.25	0.20
9	Office Equipments	6.33	0.12	0.00	0.00	0.12	0.08	0.01	0.00	0.09	0.04	0.03
10	Capital spares	5.28	40.61	0.00	0.00	40.61	23.36	2.14	0.00	25.50	17.26	15.11
11	IT Equipments	15.00										
12	IT/ SCADA Software	9.00										
13	Any other items	5.28	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
	<b>TOTAL</b>		<b>1115.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1115.00</b>	<b>630.86</b>	<b>57.92</b>	<b>0.00</b>	<b>688.78</b>	<b>484.14</b>	<b>426.22</b>

DCCPP  
FY 20-21

S.NO.	ASSETS GROUP	RATE OF DEPRICIATION	Gross Fixed Assets				Provisions for Depreciation				Net Fixed Assets	
			At the beginning of the year	Additions during the year	Adjust. & Deductions	At the end of the year	Cummulative up to the beginning of the year	Additions during the year	Adjust. During the Year	Cummulative at the end of the year	At the Beginning of the Year	At the End of the Year
1	Land & land rights	0	2.86	0.00	0.00	2.86	0.00					
2	Building & Civil Works of power plant	3.34	39.11	0.00	0.00	39.11	15.54					
3	Hydraulic Works	5.28	14.96	0.00	0.00	14.96	9.39					
4	Other Civil Works	3.34	2.86	0.00	0.00	2.86	1.14					
5	Plant & Machinery	5.28	1011.09	0.00	0.00	1011.09	634.88					
6	lines & Cable Net Work	5.28	2.45	0.00	0.00	2.45	1.54					
7	Vechiles	6.33	0.12	0.00	0.00	0.12	0.09					
8	Furniture & fixtures	6.33	0.80	0.00	0.00	0.80	0.60					
9	Office Equipments	6.33	0.12	0.00	0.00	0.12	0.09					
10	Capital spares	5.28	40.61	0.00	0.00	40.61	25.50					
11	IT Equipments	15.00										
12	IT/ SCADA Software	9.00										
13	Any other items	5.28										
	<b>TOTAL</b>		<b>1115.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1115.00</b>	<b>688.78</b>	24.21	<b>0.00</b>	<b>712.99</b>	426.22	402.01

## Form G 6.2a

### Calculation of Interest on Normative Loan

Name of the Company  
Name of the Power Station :

RVUN  
DCCPP

(Rs. Crore)

S. No.	Particular	FY 18-19		FY 19-20		FY 20-21		Remarks	
		Approved By Commission		April to March	Anticipated				
		Term Loan	Transitional Loan		Term Loan	Transitional Loan	Term Loan		Transitional Loan
		3	4	5	6	7	8	9	10
1	Gross Normative loan - Opening								
2	Cumulative repayment of Normative Loan upto previous year								
3	Net Normative loan - Opening	145.59	21.20		87.67	21.20	29.75708423	21.2	
4	Increase/Decrease due to ACE/de-capitalization during the Year	0.00	0.00		0.00	0.00	0.00	0	
5	Repayments of Normative Loan during the year	57.92	0.00		57.92	0	24.21	0.00	
6	Net Normative loan - Closing	87.67	21.20		29.76	21.20	5.55	21.20	
7	Gross Normative loan - Closing								
8	Average Net Normative Loan	116.63	21.20		58.72	21.20	17.65	21.20	
9	Weighted average Rate of Interest of actual Loans (Form 6.2b)	10.75	9.90		10.75	9.90	10.75	9.90	
10	Interest on Normative loan	12.54	2.10		6.31	2.10	1.90	2.10	
11	Finance Charges	0.07	0.00		0.00	0.00	0.00	0.00	
12	Total	14.70			8.41		4.00		

Form G 6.2b

Calculation of Weighted Average Rate of Interest on Actual Loans

Name of the Company  
Name of the Power Station :

RVUN  
DCCPP

(Rs. Crore)

S. No.	Particular	FY 18-19	FY 19-20	FY 20-21	Remarks
		Approved By Commission	Total	n+1	
1	2	3	4	5	6
1	<b>Loan 1</b>				
i.	Gross Loan -Opening				
ii.	Cumulative repayments of Loans upto previous year				
iii.	Net loan-Opening				
iv.	Add: Drawal(s) during the Year				
v.	Less: Repayment (s) of Loans during the year				
vi.	Net loan - Closing				
vii.	Average Net Loan				
viii.	Rate of Interest on Loan on annual basis				
ix.	Interest on loan				
x.	Loan repayment effective from (date to be indicated)				
2	<b>Loan 2</b>				
i.	Gross Loan -Opening				
ii.	Cumulative repayments of Loans upto previous year				
iii.	Net loan-Opening				
iv.	Add: Drawal(s) during the Year				
v.	Less: Repayment (s) of Loans during the year				
vi.	Net loan - Closing				
vii.	Average Net Loan				
viii.	Rate of Interest on Loan on annual basis				
ix.	Interest on loan				
x.	Loan repayment effective from (date to be indicated)				
3	<b>Loan 3</b>				
..	...				
..	...				
4	<b>Total Loan</b>				
i.	Gross Loan -Opening				
ii.	Cumulative repayments of Loans upto previous year				
iii.	Net loan-Opening				
iv.	Add: Drawal(s) during the Year				
v.	Less: Repayment (s) of Loans during the year				
vi.	Net loan - Closing				
vii.	Average Net Loan				
viii.	Interest on Loan				
ix.	Weighted average Rate of Interest on Loans				

Form G 6.3

Consolidated report on additions to Fixed Assets during the year

Name of the Company           RVUN  
Name of the Power Station :   DCCPP

Rs. Crore

S.No.	Asset Description	Asset Code	FY 18-19							FY 19-20							FY 20-21						
			Approved By Commission							(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
4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1	Land & land rights						0.00															0.00	
2	Building & Civil Works of power plant						0.00															0.00	
3	Hydraulic Works						0.00															0.00	
4	Other Civil Works						0.00															0.00	
5	Plant & Machinery						0.00															0.00	
6	lines & Cable Net Work						0.00															0.00	
7	Vehicles						0.00															0.00	
8	Furniture & fixtures						0.00															0.00	
9	Office Equipments						0.00															0.00	
10	Capital spares						0.00															0.00	
11	IT Equipments						0.00															0.00	
12	IT/ SCADA Software						0.00															0.00	
13	Any other items						0.00															0.00	
	Total						0.00															0.00	



Form G 6.4

RETURN ON EQUITY

Name of the Company

RVUN

Name of the Power Station :

DCCPP

Rs. Crore

S.No.	Particulars	Reference	FY 18-19		FY 19-20	FY 20-21	Remarks
			Approved By Commission			(Anticipated)	
1	2	3	4	5	6	7	8
1	Equity at the beginning of the year		347.00		347.00	347.00	
2	Capitalisation		0.00		0.00	0.00	
3	Equity portion of capitalisation		0.00		0.00	0	
4	Equity at the end of the year		347.00		347.00	347.00	
	<b>Return Computation</b>						
5	Return on Equity at the beginning of the year	15%*(1)	53.79		52.05	52.05	
6	Return on Equity portion of capitalisation (on pro-rata basis)	15%*(3)/(n/12)	0.00		0.00	0.00	
7	<b>Total Return on Equity</b>	(5)+(6)	53.79		52.05	52.05	

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

Name of the Petitioner: RVUN  
 Name of the Power Station: DCCPP

(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			0.00			0.00		
2	Building & Civil Works of power plant	0.00			0.00			0.00		
3	Hydraulic Works	0.00			0.00			0.00		
4	Other Civil Works	0.00			0.00			0.00		
5	Plant & Machinery	0.00			0.00			0.00		
6	lines & Cable Net Work	0.00			0.00			0.00		
7	Vehicles	0.00			0.00			0.00		
8	Furniture & fixtures	0.00			0.00			0.00		
9	Office Equipments	0.00			0.00			0.00		
10	Capital spares	0.00			0.00			0.00		
	Total	0.00			0.00			0.00		

Form G 6.6

Interest on Working Capital

Name of the Company  
Name of the Power Station

RVUN  
DCCPP

Rs. Crore

S. No.	Particulars	FY 18-19	FY 19-20		FY 20-21	Remarks
		Approved By Commission		April to March (Actual unaudited)	(Anticipated)	
1	2	3	4	5	6	7
1	Gas Stock (as per norms)			33.69	43.28	
2	Secondary fuel stock (as per norms)			0.00	0.00	
3	O & M expenses (as per norms)			4.16	4.31	
4	Maintenance Spares (as per norms)			14.99	15.51	
5	Receivables (as per norms)			125.69	150.30	
6	limestone, if applicable (as per norms)					
	<b>Total Working Capital</b>			<b>178.53</b>	<b>213.40</b>	
	Rate of Interest			11.25	11.39	
	<b>Interest on Working Capital</b>		<b>39.05</b>	<b>20.08</b>	<b>24.30</b>	

## Form G 6.7

## Insurance Expenses

Name of the Company  
Name of the Power Station :

RVUN  
DCCPP

Rs. Crore

S. No.	Particulars	FY 18-19	FY 19-20		FY 20-21	Remarks
		Approved By Commission		April to March (Actual unaudited)	Anticipated	
1	2	3	4	5	6	7
	<b>Insurance Expenses</b>					
a)	Provision made/ proposed for the year					
b)	Actual insurance expenses incurred	0.99		1.41	1.48	
c)	Average Net Fixed Assets	513.10		455.18	414.12	
d)	Normative Insurance charges	1.03		0.91	0.83	

## Tax on R.O.E.

Name of the Petitioner:

RVUN

Name of the Power Station :

DCCPP

Rs.

S. No.	Particulars	FY 18-19	FY 19-20		FY 20-21	Remarks
		Approved By Commission		April to March (Actual unaudited)	Anticipated	
1	2	3	4	5	6	7
A)	Advance Tax assessed & deposited on----					
a)	for Quarter I & deposited on 15 th June.					
b)	for Quarter II & deposited on 15 th Sept.					
c)	for Quarter III & deposited on 15 th Dec.					
d)	for Quarter IV & deposited on 15 th March.					
	Total---(A)	0		0	0	
B)	Deffered tax liability before 01.04.2009					

Form G 7.1

Proposed improvement in performance

Name of the Company  
Name of the Power Station :

RVUN  
DCCPP

Rs. Crore

S.No.	Particulars	FY 18-19	FY 19-20		FY 20-21	Remarks
		Approved By Commission	April to March (Actual unaudited)	0	Anticipated	
1	2	3		4	5	6
1	Plant load factor %	0.07	0.00	0.00	70.00	
2	Auxiliary consumption %	1.76	0.00	0.00	2.90	
3	Specific fuel consumption					
(I)	coal, kg / kWh	0.27	0.00	0.00	0.20	
ii)	gas, SCM / kWh					
(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	2493.85	0.00	0.00	1994.00	
5	Annual Maintenance 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	81.06	93.09	0.00	70.00	

**Form G 8.1**

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

<b>Name of the Company :</b> RVUN	
<b>Name of the Power Station :</b> DCCPP	
<b>New Projects</b>	
<b>Capital Cost Estimates</b>	
Board of Director/ Agency approving the Capital cost estimates:	
Date of approval of the Capital cost estimates:	
	<b>Present Day Cost</b>
	<b>Completed Cost</b>
Price level of approved estimates	As of End of _____ Qtr. Of the year _____ As on Scheduled COD of the Station
Foreign Exchange rate considered for the Capital cost estimates	
<b>Capital Cost excluding IDC &amp; FC</b>	
Foreign Component, if any (In Million US \$ or the relevant Currency)	<b>Applicable for determination of capital cost</b>
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	

## Form G 8.2

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

Name of the Company :

RVUN

Name of the Power Station :

DCCPP

S.No.	Break Down	Cost in Rs. Crores			Variation (Rs. Cr.)	Reasons for Variation	Rs. Crore.
		As per original Estimates	Actual Expenditure as on COD	Liabilities/Provisions			Admitted Cost (Rs. Cr.)
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	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	<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	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	<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						



Form G 8.3

Break-up of Construction / Supply / Service packages

Name of the Company : RVUN  
 Name of the Power Station : DCCPP

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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25																	
26																	
27																	
28																	
29																	
30																	
31																	
32																	

**Form G 8.4**

**Details of Project Specific Loans**

Name of the Company RVUN  
 Name of the Power Station DCCPP  
 Commercial Operation Date

Year (n-1)\*

Rs. Crore

Particulars	Package1	Package2	Package3	Package4	Package5	Package6
1	2	3	4	5	6	7
Source of Loan <sup>1</sup>						
Currency <sup>2</sup>						
Amount of Loan sanctioned						
Amount of Gross Loan drawn upto <b>previos year/during current/ensuing year/COD</b> <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	<b>Applicable for determination of capital cost</b>					
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>						



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

Name of the Company RVUN  
Name of the Power Station DCCPP

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				Applicable for determination of capital cost								
	IDC												
	Financing charges												
1.1.3	Foreign Loan 3												
	Draw down Amount												
	IDC												
	Financing charges												
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	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												