

Petition for Tariff
&
Aggregate Revenue Requirement (ARR)
for
FY 2015-16
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

November-2014

Contents

A1: BACKGROUND.....	7
A2: GENERATION FORECAST	7
A3: DCCPP ANNUAL CAPACITY (FIXED) CHARGES FOR 2015-16	7
DEPRECIATION:-	7
INTEREST ON LOANS:-.....	8
INTEREST ON WORKING CAPITAL	8
OPERATION & MAINTENANCE EXPENSES	8
RECOVERY OF ARR & TARIFF PETITION FEES	9
INSURANCE CHARGES	9
RETURN ON EQUITY AND TAX THEREON	9
NON-TARIFF INCOME	10
A4: DCCPP ESTIMATED CAPACITY CHARGES (FIXED)	10
A5: VARIABLE CHARGES	11
A6: ESTIMATED ARR FOR DCCPP	11
A7: DCCPP ESTIMATED TARIFF	12
A8: FUEL COST ADJUSTMENT.....	12
A9: RESPONDENTS:-	12
A10: PRAYER	12

LIST OF TABLES

TABLE 1: GROSS GENERATION, PLF & EX-BUS ENERGY SALE FROM DCCPP STATION	7
TABLE 2: DEPRECIATION (RS. IN CRORE)	8
TABLE 3: INTEREST ON LOANS (RS. IN CRORE)	8
TABLE 4: INTEREST ON WORKING CAPITAL (RS. IN CRORE)	8
TABLE 5: O & M EXPENSES (RS. IN CRORE)	9
TABLE 6: RECOVERY OF ARR & TARIFF PETITION FEES (RS. IN CRORE).....	9
TABLE 7: INSURANCE CHARGES (RS. IN CRORE)	9
TABLE 8: ROE AND TAX.....	10
TABLE 9: NON-TARIFF INCOME (RS. IN CRORE).....	10
TABLE 10: NET CAPACITY CHARGES FOR DCCPP (RS. IN CRORE)	10
TABLE 11: VARIABLE COST (RS. IN CRORES)	11
TABLE 12: DCCPP ARR FOR DCCPP (RS. IN CRORES).....	11
TABLE 13: DCCPP ESTIMATED TARIFF	12

Form No.	Particulars	Page No.
Form G 1.1	Summary of Tariff proposal	13
Form G 1.2	Aggregate Revenue Requirement	14
Form G 2.1	Plant characteristics	15
Form G 2.2	Operational Parameters - Generation	16
Form G 3.1	Revenue from sale of power	17
Form G 3.2	Non-tariff income	18
Form G 3.3	Revenue Subsidies & Grants	19
Form G 3.4	Capital Subsidies and Grants	20
Form G 4.1	O&M Expenses	21
Form G 5.1	Detail./ Information in respect of fuel for computation of energy charges (Gas)	22
Form G 5.3	Energy Charges for Thermal Generation	23
Form G 6.1	Fixed assets & provisions for depreciation	24
Form G 6.2	Loan Repayment & Interest liability	25
Form G 6.3	Details of Project Specific Loans	26
Form G 6.4	Consolidated report on additions to Fixed Assets during the year	27
Form G 6.5	Abstract of Capital Cost Estimates and Schedule of Commissioning for the New projects	28
Form G 6.6	Break-up of Capital Cost for Coal / Lignite / gas / liquid fuel based projects	29
Form G 6.7	Break-up of Construction / Supply / Service packages	30
Form G 6.8	Draw Down Schedule for Calculation of IDC & Financing Charges	31
Form G 6.9	Return on Equity	32
Form G 6.10	Statement of Additional Capitalisation after COD and Details for Financing	33
Form G 6.11	Interest on Working capital	34
Form G 6.12	Insurance Expenses	35
Form G 6.13	Tax on R.O.E.	36
Form G 7.1	Proposed improvement in performance	37

Definitions

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

ABBREVIATIONS

ARR	Aggregate Revenue Requirement
Ajmer Discom	Ajmer Vidyut Vitran Nigam Limited
CSR	Corporate Social Responsibility
FRP	Financial Restructuring Plan
FY	Financial Year
FY – 14	Financial Year 2013-2014
FY – 15	Financial Year 2014-2015
FY – 16	Financial Year 2015-2016
GCV	Gross Calorific Value
GFA	Gross Fixed Assets
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

A1: BACKGROUND

- 1.1 Rajasthan Rajya Vidyut Utpadan Nigam Ltd (RVUN) was incorporated under the Companies Act 1956, as one of the five successor companies of erstwhile Rajasthan State Electricity Board (RSEB) to take over the electricity generation business in the state of Rajasthan. The existing power stations and those under commissioning in the state sector were transferred to RVUN as per the Rajasthan Power Sector Reforms Transfer Scheme, 2000 notified by State Government provisionally on 19th July 2000 and finally on 18th January 2002.
- 1.2 From 1st April 2004 onwards, RVPN is no longer responsible for the bulk purchase of power in Rajasthan. The capacity allocated to RVPN from RVUN generating stations has been reallocated to the three Discoms (Jaipur, Ajmer and Jodhpur) in the ratio of 39:29:32(from October 2011) or as modified by competent authority from time to time. RVUN has entered into Long Term Power supply-Purchase Agreements (PPA) in respect of existing and future power projects for 25 Years with the three Discoms on 23.06.2004, 28.09.06 , 07.06.2007 and further supplementary PPA was signed on date 18.5.10 which includes DCCPP (330 MW).
- 1.1 RVUN have to file its petition for determination of ARR and Tariff Petition for 2015-16 in accordance with provision of RERC tariff regulation 2014. Accordingly this petition is being submitted for DCCPP (330 MW) for FY 2015-16 before RERC for ARR and tariff determination. The figures for FY 2013-14, FY 2014-15 and 2015-16 are un-audited and estimated.

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 station of RVUN for the period FY 2013-14, FY 2014-15 and FY 2015-16 are as shown in table below:

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

Particular	FY 13-14	FY 14-15	FY 15-16
Capacity (MW)	330	330	330.00
PLF (%)	33.79%	55.14%	80.00%
Gross generation (MU)	976.80	1,594.02	2,318.98
Aux Cons. (%)	4.46%	3.71%	3.00%
Net Generation (MU)	933.24	1,534.91	2,249.41

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

FIXED CHARGES

A3: DCCPP ANNUAL CAPACITY (FIXED) CHARGES FOR 2015-16

Depreciation:-

- 3.1 Depreciation of DCCPP FY 2013-14 has been calculated as per clause No.23 of RERC Tariff Regulations 2009 and for FY 2014-15 & FY 2015-16 as per clause No. 22 of RERC Tariff Regulations 2014. Estimated figures of depreciation for FY 2013-14, FY 2014-15 and FY 2015-16 are summarised in table below:

Table 2: Depreciation (Rs. in Crore)

Station	FY 13-14	FY 14-15	FY 15-16
Depreciation	56.60	56.55	56.64

Interest on Loans:-

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

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

Station	FY 13-14	FY 14-15	FY 15-16
DCCPP			
Interest (Term Loan + Transitional Loan) and finance charges	55.32	48.26	41.19
Total	55.32	48.26	41.19

Interest on working Capital

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

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

Station	FY 13-14	FY 14-15	FY 15-16
DCCPP			
Interest on Working Capital	11.07	15.87	19.52

Operation & Maintenance Expenses

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

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

Station	FY 13-14	FY 14-15	FY 15-16
DCCPP			
Operation and Maintenance	37.60	39.80	42.13

Recovery of ARR & Tariff Petition Fees

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

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

Station	FY 13-14	FY 14-15	FY 15-16
DCCPP			
Petition Fee	0.17	0.17	0.17

Insurance Charges

- 3.10 RVUN is claiming the insurance charges for DCCPP for the year 2015-16 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 13-14	FY 14-15	FY 15-16
DCCPP			
Insurance Charges	1.24	1.30	1.32

Return on Equity and Tax thereon

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

Table 8: ROE and Tax

Station	FY 13-14	FY 14-15	FY 15-16
DCCPP			
ROE	0.00	53.79	53.79
Tax on ROE	0.00	14.26	14.26

NON-TARIFF INCOME

3.14 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)

3.15 Estimated figures of Non Tariff Income for FY 2013-14, FY 2014-15 and FY 2015-16 are summarised in table below:

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

Station	FY 13-14	FY 14-15	FY 15-16
DCCPP			
Non Tariff Income	0.89	0.93	0.94

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

A4: DCCPP ESTIMATED CAPACITY CHARGES (FIXED)

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

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

Station	FY 13-14	FY 14-15	FY 15-16
Fixed Charge			
O & M Expenses	37.60	39.80	42.13
Depreciation	56.60	56.55	56.64
Interest on Term Loans & Fin. Charges + Interest on Transitional Loan	55.32	48.26	41.19
Interest on Working Capital Loans	11.07	15.87	19.52
Recovery of ARR & Tariff Petition Fees	0.165	0.165	0.165
ROE	0.00	53.79	53.79
Tax on ROE	0.00	14.26	14.26
Insurance Charges	1.24	1.30	1.32
Total Fixed Charge	161.99	229.99	229.01
Less: Non-Tariff Income	0.89	0.93	0.94
Net Fixed Charge	161.10	229.06	228.07

A5: VARIABLE CHARGES

- 5.1 The Tariff Regulations, 2014 allows SHR 1950 kcal/kWh. Aux. Consumption is considered as 3.00 % for DCCPP. These figures have considered in the calculations of variable charges for FY 2015-16.

For estimates of FY15, the Gross calorific value of the gas/oil and the average rate of gas/oil supply have been calculated on the basis of receipts of previous three months during April, May and June of 2014 as per Commission's formats. For FY 2015-16, GCV of Natural Gas has been considered as 9138.59 KCal/SCM and the price of Natural Gas has been taken as Rs. 14.03 per SCM.

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

Table 11: Variable Cost (Rs. in Crores)

Particular		FY 13-14	FY 14-15	FY 15-16
Total Capacity	MW	330	330	330
Availability	%	46.75%	70%	80.00%
PLF	%	33.79%	55.14%	80.00%
Gross Generation	MU	976.80132	1594.02	2318.976
Auxiliary Energy Consumption	%	4.46%	3.71%	3.00%
Auxiliary Energy Consumption	MU	43.57	59.11	69.57
Net Generation	MU	933.24	1534.91	2249.41
Heat Rate	kcal/kWh	2275.00	2198.05	1950.00
Gross Calorific Value				
Fuel - 1 (Natural Gas)	kCal/SCM	9195.95	9120.54	9138.59
Landed Fuel Price per unit)				
Fuel - 1 (Natural Gas)	Rs/ SCM	14.36	14.07	14.03
Specific Fuel Consumption				
Fuel - 1 (Natural Gas)	SCM/kwh	0.25	0.25	0.21
Total Fuel Consumption				
Fuel - 1 (Natural Gas)	SCM	241660646.57	384158807.84	494825098.27
Heat Content (each fuel separately)				
Fuel - 1 (Natural Gas)	Million kcal	2222299.22	3503736.43	4522003.20
Total Cost	Rs Crore	347.02	540.51	694.24
Rs. Per unit /Sent Out	Per unit	3.719	3.521	3.086

A6: ESTIMATED ARR FOR DCCPP

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

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

Station	FY 13-14	FY 14-15	FY 15-16
Capacity (Fixed Charges)	161.10	229.06	228.07
Variable Cost	347.02	540.51	694.24
Aggregate Revenue Requirement	508.13	769.57	922.30

A7: DCCPP ESTIMATED TARIFF

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

Table 13: DCCPP ESTIMTED TARIFF

	FY 13-14	FY 14-15	FY 15-16
Ex-Bus Generation (MU)	933.24	1534.91	2249.41
Capacity(fixed) Charges	161.10	229.06	228.07
Variable Cost	347.02	540.51	694.24
Rate of Fixed Charge(Rs/kWh)	1.726	1.492	1.014
Rate of Variable Charge(Rs/kWh)	3.719	3.521	3.086
Rate of Sale of Energy (Rs/kWh)	5.445	5.014	4.100

A8: FUEL COST ADJUSTMENT

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

A9: RESPONDENTS:-

9.1 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-2015-16.
- ◆ To allow provisional tariff w.e.f. 1.4.15 for FY 2015-16 till final tariff order is issued as proposed in the petition
- ◆ And pass such other further orders as are deemed fit and proper in the facts and circumstances of the case

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

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

Form G 1.1

Summary of Tariff Proposal

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

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

(Rs. Crore)

S.No.	Particulars	Ref.of Form No	FY 2013-14	FY 2014-15		FY 2015-16	Remark	
			Actual/Audited	Approved by the Commission	Apr-Sep (Actual)	Oct-March (Estimated)		Anticipated
1	2	3	4	5	6	7	8	9
1	Capacity (Fixed) Charge							
1.1	Depreciation	6.1	56.60	58.19	28.27	28.27	56.64	
1.2	Interest on term Loan & Transitional Loan	6.2	55.32	56.07	24.13	24.13	41.19	
1.3	Return on Equity	6.9	0.00	0.00	26.89	26.89	53.79	
1.4	Interest on Working Capital	6.11	11.07	18.08	5.57	10.30	19.52	
1.5	O & M Expenses	4.1	37.60	0.00	19.90	19.90	42.13	
1.6	Insurance Charges	6.12	1.24	0.00	0.65	0.65	1.32	
1.7	Tax on ROE	6.13	0.00	0.00	7.13	7.13	14.26	
	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	0.89	0.00	0.47	0.47	0.94	
	Total (1)- Capacity (Fixed Charges)		161.10	132.51	112.16	116.89	228.07	
2	Total- Energy (variable) charges		347.02	650.67	155.82	384.69	694.24	
3	Units sold to Discoms (MU)		933.24	2243.26	416.36	1118.56	2249.41	
4	Rate of Fixed Charges. (1/3)		1.726	0.591	2.694	1.045	1.014	
5	Rate of Variable Charges.			2.901				
5.1	Rate of Energy Charge from Primary Fuel (REC) _p	5.1						
	(i) Natural Gas		3.719	2.901	3.742	3.439	3.086	
	(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) _s	5.1	0.000	0.000	0.000	0.000	0.000	
5.3	Total-(2) Rate of Energy Charge ex-bus(REC) ^{3A,3B,3C}	5.1	5.445	3.491	6.436	4.484	4.100	

¹ Details of calculations to be furnished.

Form G 1.2

Aggregate Revenue Requirement

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

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

(Rs. Crore)

S.No.	Particulars	Reference Form	FY 2013-14	FY 2014-15			FY 2015-16	Remarks
			Actual/Audited	Approved by the Commission	Apr-Sep (Actual)	Oct-March (Estimated)	Anticipated	
1	2	3	4	5	6	7	8	9
A	Receipts							
1	Revenue from Sale of Power (Tariff income)	3.1	508.13	783.18	267.98	501.58	922.30	
2	Non Tariff income		0.89	0.00	0.47	0.47	0.94	
3	Revenue Subsidies, Grants & Subvention from State Govt.							
	Total- (A)		509.02	783.18	268.45	502.05	923.25	
B	Expenditure							
1	Variable Costs, including Fuel Cost	5.1	347.02	650.67	155.82	384.69	694.24	
2	Depreciation	6.1	56.60	58.19	28.27	28.27	56.64	
3	Interest on term Loan & Finance charges	6.2	55.32	56.07	24.13	24.13	41.19	
4	Return on Equity	6.9	0.00	0.00	26.89	26.89	53.79	
5	Tax on ROE	6.15	0.00	0.00	7.13	7.13	14.26	
6	Interest on Working Capital	6.11	11.07	18.08	5.57	10.30	19.52	
7	O & M Expenses	4.1	37.60	0.00	19.90	19.90	42.13	
8	Insurance Charges	6.14	1.24	0.00	0.65	0.65	1.32	
9	Recovery of ARR and Tariff Petition Fee		0.17	0.17	0.08	0.08	0.17	
C	Total- (B) Expenditure		509.02	783.18	268.45	502.05	923.25	
D	A.R.R. (C-A.2)		508.13	783.18	267.98	501.58	922.30	

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

Basic characteristics of the plant ¹	Two gas turbine generator, One Steam Station						
Special Features of the Plant	Intake Well system at Chambal River about 10 KM from Plant						
Site Specific Features ²							
Special Technological Features ³	Frame 9E GT, Mark - VI control of GT						
Environmental Regulation related features ⁴	SO x / NO x control at exhaust of GT # 1 & 2						
Any other special features	Chemical treatment of water before drain out of the plant						
Fuel Details ⁵	Primary Fuel			Secondary Fuel		Alternate Fuels	
	Gas					Neptha / HSD / Lignite	
Details				Unit number			
	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 ⁶	Closed Circuit System						
Type of Boiler Feed Pump ⁷	NA	NA	Motor Driven				
Pressure (kg/cm ²)	NA	NA	75.22				
Temperature 0C							
-At Superheater Outlet	NA	NA	514+/- 5				
-At Reheater Outlet	NA	NA	NA				
Turbine Cycle heat Rate(Kcal/ Kwh)							
Boiler Efficiency (%)							
Guaranteed Design Heat rate (kCal/kWh) _s							
Conditions on which guaranteed							
% 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 Petitioner
Name of the Station/Unit:

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

S. No.	Particulars	Units	FY 2013-14	FY 2014-15			FY 2015-16	Remarks
			Audited/Actual	Approved by the Commission	Apr-Sep (Actual)	Oct-March (Estimated)	Anticipated	
1	2	3	4	5	6	7	8	9
2	Operational Parameters - Thermal							
2.1	Total Capacity	MW	330	330	330	330	330	
2.2	Availability	%	46.75%	0.00%	0.00%	0.00%	80.00%	
2.3	Plant Load Factor	%	33.79%	80.00%	24.24%	80.00%	80.00%	
2.4	Gross Generation	MU	976.801	2312.640	440.870	1153.152	2318.976	
2.5	Auxiliary Energy Consumption	%	4.46%	3.00%	5.56%	3.00%	3.00%	
2.6	Auxiliary Energy Consumption	MU	43.57	69.38	24.51	34.59	69.57	
2.7	Net Generation	MU	933.24	2243.26	416.36	1118.56	2249.41	
2.6	Heat Rate	Kcal/Kwh	2275.00	1950.00	2066.66	1950.00	1950.00	

Revenue from Sale of Power

Name of the Company
Name of the Power Station :

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

Year 2013-14

Rs. Crore										
S.No.	Particulars	Allocation (in %) /contract demand	Unit Sold (M.U.)	% of total Unit Sold	Demand/fix ed Charges @	Energy Charges @	Others , if any	Total (6+7+8)	Average rate/kW h (paise/k Wh)	Remarks
1	2	3	4	5	6	7	8	9	10	11
A)	Revenue from sale of Electricity(as per approved tariff)									
1	Dist.Licensee/trader/ consumers									
(a)	JVNL		363.96	39.0%	62.8304696	135.3		198.17	544.48	
(b)	AVNL		270.64	29.0%	46.7200928	100.6		147.36	544.48	
(c)	JDVNL		298.64	32.0%	51.5532058	111.0		162.60	544.48	
3	Gross Revenue From Sale of Power				161.103768	347.02				
6	Net revenue		933.24		161.10	347.02		508.13		

Year 2014-15

Rs. Crore										
S.No.	Particulars	Allocation	Unit Sold	% of	Demand/fix ed	Energy	Others	Total	Average	Remarks
1	2	3	4	5	6	7	8	9	10	11
A)	Revenue from sale of Electricity(as per approved tariff)									
1	Dist.Licensee/trader/ consumers									
(a)	JVNL		613.97	40.0%	91.622019	216.2		307.83	501.37	
(b)	AVNL		429.78	28.0%	64.1354133	151.3		215.48	501.37	
(c)	JDVNL		491.17	32.0%	73.2976152	173.0		246.26	501.37	
2	Other recoveries									
3	Gross Revenue From Sale of Power				229.05047	540.51				
4	less: i) State Levies Payable to Govt.									
5	Less: ii) Revenue during trial runs (capitalised)									
6	Net revenue		1534.91		229.06	540.51		769.57		

Year 2015-16

Rs. Crore										
S.No.	Particulars	Allocation	Unit Sold	% of	Demand/fix ed	Energy	Others	Total	Average	Remarks
1	2	3	4	5	6	7	8	9	10	11
A)	Revenue from sale of Electricity(as per approved tariff)									
1	Dist.Licensee/trader/ consumers									
(a)	JVNL		899.76	40.0%	91.2261285	277.7		368.92	410.02	
(b)	AVNL		629.83	28.0%	63.85829	194.4		258.25	410.02	
(c)	JDVNL		719.81	32.0%	72.9809028	222.2		295.14	410.02	
2	Other recoveries									
3	Gross Revenue From Sale of Power				228.065321	694.24				
4	less: i) State Levies Payable to Govt.									
5	Less: ii) Revenue during trial runs (capitalised)									
6	Net revenue		2249.41		228.07	694.24		922.30		

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 2013-14	FY 2014-15			FY 2015-16	Remarks
		(Actuals/audited)	Approved by the Commission	Apr-Sep (Actual)	Oct-March (Estimated)	(Anticipated)	
1	2	3	4	5	6	7	8
	Non-tariff income						
i.	Intt on Govt. Subsidy	0.00	0.00	0.00	0.00	0.00	
ii.	Conveyance Advance	0.00	0.00	0.00	0.00	0.00	
iii.	House Building Advance	0.00	0.00	0.00	0.00	0.00	
iv.	Income from F.D.R. with Banks	0.13	0.00	0.07	0.07	0.13	
v.	Sale of scrap	0.06	0.00	0.03	0.03	0.06	
vi.	MISCELLANEOUS RECEIPTS	0.70	0.00	0.37	0.37	0.75	
	Total non-tariff income	0.89	0.00	0.47	0.47	0.94	

REVENUE SUBSIDIES & 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)	Revenue Subsidies & Grants	N.A.					
1	Subvention from State Government towards sale of electricity						
2	State Govt. Grant against addl. Intt. Liability on Company						
3	Any Other item						
	Total						

Capital Subsidies and Grants

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

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

Rs. Crore

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

Form G 4.1

O&M Expenses

Name of the Petitioner:

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.

Name of the Station/Unit:

Dholpur Combined Cycle Power Project

(Rs. Crore)

S.No.	Particulars	FY 13-14	FY 14-15			FY 15-16
		(Actuals/audited)	Approved by the Commission	Apr-Sep (Actual)	Oct-March (Estimated)	(Anticipated)
1	2	3	4	5	6	7
1	O&M Expense norms (Rs. per MW)					0.1276551
2	Total Capacity in MW					330
3	O&M expense					42.13
4	Special O&M expense for Water pipe lines>50 km					
a	Details of Water pumping Stations beyond 50 K.M. from Water intake point					
b	<u>Pumping Station No.1 :-</u>					
b.1	Power consumption Cost					
b.2	Repair / Maintenance / Employee / other Cost					
b.3	Sub total (b)					
c	<u>Pumping Station No.2 :-</u>					
	and so on					
d	Total (4) Special O&M Expenses					
5	Total O&M expenses	37.60	0.00	19.90	19.90	42.13

Form G 5.1
DHOLPUR COMBINED CYCLE POWER PROJECT, RVUNL, DHOLPUR
Details/Information to be Submitted in respect of Fuel for Computation of Energy Charges for FPA

S.No	Month (F.Y. 14-15)	Unit	April	May	June	Total (Apr.- June)	July	August	September	Total (July- Sept.)
			Natural GAS	Natural	Natural	Natural	Natural	Natural	Natural	Natural GAS
1	2	3	4	5	6	7	8	9	10	11
1	Quantity of GAS in stock at the beginning of the month	(SCM)	24063068	29525240	20023756	73612063	18405593	22590583	44975405	85971580
2	Quantity of Gas supplied by M/s GAIL & RIL	(SCM)	24063068	29525240	20023756	73612063	18405593	22590583	44975405	85971580
3	Adjustment (+/-) in quantity supplied made by Gas	(SCM)	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
4	Gas supplied by M/s GAIL & RIL (2+3)	(SCM)	24063068	29525240	20023756	73612063	18405593	22590583	44975405	85971580
5	Normative Transit & Handling Losses (For coal based	(SCM)	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
6	Net GAS Supplied (4-5)	(SCM)	24063068	29525240	20023756	73612063	18405593	22590583	44975405	85971580
7	Total Gas(Receipts & Opening Stock) (1)+(6)	(SCM)	24063068	29525240	20023756	73612063	18405593	22590583	44975405	85971580
8	GAS burnt/consumed	(SCM)	22153795	22258761	19224055	63636611	12660336	18195971	13515176	44371483
9	GAS in stock at the end of the month	(SCM)	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
10	Value of GAS in stock	(Rs.)								
11	Amount charged by M/s GAIL & RIL	(Rs.)	280760918	277648073	244592765	803001756	173919957	262127489	188383616	624431062
12	Adjustment (+/-) in amount charged made by Gas Company	(Rs.)	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
13	Total amount Charged (11+12)	(Rs.)	280760918	277648073	244592765	803001756	173919957	262127489	188383616	624431062
14	Transportation charges by M/s GAIL & RIL	(Rs.)	26278904	26437088	23164109	75880101	0	0	0	0
15	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
16	Demurrage Charges, if any	(Rs.)	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
18	Total Transportation Charges (14+/-15+16+17)	(Rs.)	26278904	26437088	23164109	75880101				0
19	Total amount Charged for GAS supplied including Transportation (13+18)	(Rs.)	307039822	304085161	267756875	878881858	173919957	262127489	188383616	624431062
20	Average cost of GAS (Opening stock + receipts) (19/7)	(Rs/S	13.86	13.66	13.93	13.81	13.74	14.41	13.94	14.07
21	Cost of GAS in stock at the end of the month (20)x(9)	(Rs.)	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
22	Weighted average GCV of GAS as fired	(kCal/	9141.1714	9158.6691	9291.5965	9192.7338	9126.3327	9127.4735	9105.7844	9120.5417

Form G 5.3
Energy Charges for Thermal Generation

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

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

S.No.	Particulars	Units	FY 2013-14	FY 2014-15			FY 2015-16	Remarks
			April-March (Audited)	Approved by the Commission	Apr-Sep (Actual)	Oct-March (Estimated)	Anticipated	
1	2	3	4	5	6	7	8	9
1	Operational Parameters							
1.1	Total Capacity	MW	330	330	330	330	330.00	
1.2	Availability	%	46.75%				80.00%	
1.3	PLF	%	33.79%	80.00%	24.24%	80.00%	80.00%	
1.4	Gross Generation	MU	976.80	2312.64	440.87	1153.15	2318.98	
1.5	Auxiliary Energy Consumption	%	4.46%	3.00%	5.56%	3.00%	3.00%	
1.6	Auxiliary Energy Consumption	MU	43.57	69.38	24.51	34.59	69.57	
1.7	Net Generation	MU	933.24	2243.26	416.36	1118.56	2249.41	
1.8	Heat Rate	kcal/kWh	2275	1950	2066.663	1950.000	1950.00	
2	Fuel Parameters (for each primary and secondary fuel)							
2.1	Gross Calorific Value							
2.1.1	Fuel - 1 (Indegineous Coal)	kCal/ SCM	9195.95		9120.5417	9120.5417	9138.59	
2.2	Landed Fuel Price per unit (Please specify the fuel)							
2.2.1	Fuel - 1 (Natural Gas)	Rs/ SCM	14.36	13.42	14.07	14.07	14.03	
3	Fuel Consumption and Heat Contribution (for each fuel separately)							
3.1	Specific Fuel Consumption							
3.1.1	Fuel - 1 (Natural Gas)	SCM/ kwh	0.25		0.25	0.24	0.21	
3.2	Total Fuel Consumption							
3.2.1	Fuel - 1 (Natural Gas)	SCM	241660646.57		110746468.64	273412339.20	494825098.27	
3.3	Heat Content (each fuel separately)							
3.3.1	Fuel 1 (2.1.1 x 3.1.1)	Million kcal	2222299.22		1010067.79	2493668.64	4522003.20	
	Total Heat Content							
4	Total Fuel Cost							
4.1.1	Fuel 1 (Natural Gas) (2.2.1 x 3.2.1)	Rs Crore	347.02	650.67	155.82	384.69	694.24	
	Total Fuel Cost	Rs Crore	347.02	650.67	155.82	384.69	694.24	
5	Details of limestone consumption (Applicable for Lignite based generating stations)							
6	Other Charges and Adjustments							
7	Total Cost (4+5+6)	Rs Crore	347.02	650.67	155.82	384.69	694.24	
8	Cost of Generation per unit (at Generation Terminal) (7/1.4)	Rs/kWh	3.553	2.814	3.534	3.336	2.994	
9	Energy Charge per unit (ex-bus) (7/1.7)							
9.1.1	Fuel - 1 (Natural Gas)	Rs/kWh	3.719	2.901	3.742	3.439	3.086	
	Total---(9)	Rs/kWh	3.719	2.901	3.742	3.439	3.086	

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) (2013-14) (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	2.796	0.00	0.00	2.796	0.000	0.000	0.00	0.000	2.80	2.80
1A	Building & Civil works of Power plant	3.34	38.251	0.00	0.00	38.251	7.718	1.28	0.00	8.995	30.53	29.26
2	Hydraulic works	5.28	14.630	0.00	0.00	14.630	1.544	0.77	0.00	2.317	13.09	12.31
3	Other Civil works	3.34	2.801	0.00	0.00	2.801	2.458	0.06	0.00	2.521	0.34	0.28
4	Plant & machinery	5.28	988.831	0.00	0.00	988.831	269.100	52.21	0.00	321.310	719.73	667.52
5	Lines and Cable Networks	5.28	2.400	0.00	0.00	2.400	0.523	0.13	0.00	0.649	1.88	1.75
6	Vehicles	6.33	0.120	0.00	0.00	0.120	0.071	0.01	0.00	0.079	0.05	0.04
7	Furniture & fixtures	6.33	0.713	0.07	0.00	0.782	0.169	0.05	0.00	0.216	0.54	0.57
8	Office Equipments	6.33	0.090	0.03	0.00	0.118	0.031	0.01	0.00	0.037	0.06	0.08
9	Capital spares	5.28	39.520	0.20	0.00	39.721	0.000	2.09	0.00	2.092	39.52	37.63
Total (1) to (11)			1090.15	0.30	0.00	1090.45	281.61	56.60	0.00	338.22	808.54	752.23

Year (n) (2014-15) (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	2.80	0.00	0.00	2.796	0.000	0.00	0.00	0.000	2.80	2.80
1A	Building & Civil works of Power plant	3.34	38.25	0.00	0.00	38.251	8.995	1.28	0.00	10.273	29.26	27.98
2	Hydraulic works	5.28	14.63	0.00	0.00	14.630	2.317	0.77	0.00	3.089	12.31	11.54
3	Other Civil works	3.34	2.80	0.00	0.00	2.801	2.521	0.00	0.00	2.521	0.28	0.28
4	Plant & machinery	5.28	988.83	0.00	0.00	988.831	321.310	52.21	0.00	373.520	667.52	615.31
5	Lines and Cable Networks	5.28	2.40	0.00	0.00	2.400	0.649	0.13	0.00	0.776	1.75	1.62
6	Vehicles	6.33	0.12	0.00	0.00	0.120	0.079	0.01	0.00	0.086	0.04	0.03
7	Furniture & fixtures	6.33	0.78	0.00	0.00	0.782	0.216	0.05	0.00	0.266	0.57	0.52
8	Office Equipments	6.33	0.12	0.00	0.00	0.118	0.037	0.01	0.00	0.045	0.08	0.07
9	Capital spares	5.28	39.72	0.00	0.00	39.721	2.092	2.10	0.00	4.189	37.63	35.53
Total (1) to (11)			1090.45	0.00	0.00	1090.45	338.22	56.55	0.00	394.77	752.23	695.68

Year (n+1) (2015-16) (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	2.80	0.00	0.00	2.796	0.000	0.00	0.00	0.000	2.80	2.80
1A	Building & Civil works of Power plant	3.34	38.25	0.00	0.00	38.251	10.273	1.28	0.00	11.551	27.98	26.70
2	Hydraulic works	5.28	14.63	0.00	0.00	14.630	3.089	0.77	0.00	3.862	11.54	10.77
3	Other Civil works	3.34	2.80	0.00	0.00	2.801	2.521	0.09	0.00	2.615	0.28	0.19
4	Plant & machinery	5.28	988.83	0.00	0.00	988.831	373.520	52.21	0.00	425.731	615.31	563.10
5	Lines and Cable Networks	5.28	2.40	0.00	0.00	2.400	0.776	0.13	0.00	0.903	1.62	1.50
6	Vehicles	6.33	0.12	0.00	0.00	0.120	0.086	0.01	0.00	0.094	0.03	0.03
7	Furniture & fixtures	6.33	0.78	0.00	0.00	0.782	0.266	0.05	0.00	0.315	0.52	0.47
8	Office Equipments	6.33	0.12	0.00	0.00	0.118	0.045	0.01	0.00	0.052	0.07	0.07
9	Capital spares	5.28	39.72	0.00	0.00	39.721	4.189	2.10	0.00	6.286	35.53	33.43
Total (1) to (11)			1090.45	0.00	0.00	1090.45	394.77	56.64	0.00	451.41	695.68	639.04

Form G 6.2
LOAN REPAYMENT & INTREST LIABILITY

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 :

Year (2013-14) Rs. Crore																		
S. No.	Source (loan)	Currency	Opening Balance	Anticipated Receipts	Anticipated Repayment	Interest rate		Closing Balance	Average Rate of Interest#	Liability of Interest during the	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	Indiar	463.49	0.00	56.60	12.48%		406.89	12.48%	54.32	1.00	55.32	0.00	55.32	Nil	Nil	Nil	Nil
2	Finance charges																	
	Total (for Station)		463.49	0.00	56.60			406.89		54.32	1.00	55.32	0.00	55.32	Nil	Nil	Nil	Nil
Year (2014-15) Rs. Crore																		
S. No.	Source (loan)	Currency	Opening Balance	Anticipated Receipts	Anticipated Repayment	Interest rate		Closing Balance	Average Rate of Interest#	Liability of Interest during the	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	Indiar	406.89	0.00	56.58	12.48%		350.31	12.48%	47.26	1.00	48.26	0.00	48.26	Nil	Nil	Nil	Nil
	Total (for Station)		406.89	0.00	56.58			350.31		47.26	1.00	48.26	0.00	48.26	Nil	Nil	Nil	Nil
Year (2015-16) Rs. Crore																		
S. No.	Source (loan)	Currency	Opening Balance	Anticipated Receipts	Anticipated Repayment	Interest rate		Closing Balance	Average Rate of Interest#	Liability of Interest during the	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	Indiar	350.31	0.00	56.64	12.48%		293.66	12.48%	40.19	1.00	41.19	0.00	41.19	Nil	Nil	Nil	Nil
	Total (for Station)		350.31	0.00	56.64			293.66		40.19	1.00	41.19	0.00	41.19	Nil	Nil	Nil	Nil

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 ¹	PFC						
Currency ²	Indian						
Amount of Loan sanctioned							
Amount of Gross Loan drawn upto previous year/during current/ensuing year/COD ^{3,4,5,13,15}							
Interest Type ⁶							
Fixed Interest Rate, if applicable							
Base Rate, if Floating Interest ⁷							
Margin, if Floating Interest ⁸	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
Are there any Caps/Floor ⁹							
If above is yes,specify caps/floor							
Moratorium Period ¹⁰							
Moratorium effective from							
Repayment Period ¹¹							
Repayment effective from							
Repayment Frequency ¹²							
Repayment Instalment ^{13,14}							
Base Exchange Rate ¹⁶							

Consolidated report on additions to Fixed Assets during the year

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 2013-14							Current Year 2014-15							Current Year 2015-16							
			(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																					
2	Building & Civil works of Power plant	10.2 XX	0.000																					
3	Hydraulic works	10.3 XX	0.000																					
4	Other Civil works	10.4 XX	0.000																					
5	Plant & machinery	10.5 XX	0.000																					
6	Lines and Cable Networks	10.6 XX	0.000																					
7	Vehicles	10.7 XX	0.000																					
8	Furniture & fixtures	10.8 XX	0.069																					
9	Office Equipments	10.9 XX	0.028																					
10	Capital spares	10.10 XX	0.201																					
	Total		0.297																					

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

Name of the Petitioner :	Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.						
Name of the Power Station :	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						
Capital Cost excluding IDC & FC							
Foreign Component, if any (In Million US \$ or the relevant Currency)							
Domestic Component (Rs. Cr.)							
Capital cost excluding IDC & FC (Rs. Cr)							
<u>IDC & FC</u>							
Foreign Component, if any (In Million US \$ or the relevant Currency)							
Domestic Component (Rs. Cr.)							
Total IDC & FC (Rs.Cr.)							
Rate of taxes & duties considered							
Capital cost Including IDC & FC							
Foreign Component, if any (In Million US \$ or the relevant Currency)							
Domestic Component (Rs. Cr.)							
Capital cost Including IDC & FC (Rs. Cr)							
<u>Schedule of Commissioning</u>							
COD of Unit-I/Block-I							
COD of Unit-II/Block-II							

COD of last Unit/Block							

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

Form G 6.6

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

Rs. Crore.

S.No.	Break Down	Cost in Rs. Crores			Variation (Rs. Cr.)	Reasons for Variation	Admitted Cost (Rs. Cr.)
		As per original Estimates	Actual Expenditure as on COD	Liabilities/Provisions			
1	2	3	4	5	6	7	8
1.0	Land & Site Development						
2.0	Access road						
3.0	Temporary construction and enabling works						
4	Water storage system						
5.0	Water transportation system						
6.0	Railway system						
7.0	Steam generator / Boiler Island						
8.0	Steam Turbine Generator Island including taxes, duties etc.						
9.0	Balance of Plant						
9.1	Mechanical BOP						
	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						
9.1.11	Misc. items including EOT cranes, hoist and elevators etc.						
9.1.12	Tax, Duties, F&I						
9.1.13	Spares						
9.2	Electrical BOP						
9.2.1	Power Transformers						
9.2.2	Switchyard						
9.2.3	Bus Duct						
9.2.4	HT Switchgear						
9.2.5	LT Switchgear						
9.2.6	DC Power System						
9.2.7	Power and Control Cables						
9.2.8	Control and Relay Panels						
9.2.9	Station Lighting						
9.2.10	DG Set						
9.2.11	Electrical equipment erection, cabling and grounding						
9.2.12	Other Misc. items						
9.2.13	Taxes, Duties and F&I						
9.2.14	ETC and spares						
9.3	Total BOP Civil Works						
9.3.1	Main Power house building						
9.3.2	Plant water system						
9.3.3	Chimney						
9.3.4	Permanent Township						
9.3.5	Ash dyke						
9.3.6	Misc. plant buildings						
9.3.7	Temp. sheds						
10.0	Control and Instrumentation						
11.0	Operator Training						
12.0	Start up fuel						
13.0	Construction insurance						
14.0	Special T&P						
15.0	Total Cost of Works (sum of items 1 to 15 above)						
16.0	Overheads						
16.1	Development Expenses						
16.2	Legal Expenses						
16.3	Establishment/Construction supervision						
16.4	Consultancy and Engineering						
16.5	Audit and Account						
16.6	Contingency						
16.7	Sub-total of Item 16						
17.0	Capital cost excluding IDC & FC						
18	Interest During Construction (IDC)						
19	Financing Charges (FC)						
20.0	Capital cost including IDC & FC						
21	Cost per MW						

NA

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.

Break-up of Construction / Supply / Service packages

Form G 6.7

Name of the Petitioner :
Name of the Power Station :

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

S.No.	Name/No. of Construction / Supply / Service Package	Scope of works ¹ (in line with head of cost break-ups as applicable)	Whether awarded through ICB/DCB/ Departmentally/ Deposit Work	No. of bids received	Date of Award	Date of Start of work	Date of Completion of Work	Value of Award ² in (Rs. Cr.)	Firm or With Escalation in prices	Actual expenditure till the completion or up to COD whichever is earlier(Rs.Cr.)	Taxes & Duties and Pre operative Expenses	IDC, FC, FERV & Hedging cost	Variation (Rs.Cr.)	Variation on account of change in Price (Rs. Cr.)	Reason for change in Price	Variation on account of change in Scope of Work (Rs. Cr.)	Reason for Change in Scope of Work
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1																	
2																	
3																	
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30																	
31																	
32																	

NA

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

Name of the Petitioner:
Name of the Power Station

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
	1 Loans												
	1.1 Foreign Loans												
	1.1.1 Foreign Loan 1												
	Draw down Amount												
	IDC												
	Financing charges												
	1.1.2 Foreign Loan 2												
	Draw down Amount												
	IDC												
	Financing charges												
	1.1.3 Foreign Loan 3												
	Draw down Amount												
	IDC												
	Financing charges												
	1.1.4 -												
	-												
	-												
	1.1 Total Foreign Loans												
	Draw down Amount												
	IDC												
	Financing charges												
	1.2 Indian Loans												
	1.2.1 Indian Loan 1												
	Draw down Amount												
	IDC												
	Financing charges												
	1.2.2 Indian Loan 2												
	Draw down Amount												
	IDC												
	Financing charges												
	1.2.3 Indian Loan 3												
	Draw down Amount												
	IDC												
	Financing charges												
	1.2.4 -												
	-												
	-												
	1.2 Total Indian Loans												
	Draw down Amount												
	IDC												
	Financing charges												
	1 Total of Loans drawn												
	IDC												
	Financing charges												
	2 Equity												
	2.1 Foreign equity drawn												
	2.2 Indian equity drawn												
	Total equity deployed												

NA

Form G 6.9
RETURN ON EQUITY

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

Rs. Crore

S.No.	Particulars	Reference	Previous year 2013-14	Current Year FY 2014-15			Ensuing Year FY 2015-16	Remarks
			(Actuals/audit ed)	Approved by the Commission	Apr-Sep (Actual)	Estimated for the year	(Anticipated)	
1	2	3	4	5	6	7 = 5+6	8	9
1	Equity at the beginning of the year				347	347	347	
2	Capitalisation				0	0	0	
3	Equity portion of capitalisation				0	0	0	
4	Equity at the end of the year				347	347	347	
	Return Computation							
5	Return on Equity at the beginning of the year	15.50%*(1)			26.89	26.89	53.79	
6	Return on Equity portion of capitalisation (on pro-rata basis)	15.5%*(3)/(n/12)			0	0	0	
7	Total Return on Equity	(5)+(6)			26.89	26.89	53.79	

Statement of Additional Capitalisation after COD and Details for Financing

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

(Rs. Crore)

S.No.	Work/Equipment added after COD up to Cut off Date / Beyond Cut off Date	Amount Capitalised / Proposed to be capitalised	Justification	Regulations under which such additional capitalisation has been claimed	Source of Finance					Admitted Cost ¹
					Loan 1	Loan 2 and so on	Total Loan	Equity	Internal Sources or Others (mention details)	
	1 Land & land rights	0.00								
	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	0.07								
	9 Office Equipments	0.03								
	10 Capital spares	0.20								
Total		0.30								

Form G 6.11

Interest on Working Capital

Name of the Petitioner
Name of the Power Station

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

Rs. Crore

S. No.	Particulars		FY 2013-14	FY 2014-15		FY 2015-16	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	NA	
2	Coal Cost (Pit head)	Half month	NA	NA	NA	NA	NA	
3	Cost of Gas	Half month	14.46	27.11	6.49	16.03	28.93	
4	Sec.Fuel Oil	Two month	NA	NA	NA	NA	NA	
5	Liquid Fuel Stock	Half month	NA	NA	NA	NA	NA	
6	O & M expenses	One month	3.13		1.66	1.66	3.51	
	Maintenance Spares	20% of O&M	7.52		3.98	3.98	8.43	
	Recievables	1½ Month	63.52		33.50	62.70	115.29	
	Total Working Capital		88.63		45.63	84.36	156.15	
	Rate of Interest (as per norms)		12.48%		12.21%	12.21%	12.50%	
	Interest on Working Capital		11.07	18.08	5.57	10.30	19.52	

Insurance Expenses

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 (n)			Ensuing Year	Remarks
		2013-14	2014-15			2015-16	
		(Actuals/audited)	Approved by the Commission	Apr-Sep (Actual)	Oct-March (Estimated)	(Anticipated)	
1	2	4	5	6	7=6+5	8	9
	Insurance Expenses	1.24		0.65	0.65	1.32	
a)	Provision made/ proposed for the year						
b)	Actual insurance expenses incurred	1.242					
c)	Average Net Fixed Assets	780.39		723.96	723.96	667.36	

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 2013-14	Current Year 2014-15	Ensuing Year 2015-16	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)		14.26	14.26	
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
Name of the Power Station :

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

Rs. Crore

S.No.	Particulars	Previous year	Current year			MYT Control Period					Remarks
		FY 2013-14	FY 2014-15			FY 2015-16	n+2	n+3	n+4	n+5	
		(Actuals / audited)	Apr-Sep (Actual)	Oct-Mar (Estimated)	Total (April - March)	(Anticipated)					
1	2	3	4	5	6 = 4+5	7	8	9	10	11	12
1	Plant load factor	33.79%	24.24%	80.00%		80.00%					
2	Auxiliary consumption	4.46%	5.56%	3.00%		3.00%					
3	Specific fuel consumption										
(i)	coal, kg / kWh	0.25	0.25	0.24		0.21					
(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	2275.00	2066.66	1950.00		1950.00					
5	Annual Maitenance shut down days										
6	Forced / planned shut down except annual shut down										
(i)	number / year										
(ii)	cumulative duration, hours / year										
7	Fly ash utilisation, %	100%	100%	100%		100%					
8	Other bye product utilisation(give list)										
9	Outstanding dues, days of receivables										
10	Availability	46.75%	0.00%	0.00%		80.00%					