

**Petition For**  
**Aggregate Revenue Requirement (ARR) and Tariff**  
**For FY 2017-18**  
**For**  
**Chhabra Super Thermal Power Station (CTPP)**  
**Unit 1 to 4**

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

**January 2017**

## CONTENTS

A1: BACKGROUND.....	7
A2: GENERATION FORECAST.....	7
A3: CAPITAL COST.....	8
ADDITIONAL CAPITALIZATION FOR FY 2014-15.....	8
ADDITIONAL CAPITALIZATION FOR FY 2015-16.....	9
ADDITIONAL CAPITALIZATION FOR FY 2014-15.....	9
A4: CTPP (UNIT 1 TO 4) ANNUAL CAPACITY (FIXED) CHARGES FOR 2017-18.....	11
DEPRECIATION:- .....	11
INTEREST ON LOANS:-.....	11
INTEREST ON WORKING CAPITAL .....	11
OPERATION & MAINTENANCE EXPENSES .....	12
RECOVERY OF ARR & TARIFF PETITION FEES .....	12
INSURANCE CHARGES.....	12
RETURN ON EQUITY (ROE) .....	13
NON-TARIFF INCOME.....	13
A5: CTPP ESTIMATED CAPACITY CHARGES (FIXED) .....	14
A6: VARIABLE CHARGES.....	14
A7: ESTIMATED ARR FOR CTPP.....	16
A8: CTPP ESTIMATED TARIFF.....	17
A9: FUEL COST ADJUSTMENT.....	17
A10: RESPONDENTS:- .....	17
A11: PRAYER .....	17

## LIST OF TABLES

TABLE 1: GROSS GENERATION, PLF & EX-BUS ENERGY SALE FROM CTPP STATION .....	7
TABLE 2: DEPRECIATION (RS. IN CRORE) .....	11
TABLE 3: INTEREST ON LOANS (RS. IN CRORE) .....	11
TABLE 4: INTEREST ON WORKING CAPITAL (RS. IN CRORE) .....	12
TABLE 5: O & M EXPENSES (RS. IN CRORE) .....	12
TABLE 6: RECOVERY OF ARR & TARIFF PETITION FEES (RS. IN CRORE).....	12
TABLE 7: INSURANCE CHARGES (RS. IN CRORE) .....	13
TABLE 8: RETURN ON EQUITY (RS. IN CRORE).....	13
TABLE 9:NON-TARIFF INCOME (RS. IN CRORE) .....	13
TABLE 10: NET CAPACITY CHARGES FOR CTPP (RS. IN CRORE) .....	14
TABLE 11: VARIABLE COST (RS. IN CRORES) .....	15
TABLE 12: ARR FOR CTPP (RS. IN CRORES) .....	16
TABLE 13: CTPP TARIFF.....	17

## FORMATS

<b>Form No.</b>	<b>Particulars</b>	<b>Page No.</b>
Form G 1.1	Summary of Tariff proposal	18
Form G 1.2	Aggregate Revenue Requirement	19
Form G 2.1	Plant characteristics	20
Form G 2.2	Operational Parameters – Generation	21
Form G 3.1	Revenue from sale of power	22-24
Form G 3.2	Non-tariff income	25
Form G 3.3	Revenue Subsidies & Grants	26
Form G 3.4	Capital Subsidies and Grants	27
Form G 4.1	O&M Expenses	28
Form G 5.1	Detail./ Information in respect of fuel (Coal) for computation of energy charges (U#1&2)	29
Form G 5.1	Detail./ Information in respect of fuel (Coal) for computation of energy charges (U#3&4)	30
Form G 5.1	Detail./ Information in respect of fuel (Oil)for computation of energy charges (U#3&4)	31
Form G 5.3	Energy Charges for Thermal Generation	32
Form G 6.1	Fixed assets & provisions for depreciation	33-35
Form G 6.2	Loan Repayment & Interest liability	36-38
Form G 6.3	Details of Project Specific Loans	39
Form G 6.4	Consolidated report on additions to Fixed Assets during the year	40
Form G 6.5	Abstract of Capital Cost Estimates and Schedule of Commissioning for the New projects	41
Form G 6.6	Break-up of Capital Cost for Coal / Lignite / gas / liquid fuel based projects	42
Form G 6.7	Break-up of Construction / Supply / Service packages	43
Form G 6.8	Draw Down Schedule for Calculation of IDC & Financing Charges	44
Form G 6.9	Return on Equity	45
Form G 6.10	Statement of Additional Capitalisation after COD and Details for Financing	46
Form G 6.11	Interest on Working capital	47
Form G 6.12	Insurance Expenses	48
Form G 6.13	Tax on R.O.E.	49
Form G 7.1	Proposed improvement in performance	50

## DEFINITIONS

<b>Act</b>	The Electricity Act, 2003
<b>Application</b>	This ARR and Tariff Petition for FY-2016-17 for Chhabra Thermal Power Station of Rajasthan Rajya Vidyut Utpadan Nigam Limited, Jaipur
<b>Auxiliary Consumption (Aux. Con.)</b>	Auxiliary Consumption in relation to a period means the quantum of energy consumed by auxiliary equipment of the generating station and transformer losses within the generating station, and shall be expressed as a percentage of the sum of gross energy generated at the generator terminals of all the units of the generating station
<b>Availability</b>	Availability shall have the same meaning as defined in Section 2(7) of the RERC Tariff Regulations 2014.
<b>Distribution Company / Discoms</b>	Discoms or Distribution Company shall mean a company engaged primarily in the business of distribution & supply of electricity in its area of supply including Jaipur Vidyut Vitran Nigam Ltd. (JVVN), Ajmer Vidyut Vitran Nigam Ltd. (AVVN) and Jodhpur Vidyut Vitran Nigam Ltd. (JdVVN).
<b>Gross Calorific Value (GCV)</b>	Gross Calorific Value in relation to a thermal power generating station means the heat produced in kCal by complete combustion of one kilogram of solid fuel or one litre of liquid fuel or one standard cubic meter of gaseous fuel, as the case may be.
<b>Regulation</b>	The Rajasthan Electricity Regulatory Commission (The Rajasthan Electricity Regulatory Commission (Terms and Conditions for Determination of Tariff) Regulations, 2014 notified by RERC on March- 27, 2014
<b>State</b>	The State of Rajasthan.
<b>Gross Station Heat Rate</b>	Heat energy input in kCal required to generate one unit (kWh) of electrical energy at generator terminals.
<b>Unit</b>	Unit in relation to a generating station means electric generator, its prime mover and auxiliaries and in relation to a combined cycle thermal power generating station includes combustion turbine – generators, associated waste heat recovery boilers, connected steam turbine-generator and auxiliaries

## ABBREVIATIONS

ARR	Aggregate Revenue Requirement
Ajmer Discom	Ajmer Vidyut Vitran Nigam Limited
CSR	Corporate Social Responsibility
FRP	Financial Restructuring Plan
FY	Financial Year
FY – 16	Financial Year 2015-16
FY – 17	Financial Year 2016-17
FY – 18	Financial Year 2017-18
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
RVUN	Rajasthan Rajya Vidyut Utpadan Nigam Limited
RVPN	Rajasthan Rajya Vidyut Prasaran Nigam Limited
Rs.	Indian Rupees
SHR	Station Heat Rate
Transfer Scheme	The Rajasthan Power Sector Reforms Transfer Scheme, 2000

### **Notes:**

#### **In this Petition:**

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

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

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

## A1: BACKGROUND

- 1.1 Rajasthan Rajya Vidyut Utpadan Nigam Ltd (RVUN) was incorporated under the Companies Act 1956, as one of the five successor companies of erstwhile Rajasthan State Electricity Board (RSEB) to take over the electricity generation business in the state of Rajasthan. The existing power stations and those under commissioning in the state sector were transferred to RVUN as per the Rajasthan Power Sector Reforms Transfer Scheme, 2000 notified by State Government provisionally on 19th July 2000 and finally on 18th January 2002.
- 1.2 From 1<sup>st</sup> April 2004 onwards, RVPN is no longer responsible for the bulk purchase of power in Rajasthan. The capacity allocated to RVPN from RVUN generating stations has been reallocated to the three Discoms (Jaipur, Ajmer and Jodhpur) in the ratio of 39:29:32 from October 2011, 40:28:32 from June 2015 or as modified by competent authority from time to time. RVUN has entered into Long Term Power supply-Purchase Agreements (PPA) in respect of existing and future power projects for 25 Years with the three Discoms on 28.09.06, 07.06.2007, 18.05.2010 and further supplementary PPA was signed on date 29.06.2015 which includes CTPP Unit 1 to 3 (750 MW).
- 1.3 RVUN have to file its petition for determination of Tariff and ARR for 2017-18 in accordance with provision of RERC Tariff Regulations 2014. Accordingly this petition is being submitted for CTPP (Unit 1 to 4) before RERC for ARR and Tariff determination for FY 2017-18.

## A2: GENERATION FORECAST

- 2.1 The installed capacity of CTPP (Unit- 1 to 4) is 1000 MW. The estimated figures of Gross generation, PLF & net energy sale to three Discoms from CTPP station of RVUN for the period FY 2015-16, FY 2016-17 and FY 2017-18 are as shown in below:

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

	FY 2015-16			FY 2016-17			FY 2017-18		
	Unit 1&2	Unit 3	Unit 4	Unit 1&2	Unit 3	Unit 4	Unit 1&2	Unit 3	Unit 4
Total Capacity	500	250	250	500	250.00	250.00	500.00	250.00	250.00
Plant Load Factor	37.00%	60.62%	67.31%	73.59%	70.87%	76.63%	80.00%	80.00%	83.00%
Gross Generation	1,664.61	1,331.12	1,478.16	3,232.20	1,556.34	1,682.78	3,504.00	1,752.00	1,817.70
Auxiliary Energy Consumption	11.17%	10.73%	10.17%	9.52%	9.51%	9.62%	9.00%	9.00%	9.00%
Net Generation	1,478.74	1,186.38	1,326.38	2,924.50	1,408.31	1,518.59	3,188.64	1,594.32	1,654.11

- 2.2 The fixed cost element for CTPP for the FY 2015-16, FY 2016-17 and FY 2017-18 are as below.

### A3: CAPITAL COST

- 3.1 It is submitted that CTPP unit 1&2 had achieved the date of commercial operation 11.06.2010 and 15.10.2011, thus on 29.12.2011 RVUN has filed the petition for determination of capital cost under regulation 44(5) of RERC tariff Regulation 2009 before the Hon'ble Commission. The Hon'ble Commission in its order dated 06.06.2013 has finalized the capital cost of CTPP unit 1 & 2 of Rs 2416 Cr. against the RVUN Claim of Rs 2718 Cr.
- 3.2 Further, During the True up of FY 2013-14, Hon'ble Commission has approved the additional capitalization of Rs. 17.62 Crore and Rs. 27.06 crore against the RVUN claim of Rs. 18.16 and Rs. 37.63 crore for FY 2012-13 and FY 2013-14 respectively.
- 3.3 Against the above disallowance, RVUN had filed the review petition dated 15.11.2016 of Rs. 0.54 crore and Rs 3.65 crore for FY 2012-13 and FY 2013-14 respectively and Hon'ble Commission has dismissed the petition.
- 3.4 Accordingly, the Capital cost of CTPP unit 1&2 as on 31.03.2014 considered as Rs. 2460.68 crore.
- 3.5 During FY 2014-15 and FY 2015-16, RVUN has incurred additional capitalization of Rs. 15.28 crore and Rs. 3.31 crore as per regulation 19 of RERC Tariff Regulation 2009. Regulation 19 of RERC Tariff Regulations 2009 on additional capitalization is reproduce below:

#### 19 Additional capitalization

*(1) The following capital expenditure, actually incurred after the date of commercial operation and duly audited, may be considered by the Commission, subject to prudent check*

*(a) Due to deferred liabilities within the original scope of work,*

*(b) On works within the original scope of work, deferred for execution*

*(c) To meet award of arbitration or satisfaction of order or decree of a court arising out of original scope of works,*

*(d) On account of change in law,*

*(e) On procurement of initial spares included in the original project costs subject to the ceiling norm laid down in Regulation 18,*

*(f) Any additional works/ services, which have become necessary for efficient and successful operation of a generating station or a transmission or a distribution system but not included in the original capital cost:*

- 3.6 The following expenditure has been incurred during FY 2014-15 and FY 2015-16 as per regulation 19 of RERC Tariff Regulation 2009, which are within the Original Scope of Work:

Additional capitalization for FY 2014-15

Sr. No.	Particulars	Name of Firm	Amount	Remark
1	Main Plant BTG Package	M/s BHEL	142717346.00	It is a part of original scope of work
2	Package Other than BOP & BTG	14033 ABB Ltd.	2647950	
3	Package	14042 Bajaj Electrical	3624250	
4	Civil Works (Pucca Road)	14043 Prem Chand Suman Jhalawar	510351	
5	Administration & Overhead Charges	Furniture & Fixtures	998197	
6	Administration & Overhead	Other Office Equipment	2283620.39	



Charges			
	<b>Total</b>		<b>152781714.39</b>

Additional capitalization for FY 2015-16

Sr. No.	Particulars	Name of Firm	Amount	Remark
1	Main Plant BTG Package	<b>M/s BHEL Supply</b>	16682919.00	It is a part of original scope of work
2		<b>M/s BHEL ETC</b>	4040582.00	
3	Hydraulic Work (Annicat & Raising Dam)	<b>XEN Water Resources Department</b>	7210000.00	
4	Administration & Overhead Charges	M/s TCE Consulting Engineers Ltd	5214872.00	Consultancy Services
		<b>Total</b>	<b>33148373.00</b>	

- 3.7 To justify that the above work is within the original scope of work, the detail comparison of original Scope of work and cost incurred is enclosed as per annexure - A

**CTPP unit 3 & 4**

- 3.8 It is submitted that CTPP unit 3&4 had achieved the date of commercial operation 19.12.2013 and 30.12.2014, thus on 31.03.2015 & 18.05.2015 respectively RVUN has filed the petition for determination of capital cost under regulation and 44(5) and 42(4) of RERC tariff Regulations 2009 and 2014 respectively. The Hon'ble Commission in its order dated 22.05.2015 & 01.01.2016 has provisionally approve the capital cost of CTPP unit 3 & 4 of Rs. 1431.31 Cr. & Rs. 1162.55 against the RVUN Claim of Rs 1565.26 crore & Rs. 1401.69 crore.
- 3.9 During FY 2014-15, RVUN has incurred additional capitalisation of Rs. 57.30 crore under unit 3 as per regulation 19 of RERC Tariff Regulations 2009, which are well within the original Scope of Work.
- 3.10 During FY 15-16 RVUN has incurred additional capitalisation of Rs. 51.66 crore under unit 3 and Rs. 82.65 crores under unit 4 against original scope of work as per regulation 19&17 of RERC tariff Regulations, 2009 & 2014 respectively.

Additional capitalization for FY 2014-15

Sr. No.	Particulars	Amount	Remark
1	Main Plant BTG Package	5421309966.00	It is a part of original scope of work
2	Main Plant BOP Package	3987365439	
3	Main Plant C&I Package	147455823	
4	River Water System	302631013	
5	Hydraulics Work (DAM)	380615336	
6	Railway Sidding Work	257925000	
7	Package Other then BOP & BTG Package	2912158	
8	Residencial Colony (Building)	123713873	

9	IDC and other Capitalisation Charges	3943608027	
10	Administration & Overhead Charges	4728000	Furniture & Fixtures
	<b>Total</b>	14572264635	
	<b>Amount already Capitalised in F.Y.-2013-14</b>		
11	River Water System	11273720	It is a part of original scope of work
12	Administration & Overhead Charges	8761645	Furniture & Fixtures
	<b>Grand Total</b>	14592300000	

**FY 15-16**

<u>Sr. No.</u>	<u>Particulars of Assets</u>	<u>Name of Firm</u>	<u>Amount</u>	<u>Remark</u>
1	Main Plant BTG Package	<b>BHEL hydrabad unit 3&amp;4</b>	30998293.00	It is a part of original scope of work
		<b>BHEL varanasi 3&amp;4</b>	750034.00	
		<b>ETC BHEL unit 3&amp;4</b>	40569277.00	
2	Main Plant BOP Package	<b>Indure Pvt. Ltd.</b>	147695457.00	
		<b>Indure supply</b>	54970033.00	
3	Main Plant C&I Package	<b>IL kota unit 3&amp;4</b>	982107.00	
4	Residencial Colony (Building)	<b>Jainco enterprises kota</b>	200816960.00	
		<b>JCC infra project pvt ltd</b>	204256682.00	
		<b>Pawan Kumar Contractor</b>	11625906.00	
5	River Water System	<b>Manda developers &amp; builders</b>	78950042.00	
6	Hydraulics Work (DAM)	<b>XEN Water Resources</b>	6000000	
7	Package Other then BOP & BTG Package	<b>XEN PWD Chhabra</b>	50000000.00	
		<b>ABB india ltd 14.050</b>	1407998.00	
		<b>CWIP Unit-3&amp;4</b>	-7253333	
8	Administration & Overhead Charges	Furniture & Fixtures	365897	Furniture & Fixtures
		<b>Total</b>	<b>822135353.00</b>	
9	Main Plant BTG Package Spares	<b>BHEL Spares 3&amp;4</b>	521080539.00	It is a part of original scope of work
		<b>Grand Total</b>	<b>1343215892.00</b>	

## FIXED CHARGES

### A4: CTPP (UNIT 1 TO 4) ANNUAL CAPACITY (FIXED) CHARGES FOR 2017-18

#### Depreciation:-

- 4.1 Based on above capital cost and additional capitalization Estimated figures of depreciation for FY 2015-16, FY 2016-17 and 2017-18 as computed under format 6.1 are summarised in table below:

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

Station	FY 15-16			FY 16-17			FY 17-18		
	Unit 1&2	Unit 3	Unit 4	Unit 1&2	Unit 3	Unit 4	Unit 1&2	Unit 3	Unit 4
<b>CTPP</b>									
<b>Depreciation</b>	125.62	76.58	60.73	125.71	77.78	62.58	125.71	77.78	62.58

#### Interest on Loans:-

- 4.2 The loan-wise interest expenses have been worked-out and taken as part of fixed cost along with finance charges as per regulation 21 of RERC tariff regulations 2014. The loan repayment amount for term loans has been taken equal to the depreciation figure envisaged for FY 2015-16, FY 2016-17 and 2017-18.
- 4.3 Estimated figures for interest on term loan, transitional loan and finance charges as computed under format 6.2 are summarised in Table below:

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

Station	FY 15-16			FY 16-17			FY 17-18		
	Unit 1&2	Unit 3	Unit 4	Unit 1&2	Unit 3	Unit 4	Unit 1&2	Unit 3	Unit 4
Interest (Term Loan + Transitional Loan) and finance charges	184.57	135.60	115.55	163.01	128.55	111.98	148.55	119.03	104.34

#### Interest on working Capital

- 4.4 The interest on working capital loan for FY 2015-16, 2016-17 and FY 2017-18 computed as per the norms defined under clause No. 27 of RERC Tariff Regulations 2014. FY 2015-16, 2016-17 and FY 2017-18, 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.
- 4.5 Estimated figures of Interest on Working Capital Loan as computed under format 6.11 is summarised as below:

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

Station	FY 15-16			FY 16-17			FY 17-18		
	Unit 1&2	Unit 3	Unit 4	Unit 1&2	Unit 3	Unit 4	Unit 1&2	Unit 3	Unit 4
CTPP									
Interest on Working Capital	39.79	16.99	17.21	35.55	19.03	19.37	30.90	17.17	17.01

**Operation & Maintenance Expenses**

4.6 The Operation & Maintenance Expenses have been computed as per the norms prescribed under Regulation 27 of RERC Tariff Regulations 2014.

4.7 Estimated figures for the period FY 2015-16, 2016-17 and FY 2017-18 as computed under format 4.1 are summarised in Table below:

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

Station	FY 15-16			FY 16-17			FY 17-18		
	Unit 1&2	Unit 3	Unit 4	Unit 1&2	Unit 3	Unit 4	Unit 1&2	Unit 3	Unit 4
CTPP									
Operation and Maintenance	73.65	42.58	42.58	90.14	45.07	45.07	95.41	47.71	47.71

**Recovery of ARR & Tariff Petition Fees**

4.8 The Hon'ble Commission vide order dated 10.03.08 has allowed to pass through the fees levied for filling up of ARR & Tariff Petition, as expenses in the ARR. Accordingly, RVUN has claim the fee as under. The Commission may consider and allow the same.

4.9 The ARR & Tariff Petition Fees for FY 2015-16, 2016-17 and FY 2017-18 are summarised in Table below:

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

Station	FY 15-16			FY 16-17			FY 17-18		
	Unit 1&2	Unit 3	Unit 4	Unit 1&2	Unit 3	Unit 4	Unit 1&2	Unit 3	Unit 4
CTPP									
Recovery of ARR and Tariff Fee	0.25	0.13	0.13	0.25	0.13	0.13	0.25	0.13	0.13

**Insurance Charges**

4.10 RVUN is claiming the insurance charges for CTPP for the year 2017-18 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 15-16			FY 16-17			FY 17-18		
	Unit 1&2	Unit 3	Unit 4	Unit 1&2	Unit 3	Unit 4	Unit 1&2	Unit 3	Unit 4
CTPP									
Insurance Charges	3.09	1.54	1.54	3.24	1.62	1.62	3.40	1.70	1.70

**Return on Equity (ROE)**

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

4.12 The Return on Equity (ROE) for FY 2015-16, 2016-17 and FY 2017-18 are summarised in Table below:

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

Station	FY 15-16			FY 16-17			FY 17-18		
	Unit 1&2	Unit 3	Unit 4	Unit 1&2	Unit 3	Unit 4	Unit 1&2	Unit 3	Unit 4
CTPP									
ROE	25.08	15.69	12.91	77.83	47.75	38.60	77.83	47.75	38.60
Tax on ROE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Non-Tariff Income**

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

- a) Interest on govt subsidy
- b) Conveyance Advance
- c) House Building Advance
- d) Sale of Scrap
- e) Interest on FD/ Staff Loans
- f) Miscellaneous receipts (rebates etc)

4.14 Estimated figures of Non Tariff Income for FY 2015-16, 2016-17 and FY 2017-18 are summarised in Table below.

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

Station	FY 15-16			FY 16-17			FY 17-18		
	Unit 1&2	Unit 3	Unit 4	Unit 1&2	Unit 3	Unit 4	Unit 1&2	Unit 3	Unit 4
CTPP									
Non Tariff Income	2.85	1.42	1.42	2.99	1.49	1.49	3.14	1.57	1.57

**A5: CTPP ESTIMATED CAPACITY CHARGES (FIXED)**

5.1 The net fixed charges is computed for FY 2015-16, 2016-17 and FY 2017-18 in the Table below:

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

Station	FY 15-16			FY 16-17			FY 17-18		
	Unit 1&2	Unit 3	Unit 4	Unit 1&2	Unit 3	Unit 4	Unit 1&2	Unit 3	Unit 4
Prior period Exp.	5.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Depreciation	125.62	76.58	60.73	125.71	77.78	62.58	125.71	77.78	62.58
Interest on term Loan & Transitional Loan	184.57	135.60	115.55	163.01	128.55	111.98	148.55	119.03	104.34
Return on Equity	25.08	15.69	12.91	77.83	47.75	38.60	77.83	47.75	38.60
Interest on Working Capital	39.79	16.99	17.21	35.55	19.03	19.37	30.90	17.17	17.01
O & M Expenses	73.65	42.58	42.58	90.14	45.07	45.07	95.41	47.71	47.71
Insurance Charges	3.09	1.54	1.54	3.24	1.62	1.62	3.40	1.70	1.70
Tax on ROE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Recovery of ARR and Tariff Petition Fee	0.25	0.13	0.13	0.25	0.13	0.13	0.25	0.13	0.13
Less: Non-Tariff income	2.85	1.42	1.42	2.99	1.49	1.49	3.14	1.57	1.57
<b>Net Fixed Charges</b>	<b>454.87</b>	<b>287.68</b>	<b>249.23</b>	<b>492.73</b>	<b>318.43</b>	<b>277.85</b>	<b>478.92</b>	<b>309.70</b>	<b>270.49</b>

**A6: VARIABLE CHARGES****Coal and Oil GCV, Price and cost**

- 6.1 For FY 2017-18, the average Gross calorific value and the average rate of oil supply have been calculated on the basis of receipts of previous three months during April, May and June of 2016 as per Commission's formats.
- 6.2 The use of imported coal is considered as nil for FY 2017-18.
- 6.3 For FY 2017-18, GCV of indigenous coal has been considered as 4122.07 kCal/kg for Unit 1&2, 4251.77 kCal/kg for Unit 3&4 of CTPP and the price of indigenous coal has been taken as Rs. 3544.05 per MT for unit 1&2, Rs. 3901.09 per MT 3&4 respectively. GCV of secondary fuel (OIL) has been considered as 10540 kCal/ltr and 10504 kCal/ltr for HFO of of 1&2 and 3&4 respectively of CTPP and 11200 kCal/ltr for LDO of unit 1&2, 12000 kCal/ltr for unit 3 & 4 of CTPP. Price of the HFO has been taken Rs. 23957/kl for unit 1&2, Rs. 25217.94/kl for unit 3 & unit 4 of CTPP and price of LDO has been taken as Rs. 42007.67/kl for unit 1&2, Rs. 43356.02/kl for unit 3&4 of CTPP.
- 6.4 The overall estimated figures of variable Cost for the period under consideration, are summarised in Table below.

**Table 11: Variable Cost (Rs. in Crores)**

Particulars	unit	FY 2015-16			FY 2016-17			FY 2017-18		
		Unit 1&2	Unit 3	Unit 4	Unit 1&2	UNIT-3	UNIT-4	Unit 1&2	Unit 3	Unit 4
Total Capacity	MW	500	250	250	500	250	250	500	250	250.00
Availability	%	44.29%	74.15%	78.58%	80.00%	80.00%	80.00%	80.00%	80.00%	83.00%
PLF	%	37.00%	60.62%	67.31%	73.59%	70.87%	76.63%	80.00%	80.00%	83.00%
<b>Gross Generation</b>	<b>MU</b>	<b>1664.61</b>	<b>1331.12</b>	<b>1478.16</b>	<b>3232.20</b>	<b>1556.34</b>	<b>1682.78</b>	<b>3504.00</b>	<b>1752.00</b>	<b>1817.70</b>
Auxiliary Energy Consumption	%	11.17%	10.73%	10.17%	9.52%	9.51%	9.62%	9.00%	9.00%	9.00%
Auxiliary Energy Consumption	MU	185.87	142.82	150.35	307.70	148.04	161.86	315.36	157.68	163.59
<b>Net Generation</b>	<b>MU</b>	<b>1478.74</b>	<b>1186.38</b>	<b>1326.38</b>	<b>2924.50</b>	<b>1408.31</b>	<b>1518.59</b>	<b>3188.64</b>	<b>1594.32</b>	<b>1654.11</b>
Heat Rate	kcal/kWh	2746.31	3000.611	2897.22	2706.63	2772.40	2781.92	2312.31	2312.31	2312.31
<b>Fuel Parameters (for each primary and secondary fuel)</b>										
<b>Gross Calorific Value</b>										
Fuel - 1 (Indegineous Coal)	kcal/Kg	4,249.96	4,345.59	4,345.59	4,084.74	4,198.89	4,198.89	4,122.07	4,251.77	4,251.77
Fuel - 2 (HFO)	kcal/Ltr.	10,504.00	10,504.00	10,504.00	10,540.00	10,504.00	10,504.00	10504.00	10504.00	10504.00
Fuel - 3 (LDO)	kcal/Ltr.	12,000.00	12,000.00	12,000.00	11,200.00	12,000.00	12,000.00	12000.00	12000.00	12000.00
Fuel - 4 (Imported Coal)	kcal/Kg	6,357.01	6,357.58	6,357.58	-	-	-	-	-	-
<b>Landed Fuel Price per unit (Please specify the fuel)</b>										
Fuel - 1 (Indegineous Coal)	Rs/MT	3,356.93	3,636.81	3,636.81	3,701.74	3,947.19	3,938.49	3,544.05	3,901.09	3,901.09
Fuel - 2 (HFO)	Rs/KL	28,120.61	28,120.61	28,120.61	22,539.70	22,496.80	22,616.63	21779.09	21779.09	21779.09
Fuel - 3 (LDO)	Rs/KL	44,407.28	44,407.28	44,407.28	38,453.23	38,453.23	39,842.04	38188.79	38188.79	38188.79
Fuel - 4 (Imported Coal)	Rs/MT	7,120.03	7,120.40	7,120.40	-	-	-	-	-	-
<b>Fuel Consumption and Heat</b>										

<b>Contribution (for each fuel separately)</b>										
Specific Fuel Consumption										
Fuel - 1 (Indeigneous Coal)	Kg/ kWh	0.62	0.67	0.65	0.66	0.71	0.66	0.56	0.54	0.54
Fuel - 2 (HFO)	ML/ kWh	2.64	3.63	3.55	1.05	0.75	0.70	0.45	0.45	0.45
Fuel - 3 (LDO)	ML/ kWh	0.32	0.70	0.86	0.19	0.16	0.14	0.05	0.05	0.05
Fuel - 4 (Imported Coal)	Kg/ kWh	0.01	0.01	0.01	-	-	-	-	-	-
<b>Total Fuel Cost</b>										
Fuel - 1 (Indeigneous Coal)	Rs Crore	344.83	323.54	347.53	788.97	402.93	437.68	695.01	370.85	384.75
Fuel - 2 (HFO)	Rs Crore	12.34	13.59	14.77	7.62	5.05	2.65	3.43	1.72	1.78
Fuel - 3 (LDO)	Rs Crore	2.35	4.12	5.63	2.39	1.63	0.96	0.67	0.33	0.35
Fuel - 4 (Imported Coal)	Rs Crore	17.19	7.43	6.67	-	-	-	-	-	-
other charges		25.64								
<b>Total Fuel Cost</b>	<b>Rs Crore</b>	<b>402.35</b>	<b>348.68</b>	<b>374.60</b>	<b>798.97</b>	<b>409.61</b>	<b>441.29</b>	<b>699.12</b>	<b>372.90</b>	<b>386.88</b>
<b>Cost of Generation per unit</b>	<b>Rs/kWh</b>	<b>2.42</b>	<b>2.62</b>	<b>2.53</b>	<b>2.47</b>	<b>2.63</b>	<b>2.62</b>	<b>2.00</b>	<b>2.13</b>	<b>2.13</b>
<b>Energy Rate per unit sent out</b>	<b>Rs/kWh</b>	<b>2.72</b>	<b>2.94</b>	<b>2.82</b>	<b>2.73</b>	<b>2.91</b>	<b>2.91</b>	<b>2.19</b>	<b>2.34</b>	<b>2.34</b>

## A7: ESTIMATED ARR FOR CTPP

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

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

Station	FY 15-16			FY 16-17			FY 17-18		
	Unit 1&2	Unit 3	Unit 4	Unit 1&2	Unit 3	Unit 4	Unit 1&2	Unit 3	Unit 4
CTPP	454.87	287.68	249.23	492.73	318.43	277.85	478.92	309.70	270.49
Capacity (Fixed Charges)									
Variable Cost	402.35	348.68	374.60	798.97	409.61	441.29	699.12	372.90	386.88
<b>Aggregate Revenue Requirement</b>	<b>857.21</b>	<b>636.36</b>	<b>623.83</b>	<b>1291.71</b>	<b>728.04</b>	<b>719.14</b>	<b>1178.03</b>	<b>682.60</b>	<b>657.37</b>



## A8: CTPP ESTIMATED TARIFF

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

**Table 13: CTPP TARIFF**

Station	FY 15-16			FY 16-17			FY 17-18		
	Unit 1&2	Unit 3	Unit 4	Unit 1&2	Unit 3	Unit 4	Unit 1&2	Unit 3	Unit 4
CTPP	1478.74	1186.38	1326.38	2916.85	1405.24	1518.59	3188.64	1594.32	1654.11
Ex-Bus Generation (MU)									
Capacity(fixed) Charges	454.87	287.68	249.23	492.73	318.43	277.85	478.92	309.70	270.49
Variable Cost	402.35	348.68	374.60	798.97	409.61	441.29	699.12	372.90	386.88
Rate of Fixed Charge(Rs/kWh)	3.076	2.425	1.879	1.689	2.266	1.830	1.502	1.942	1.635
Rate of Variable Charge(Rs/kWh)	2.721	2.939	2.824	2.739	2.915	2.906	2.193	2.339	2.339
Rate of Sale of Energy (Rs/kWh)	5.797	5.364	4.703	4.428	5.181	4.736	3.694	4.281	3.974

## A9: FUEL COST ADJUSTMENT

9.1 As per RERC Tariff Regulations 2014, there is provision of fuel cost adjustment on account of fuel related costs of electricity generation to take care of any variation in the variable cost. RVUN request the Hon'ble Commission to consider the fuel cost adjustment with a drop down in GCV of 150 kCal/kWh.

## A10: RESPONDENTS:-

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

## A11: PRAYER

RVUN humbly requests the Hon'ble Commission to:

- ◆ Approval of ARR & Tariff for FY-2017-18.
- ◆ To allow adhoc tariff w.e.f. 1.4.17 for FY 2017-18 till final tariff order is issued as proposed in the petition.
- ◆ To condone any inadvertent omissions/errors/rounding off differences/ shortcomings and permit the Petitioner to add/alter this filing and make further submissions as may be required by the Hon'ble Commission; and
- ◆ And pass such other further orders as are deemed fit and proper in the facts and circumstances of the case

(Y. K. Upadhyay)  
Chief Accounts Officer (Comml.)

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

Form G 1.1

Summary of Tariff Proposal

Name of the Petitioner Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.  
 Name of the Power Station/Unit : Chhabra Thermal Power Project

(Rs. Crore)

S.No.	Particulars	Ref.of Form No	FY 2015-16					FY 2016-17						FY 2017-18			Remark
			Actual/Audited			Approved by the Commission		Apr-Sep (Actual)	Oct - March (Estimated)	Apr-Sep (Actual)	Oct - March (Estimated)	Apr-Sep (Actual)	Oct - March (Estimated)	Anticipated			
			Unit 1&2	Unit 3	Unit 4	Unit 1&2	Unit 4	Unit 1&2	Unit 3	Unit 4	Unit 1&2	Unit 3	Unit 4	Unit 1&2	Unit 3	Unit 4	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
1	Capacity (Fixed) Charge																
1.1	Depreciation	6.1	125.62	76.58	60.73	124.05	58.89	62.85	62.85	38.89	38.89	31.29	31.29	125.71	77.78	62.58	
1.2	Interest on term Loan & Transitional Loan	6.2	184.57	135.60	115.55	169.22	104.52	81.50	81.50	64.27	64.27	55.99	55.99	148.55	119.03	104.34	
1.3	Return on Equity	6.9	25.08	15.69	12.91	76.97	36.04	38.92	38.92	23.87	23.87	19.30	19.30	77.83	47.75	38.60	
1.4	Interest on Working Capital	6.11	39.79	16.99	17.21	30.03	16.29	16.92	18.63	8.73	10.30	9.39	9.98	30.90	17.17	17.01	
1.5	O & M Expenses	4.1	73.65	42.58	42.58	90.14	45.07	45.07	45.07	22.53	22.53	22.53	22.53	95.41	47.71	47.71	
1.6	Insurance Charges	6.12	3.09	1.54	1.54	2.49	1.25	1.62	1.62	0.81	0.81	0.81	0.81	3.40	1.70	1.70	
1.7	Tax on ROE	6.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1.8	Recovery of ARR and Tariff Petition Fee		0.25	0.13	0.13	0.25	0.13	0.13	0.13	0.06	0.06	0.06	0.06	0.25	0.13	0.13	
	Prior period expenses		5.67														
2	Less: Non-Tariff income	3.2	2.85	1.42	1.42	1.30	0.65	1.49	1.49	0.75	0.75	0.75	0.75	3.14	1.57	1.57	
	<b>Total (1)- Capacity (Fixed Charges)</b>		<b>454.87</b>	<b>287.68</b>	<b>249.23</b>	<b>491.85</b>	<b>261.54</b>	<b>245.51</b>	<b>247.22</b>	<b>158.43</b>	<b>160.00</b>	<b>138.63</b>	<b>139.22</b>	<b>478.92</b>	<b>309.70</b>	<b>270.49</b>	
2	<b>Total- Energy (variable) charges</b>		<b>402.35</b>	<b>348.68</b>	<b>374.60</b>	<b>630.87</b>	<b>348.99</b>	<b>366.37</b>	<b>432.61</b>	<b>179.31</b>	<b>230.30</b>	<b>210.99</b>	<b>230.30</b>	<b>699.12</b>	<b>372.90</b>	<b>386.88</b>	
3	Units sold to Discoms (MU)		1478.74	1186.38	1326.38			1326.90	1589.95	610.27	794.98	723.61	794.98	3188.64	1594.32	1654.11	
4	Rate of Fixed Charges. ( 1/3)		3.076	2.425	1.879	1.543	1.581	1.850	1.555	2.596	2.013	1.916	1.751	1.502	1.942	1.635	
5	Rate of Variable Charges.																
5.1	Rate of Energy Charge from Primary Fuel (REC) <sub>p</sub>	5.1															
	(i) Coal/Lignite		2.505	2.439	2.929			2.706	2.704	2.850	2.880	2.884	2.880	2.180	2.326	2.326	
	(ii) Imported Coal		0.116	0.063	0.050			0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
	(iii) Any Other fuel																
	Total 2.1																
5.2	Rate of Energy Charge from Secondary Fuel (REC) <sub>s</sub>	5.1	0.099	0.149	0.172	1.978	2.110	0.055	0.017	0.088	0.017	0.032	0.017	0.013	0.013	0.013	
5.3	Total-(2) Rate of Energy Charge ex-bus(REC) <sup>3A,3B</sup>	5.1	5.797	5.076	5.031	3.521	3.691	4.611	4.276	5.534	4.910	4.832	4.648	3.694	4.281	3.974	

<sup>1</sup> Details of calculations to be furnished.

## Form G 1.2

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

Aggregate Revenue Requirement  
Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.  
Chhabra Thermal Power Project

(Rs. Crore)

S.No.	Particulars	Reference Form	FY 2015-16					FY 2016-17						FY 2017-18			Remark
			Actual/Audited			Approved by the Commission		Apr-Sep (Actual)	Oct - March (Estimated)	Apr-Sep (Actual)	Oct - March (Estimated)	Apr-Sep (Actual)	Oct - March (Estimated)	Anticipated			
			Unit 1&2	Unit 3	Unit 4	Unit 1&2	Unit 3	Unit 1&2		Unit 3		Unit 4		Unit 1&2	Unit 3	Unit 4	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
<b>A</b>	<b>Receipts</b>																
1	Revenue from Sale of Power (Tariff income)	3.1	514.05	636.36	623.83	1122.72	610.53	611.88	679.83	337.75	390.30	349.62	369.52	1178.03	682.60	657.37	
2	Non Tariff income		2.85	1.42	1.42	1.30	0.65	1.49	1.49	0.75	0.75	0.75	0.75	3.14	1.57	1.57	
3	Revenue Subsidies, Grants & Subvention from State Govt.																
	<b>Total- (A)</b>		<b>860.06</b>	<b>637.78</b>	<b>625.26</b>	<b>1124.02</b>	<b>611.18</b>	<b>613.37</b>	<b>681.32</b>	<b>338.49</b>	<b>391.04</b>	<b>350.37</b>	<b>370.27</b>	<b>1181.17</b>	<b>684.16</b>	<b>658.94</b>	
<b>B</b>	<b>Expenditure</b>																
1	Variable Costs, including Fuel Cost	5.1	402.35	348.68	374.60	630.87	348.99	366.37	432.61	179.31	230.30	210.99	230.30	699.12	372.90	386.88	
2	Depreciation	6.1	125.62	76.58	60.73	124.05	58.89	62.85	62.85	38.89	38.89	31.29	31.29	125.71	77.78	62.58	
3	Interest on term Loan & Finance charges	6.2	184.57	135.60	115.55	169.22	104.52	81.50	81.50	64.27	64.27	55.99	55.99	148.55	119.03	104.34	
4	Return on Equity	6.9	25.08	15.69	12.91	76.97	36.04	38.92	38.92	23.87	23.87	19.30	19.30	77.83	47.75	38.60	
5	Tax on ROE	6.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6	Interest on Working Capital	6.11	39.79	16.99	17.21	30.03	16.29	16.92	18.63	8.73	10.30	9.39	9.98	30.90	17.17	17.01	
7	O & M Expenses	4.1	73.65	42.58	42.58	90.14	45.07	45.07	45.07	22.53	22.53	22.53	22.53	95.41	47.71	47.71	
8	Insurance Charges	6.14	3.09	1.54	1.54	2.49	1.25	1.62	1.62	0.81	0.81	0.81	0.81	3.40	1.70	1.70	
9	Recovery of ARR and Tariff Petition Fee		0.25	0.13	0.13	0.25	0.13	0.13	0.13	0.06	0.06	0.06	0.06	0.25	0.13	0.13	
10	Prior Period Expenses		5.67														
<b>C</b>	<b>Total- (B) Expenditure</b>		<b>860.06</b>	<b>637.78</b>	<b>625.26</b>	<b>1124.02</b>	<b>611.18</b>	<b>613.37</b>	<b>681.32</b>	<b>338.49</b>	<b>391.04</b>	<b>350.37</b>	<b>370.27</b>	<b>1181.17</b>	<b>684.16</b>	<b>658.94</b>	
<b>D</b>	<b>A.R.R. (C-A.2)</b>		<b>857.21</b>	<b>636.36</b>	<b>623.83</b>	<b>1122.72</b>	<b>610.53</b>	<b>611.88</b>	<b>679.83</b>	<b>337.75</b>	<b>390.30</b>	<b>349.62</b>	<b>369.52</b>	<b>1178.03</b>	<b>682.60</b>	<b>657.37</b>	

Form G 2.1				
Plant Characteristics				
Name of the Company	Rajasthan Rajya Vidut Utpadan Nigam Limited,Jaipur (Raj.)			
Name of the Power Station	ChhabraThermal Power Station,Chhabra			
Basic characteristics of the plant <sup>1</sup>	Conventional steam generator			
Special Features of the Plant				
Site Specific Features <sup>2</sup>	Close cycle cooling system			
Special Technological Features <sup>3</sup>	NA			
Environmental Regulation related features <sup>4</sup>	ESP			
Any other special features				
Fuel Details <sup>5</sup>	Primary Fuel	Secondary Fuel	Alternate Fuels	
	Pulverised Coal	FO/HSD/LDO	NA	
Details	Module number or Unit number(2017-18)			
	CTPP-Unit 1 & 2	Unit-3	CTPP unit 4	
Installed Capacity (IC)	2 x 250 MW	250 MW	250 MW	
Date of Commercial Operation (COD)	11/6/2010 for Unit 1 and 15/10/2011 for Unit 2	12/19/2013	12/30/2014	
Type of cooling system <sup>6</sup>	Cooling-Tower(closed cycle)	Cooling-Tower(closed cycle)	Cooling-Tower(closed cycle)	
Type of Boiler Feed Pump <sup>7</sup>	Motor driven	Motor driven	Motor driven	
Pressure (kg/cm2)	166.5	166.5	166.5	
Temperature OC				
-At Superheater Outlet	540	540	540	
-At Reheater Outlet	540	540	540	
Guaranteed Design Heat rate (kCal/kWh) <sup>8</sup>	2212.739289	2212.739289	2212.739289	
Conditions on which guaranteed				
100% MCR	737.6	737.6	737.6	
% Makeup	1	1	1	
Design Fuel	3500 kCal, ash Content 45%	3500 kCal, ash Content 45%	3500 kCal, ash Content 45%	
Design cooling water Temperature	CWT of 31	CWT of 31	CWT of 31	
Back Pressure	0.0992 KG/Cm2	0.0992 KG/Cm2	0.0992 KG/Cm2	

## Form G 2.2

## Operational Parameters - Generation

Name of the Petitioner

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.

Name of the Station/Unit:

Chhabra Thermal Power Project

S. No.	Particulars	Units	FY 2015-16					FY 2016-17						FY 2017-18			Remark
			Actual/Audited			Approved by the Commission		Apr-Sep (Actual)	Oct - March (Estimated)	Apr-Sep (Actual)	Oct - March (Estimated)	Apr-Sep (Actual)	Oct - March (Estimated)	Anticipated			
			Unit 1&2	Unit 3	Unit 4	Unit 1&2	Unit3	Unit 1&2		Unit 3		Unit 4		Unit 1&2	Unit 3	Unit 4	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
2	<b>Operational Parameters - Thermal</b>																
2.1	Total Capacity	MW	500	250	250	500	250	500	500	250	250	250	250	500	250	250	
2.2	Availability	%	44.29%	74.15%	78.58%	80.00%	80.00%	81.34%	80.00%	72.52%	80.00%	84.13%	80.00%	80.00%	80.00%	83.00%	
2.3	Plant Load Factor	%	37.00%	60.62%	67.31%	80.00%	80.00%	67.62%	80.00%	62.18%	80.00%	73.70%	80.00%	80.00%	80.00%	83.00%	
2.4	Gross Generation	MU	1664.61	1331.12	1478.16	3513.60	1756.80	1485.00	1747.20	682.74	873.60	809.18	873.60	3504.00	1752.00	1817.70	
2.5	Auxiliary Energy Consumption	%	11.17%	10.73%	10.17%	9.00%	9.00%	10.11%	9.00%	10.17%	9.00%	10.29%	9.00%	9.00%	9.00%	9.00%	
2.6	Auxiliary Energy Consumption	MU	185.87	142.82	150.35	316.22	158.11	150.45	157.25	69.41	78.62	83.24	78.62	315.36	157.68	163.59	
2.7	Net Generation	MU	1478.74	1186.38	1326.38	3197.38	1598.69	1326.90	1589.95	610.27	794.98	723.61	794.98	3188.64	1594.32	1654.11	
2.6	Heat Rate	Kcal/Kwh)	2746.31	3000.61	2897.22	2312.31	2312.31	2785.95	2684.75	2855.55	2769.20	2868.27	2769.20	2312.31	2312.31	2312.31	

Form G 3.1

## Revenue from Sale of Power

Name of the Company  
Name of the Power Station :  
FY 2015-16  
Unit 1&2

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.  
Chhabra Thermal Power Project

Rs. Crore

S.No.	Particulars	Allocation (in %)/contract demand	Unit Sold (M.U.)	% of total Unit Sold	Demand/fix ed Charges @	Energy Charges @	Others, if any	Total (6+7+8)	Average' rate/kWh (paisa/kWh)	Remarks
1	2	3	4	5	6	7	8	9	10	11
A)	Revenue from sale of Electricity(as per approved tariff)									
1	Dist.Licensee/trader/ consumers									
(a)	JVVNL		591.50	40.0%	181.9470372	160.9		342.89	579.69	
(b)	AVVNL		414.05	28.0%	127.3629261	112.7		240.02	579.69	
(c)	JDVVNL		473.20	32.0%	145.5576298	128.8		274.31	579.69	
2	Other recoveries									
3	<b>Gross Revenue From Sale of Power</b>				<b>454.8675931</b>	<b>402.35</b>				
4	less: i) State Levies Payable to Govt.									
5	Less. : ii) Revenue during trial runs (capitalised)									
6	<b>Net revenue</b>		<b>1478.74</b>		<b>454.87</b>	<b>402.35</b>		<b>857.21</b>		

FY 2015-16  
Unit 3

Rs. Crore

S.No.	Particulars	Allocation (in %)/contract	Unit Sold (M.U.)	% of total	Demand/fix ed Charges @	Energy	Others, if any	Total (6+7+8)	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)	JVVNL		474.55	40.0%	115.0719476	139.5		254.54	536.38	
(b)	AVVNL		332.19	28.0%	80.55036334	97.6		178.18	536.38	
(c)	JDVVNL		379.64	32.0%	92.0575581	111.6		203.63	536.38	
2	Other recoveries									
3	<b>Gross Revenue From Sale of Power</b>				<b>287.6798691</b>	<b>348.68</b>				
4	less: i) State Levies Payable to Govt.									
5	Less. : ii) Revenue during trial runs (capitalised)									
6	<b>Net revenue</b>		<b>1186.38</b>		<b>287.68</b>	<b>348.68</b>		<b>636.36</b>		

FY 2015-16  
Unit 4

Rs. Crore

S.No.	Particulars	Allocation (in %)/contract demand	Unit Sold (M.U.)	% of total Unit Sold	Demand/fix ed Charges @	Energy Charges @	Others, if any	Total (6+7+8)	Average' rate/kWh (paisa/kWh)	Remarks
1	2	3	4	5	6	7	8	9	10	11
A)	Revenue from sale of Electricity(as per approved tariff)									
1	Dist.Licensee/trader/ consumers									
(a)	JVVNL		530.55	40.0%	99.69247551	149.8		249.53	470.33	
(b)	AVVNL		371.39	28.0%	69.78473286	104.9		174.67	470.33	
(c)	JDVVNL		424.44	32.0%	79.75398041	119.9		199.63	470.33	
(d)										
2	Other recoveries									
3	<b>Gross Revenue From Sale of Power</b>				<b>249.2311888</b>	<b>374.60</b>				
4	less: i) State Levies Payable to Govt.									
5	Less. : ii) Revenue during trial runs (capitalised)									
6	<b>Net revenue</b>		<b>1326.38</b>		<b>249.23</b>	<b>374.60</b>		<b>623.83</b>		

## Form G 3.1

FY 2016-17  
Unit 1 & 2

Rs. Crore										
S.No.	Particulars	Allocation (in % )/contract demand	Unit Sold (M.U.)	% of total Unit Sold	Demand/fix ed Charges @	Energy Charges @	Others, if any	Total (6+7+8)	Average' rate/kWh (paisa/kWh)	Remarks
1	2	3	4	5	6	7	8	9	10	11
A)	Revenue from sale of Electricity(as per approved tariff)									
1	Dist.Licensee/trader/ consumers									
(a)	JVVNL		1166.74	40.0%	197.0930519	319.6		516.68	442.84	
(b)	AVVNL		816.72	28.0%	137.9651363	223.7		361.68	442.84	
(c)	JDVVNL		933.39	32.0%	157.6744415	255.7		413.35	442.84	
(d)										
2	Other recoveries									
3	<b>Gross Revenue From Sale of Power</b>				492.7326297	798.97				
4	less: i) State Levies Payable to Govt.									
5	Less. : ii) Revenue during trial runs (capitalised)									
6	<b>Net revenue</b>		2916.85		492.73	798.97		1291.71		

FY 2016-17  
Unit 3

Rs. Crore										
S.No.	Particulars	Allocation (in % )/contract demand	Unit Sold (M.U.)	% of total Unit Sold	Demand/fix ed Charges @	Energy Charges @	Others, if any	Total (6+7+8)	Average' rate/kWh (paisa/kWh)	Remarks
1	2	3	4	5	6	7	8	9	10	11
A)	Revenue from sale of Electricity(as per approved tariff)									
1	Dist.Licensee/trader/ consumers									
(a)	JVVNL		562.10	40.0%	127.3731656	163.8		291.22	518.09	
(b)	AVVNL		393.47	28.0%	89.16121595	114.7		203.85	518.09	
(c)	JDVVNL		449.68	32.0%	101.8985325	131.1		232.97	518.09	
(d)										
2	Other recoveries									
3	<b>Gross Revenue From Sale of Power</b>				318.4329141	409.61				
4	less: i) State Levies Payable to Govt.									
5	Less. : ii) Revenue during trial runs (capitalised)									
6	<b>Net revenue</b>		1405.24		318.43	409.61		728.04		

FY 2016-17  
Unit 4

Rs. Crore										
S.No.	Particulars	Allocation (in % )/contract demand	Unit Sold (M.U.)	% of total Unit Sold	Demand/fix ed Charges @	Energy Charges @	Others, if any	Total (6+7+8)	Average' rate/kWh (paisa/kWh)	Remarks
1	2	3	4	5	6	7	8	9	10	11
A)	Revenue from sale of Electricity(as per approved tariff)									
1	Dist.Licensee/trader/ consumers									
(a)	JVVNL		607.44	40.0%	111.1396529	176.5		287.66	473.56	
(b)	AVVNL		425.20	28.0%	77.79775701	123.6		201.36	473.56	
(c)	JDVVNL		485.95	32.0%	88.9117223	141.2		230.12	473.56	
(d)										
2	Other recoveries									
3	<b>Gross Revenue From Sale of Power</b>				277.8491322	441.29				
4	less: i) State Levies Payable to Govt.									
5	Less. : ii) Revenue during trial runs (capitalised)									
6	<b>Net revenue</b>		1518.59		277.85	441.29		719.14		

FY 2017-18  
Unit 1 & 2

Rs. Crore										
S.No.	Particulars	Allocation (in % )/contract demand	Unit Sold (M.U.)	% of total Unit Sold	Demand/fix ed Charges @	Energy Charges @	Others, if any	Total (6+7+8)	Average' rate/kWh (paisa/kWh)	Remarks
1	2	3	4	5	6	7	8	9	10	11
A)	Revenue from sale of Electricity(as per approved tariff)									
1	Dist.Licensee/trader/ consumers									
(a)	JVVNL		1275.46	40.0%	191.5670575	279.6		471.21	369.45	
(b)	AVVNL		892.82	28.0%	134.0969403	195.8		329.85	369.45	
(c)	JDVNL		1020.36	32.0%	153.253646	223.7		376.97	369.45	
(d)										
2	Other recoveries									
3	<b>Gross Revenue From Sale of Power</b>				<b>478.9176438</b>	<b>699.12</b>				
4	less: i) State Levies Payable to Govt.									
5	Less. : ii) Revenue during trial runs (capitalised)									
6	<b>Net revenue</b>		<b>3188.64</b>		<b>478.92</b>	<b>699.12</b>		<b>1178.03</b>		

FY 2017-18  
Unit 3

Rs. Crore										
S.No.	Particulars	Allocation (in % )/contract demand	Unit Sold (M.U.)	% of total Unit Sold	Demand/fix ed Charges @	Energy Charges @	Others, if any	Total (6+7+8)	Average' rate/kWh (paisa/kWh)	Remarks
1	2	3	4	5	6	7	8	9	10	11
A)	Revenue from sale of Electricity(as per approved tariff)									
1	Dist.Licensee/trader/ consumers									
(a)	JVVNL		637.73	40.0%	123.8786092	149.2		273.04	428.14	
(b)	AVVNL		446.41	28.0%	86.71502645	104.4		191.13	428.14	
(c)	JDVNL		510.18	32.0%	99.10288737	119.3		218.43	428.14	
3	<b>Gross Revenue From Sale of Power</b>				<b>309.696523</b>	<b>372.90</b>				
4	less: i) State Levies Payable to Govt.									
5	Less. : ii) Revenue during trial runs (capitalised)									
6	<b>Net revenue</b>		<b>1594.32</b>		<b>309.70</b>	<b>372.90</b>		<b>682.60</b>		

FY 2017-18  
Unit 4

Rs. Crore										
S.No.	Particulars	Allocation (in % )/contract demand	Unit Sold (M.U.)	% of total Unit Sold	Demand/fix ed Charges @	Energy Charges @	Others, if any	Total (6+7+8)	Average' rate/kWh (paisa/kWh)	Remarks
1	2	3	4	5	6	7	8	9	10	11
A)	Revenue from sale of Electricity(as per approved tariff)									
1	Dist.Licensee/trader/ consumers									
(a)	JVVNL		661.64	40.0%	108.1953426	154.8		262.95	397.42	
(b)	AVVNL		463.15	28.0%	75.73673979	108.3		184.06	397.42	
(c)	JDVNL		529.31	32.0%	86.55627404	123.8		210.36	397.42	
3	<b>Gross Revenue From Sale of Power</b>				<b>270.4883564</b>	<b>386.88</b>				
4	less: i) State Levies Payable to Govt.									
5	Less. : ii) Revenue during trial runs (capitalised)									
6	<b>Net revenue</b>		<b>1654.11</b>		<b>270.49</b>	<b>386.88</b>		<b>657.37</b>		



## NON-TARIFF INCOME

Name of the Petitioner Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.  
Name of the Power Station/ Unit: Chhabra Thermal Power Project

Rs. Crore

S. No.	Particulars	Previous Year			Current Year									Ensuing Year			Remarks	
		FY 2015-16			FY 2016-17									FY 2017-18				
		(Actuals/audited)			Approved by the Commission			Apr-Sep (Actual)	Oct - March (Estimated)	Apr-Sep (Actual)	Oct - March (Estimated)	Apr-Sep (Actual)	Oct - March (Estimated)	(Anticipated)				
1	2	Unit 1&2	Unit 3	Unit 4	Unit 1&2	Unit 3	Unit 4	Unit 1&2	Unit 3	Unit 4	Unit 1&2	Unit 3	Unit 4	13	14	15	16	
	<b>Non Tariff Income</b>																	
i.	Intt on Govt. Subsidy	-	-					-	-	-	-			-	-			
ii.	Conveyance Advance	-	-					-	-	-	-			-	-			
iii.	House Building Advance	-	-					-	-	-	-			-	-			
iv.	Income from F.D.R. with Banks	-	-					-	-	-	-			-	-			
v.	Sale of scrap	-	-					-	-	-	-			-	-			
vi.	MISCELLANEOUS RECEIPTS	2.85	1.42	1.42	1.30	0.65	0.65	1.49	1.49	0.75	0.75	0.75	0.75	3.14	1.57	1.57		
	<b>Total non-tariff income</b>	<b>2.85</b>	<b>1.42</b>	<b>1.42</b>	<b>1.30</b>	<b>0.65</b>	<b>0.65</b>	<b>1.49</b>	<b>1.49</b>	<b>0.75</b>	<b>0.75</b>	<b>0.75</b>	<b>0.75</b>	<b>3.14</b>	<b>1.57</b>	<b>1.57</b>		

## REVENUE SUBSIDIES &amp; GRANTS

Name of the Petitioner:

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.

Name of the Power Station/Unit :

Chhabra Thermal Power Project

S. No.	Particulars	FY 2015-16	FY 2016-17			FY 2017-18	Remarks
		(Actuals/audited )	Approved by the Commission	Apr-Sep (Actual)	Estimated for the year	(Anticipated)	
1	2	3	4	5	6	7	8
A)	<b>Revenue Subsidies &amp; Grants</b>	N.A.					
1	Subvention from State Government towards sale of electricity						
2	State Govt. Grant against addl. Intt. Liability on Company						
3	Any Other item						
	<b>Total</b>						

Form G 3.4

Capital Subsidies and Grants

Name of the Petitioner:

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.

Name of the Power Station/Unit :

Chhabra Thermal Power Project

Rs. Crore

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

N.A

Form G 4.1

O&M Expenses

Name of the Petitioner:

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.

Name of the Station/Unit:

Chhabra Thermal Power Project

(Rs. Crore)

S.No.	Particulars	FY 2015-16			FY 2016-17								FY 2017-18			
		(Actuals/Audited)	(Actuals/Audited)	(Actuals/Audited)	Approved by the Commission			Apr-Sep (Actual)	Oct - March (Estimated)	Apr-Sep (Actual)	Oct - March (Estimated)	Apr-Sep (Actual)	Oct - March (Estimated)	(Anticipated)	(Anticipated)	(Anticipated)
		Unit 1&2	Unit 3	Unit 4	Unit 1&2	Unit 3	Unit 4	Unit 1&2		Unit 3		Unit 4		Unit 1&2	Unit 3	Unit 4
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
1	O&M Expense norms (Rs. per MW)	0.15	0.09	0.09				0.18	0.18	0.09	0.09	0.09	0.09	0.19	0.19	0.19
2	Total Capacity in MW	500	250	250				250	250	250	250	250	250	500	250	250
3	O&M expense	73.65	42.58	42.58				45.07	45.07	22.53	22.53	22.53	22.53	95.41	47.71	47.71
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>Pumping Station No.1 :-</b>															
b.1	Power consumption Cost															
b.2	Repair / Maintenance / Employee / other Cost															
b.3	Sub total (b)															
c	<b>Pumping Station No.2 :-</b>															
	and so on .....															
d	Total (4) Special O&M Expenses															
5	<b>Total O&amp;M expenses</b>	<b>73.65</b>	<b>42.58</b>	<b>42.58</b>	<b>90.14</b>	<b>45.07</b>	<b>45.07</b>	<b>45.07</b>	<b>45.07</b>	<b>22.53</b>	<b>22.53</b>	<b>22.53</b>	<b>22.53</b>	<b>95.41</b>	<b>47.71</b>	<b>47.71</b>

## Energy Charges for Thermal Generation

Form G.5.3

Name of the Petitioner:

Rajasthan Raja Vidhyut Utpadan Nigam Ltd.

Name of the Power Station/Unit:

Chhabra Thermal Power Project

S.No.	Particulars	Units	FY 2015-16			FY 2016-17							FY 2017-18			Remarks			
			April-March (Audited)	April-March (Audited)	April-March (Audited)	Approved by the Commission				Apr-Sep (Actual)	Oct - March (Estimated)	Apr-Sep (Actual)	Oct - March (Estimated)	Apr-Sep (Actual)	Oct - March (Estimated)		Anticipated		
						Unit 1&2	Unit 3	Unit 4	Unit 1&2								Unit 3	Unit 4	Unit 1&2
			4	5	6	7	8	9	10	11	12	13	14	15	16				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17			
1	<b>Operational Parameters</b>																		
1.1	Total Capacity	MW	500.00	250.00	250.00	500.00	500.00	250.00	250.00	500.00	500.00	250.00	250.00	500.00	250.00	250.00			
1.2	Availability	%	44.29%	74.15%	78.58%	0.80	0.00	0.00	0.00	81.34%	80.00%	72.52%	80.00%	84.13%	80.00%	80.00%	83.00%		
1.3	PLF	%	37.00%	60.62%	67.31%	0.80	80.00%	80.00%	83.00%	67.62%	80.00%	62.18%	80.00%	73.70%	80.00%	80.00%	83.00%		
1.4	<b>Gross Generation</b>	<b>MU</b>	<b>1664.61</b>	<b>1331.12</b>	<b>1478.16</b>	3513.60	3504.00	1752.00	1817.70	<b>1485.00</b>	<b>1747.20</b>	<b>682.74</b>	<b>873.60</b>	<b>809.18</b>	<b>873.60</b>	<b>3504.00</b>	<b>1752.00</b>	<b>1817.70</b>	
1.5	Auxiliary Energy Consumption	%	11.17%	11%	10.17%	0.09	9.00%	9.00%	9.00	10.11%	9.00%	10.17%	9.00%	10.29%	9.00%	9.00%	9.00%		
1.6	Auxiliary Energy Consumption	MU	185.87	142.82	150.35	316.22	315.36	157.68	163.59	150.45	157.25	69.41	78.62	83.24	78.62	315.36	157.68	163.59	
1.7	<b>Net Generation</b>	<b>MU</b>	<b>1478.74</b>	<b>1188.38</b>	<b>1328.38</b>	3197.38	3188.64	1594.32	1654.11	<b>1326.90</b>	<b>1589.95</b>	<b>610.27</b>	<b>794.98</b>	<b>723.61</b>	<b>794.98</b>	<b>3188.64</b>	<b>1594.32</b>	<b>1654.11</b>	
1.8	Heat Rate	kcal/kWh	2746.31	3000.61	2897.22	2312.31	2312.31	2312.31	2312.31	2785.95	2684.75	2855.55	2769.20	2868.27	2769.20	2312.31	2312.31	2312.31	
2	<b>Fuel Parameters (for each primary and secondary fuel)</b>																		
2.1	Gross Calorific Value																		
2.1.1	Fuel - 1 (Indigenous Coal)	kcal/Kg	4249.96	4345.59	4345.59	4220.32	4379.85	4379.85	4084.74	4084.74	4198.89	4198.89	4198.89	4198.89	4198.89	4122.07	4251.77	4251.77	
2.1.2	Fuel - 2 (HFO)	kcal/Ltr.	10504.00	10504.00	10504.00	10200.00	10200.00	10200.00	10540.00	10540.00	10504.00	10504.00	10504.00	10504.00	10504.00	10504.00	10504.00	10504.00	
2.1.3	Fuel - 3 (LDO)	kcal/Ltr.	12000.00	12000.00	12000.00	10312.00	10312.00	10312.00	11200.00	11200.00	12000.00	12000.00	12000.00	12000.00	12000.00	12000.00	12000.00	12000.00	
2.1.4	Fuel - 4 (Imported Coal)	kcal/Kg	6357.01	6357.58	6357.58	0.00	0.00	0.00											
2.2	<b>Landed Fuel Price per unit (Please specify the fuel)</b>																		
2.2.1	Fuel - 1 (Indigenous Coal)	Rs/MT	3356.93	3636.81	3636.81	3271.08	3621.60	3621.60	3605.68	3785.96	3840.38	4032.39	3840.38	4032.39	3544.05	3901.09	3901.09		
2.2.2	Fuel - 2 (HFO)	Rs/KL	28121.45	28120.61	28120.61	22881.40	22881.40	22881.40	22366.24	23484.55	22366.24	23484.55	22366.24	23484.55	21779.09	21779.09	21779.09		
2.2.3	Fuel - 3 (LDO)	Rs/KL	44413.34	44407.28	44407.28	37312.50	37312.50	37312.50	38453.23	40375.89	38453.23	40375.89	38453.23	40375.89	38188.79	38188.79	38188.79		
2.2.4	Fuel - 4 (Imported Coal)	Rs/MT	7120.03	7120.40	7120.40	0.00	0.00	0.00											
3	<b>Fuel Consumption and Heat Contribution (for each fuel separately)</b>																		
3.1	Specific Fuel Consumption																		
3.1.1	Fuel - 1 (Indigenous Coal)	Kg/ kWh	0.62	0.67	0.65					0.67	0.65	0.66	0.65	0.67	0.65	0.56	0.54		
3.1.2	Fuel - 2 (HFO)	MJ/ kWh	2.64	3.63	3.55					1.92	0.30	2.90	0.30	1.12	0.30	0.45	0.45		
3.1.3	Fuel - 3 (LDO)	MJ/ kWh	0.32	0.70	0.86					0.17	0.20	0.35	0.20	0.08	0.20	0.05	0.05		
3.1.4	Fuel - 4 (Imported Coal)	Kg/ kWh	0.01	0.01	0.01					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
3.2	<b>Total Fuel Consumption</b>																		
3.2.1	Fuel - 1 (Indigenous Coal)	MT	1027220.59	889621.26	955591.98					995663.25	1135680.00	452964.00	567840.00	543441.37	567840.00	1961072.49	950625.04	986273.48	
3.2.2	Fuel - 2 (HFO)	KL	4388.82	4831.96	5251.77					2855.13	524.16	1982.68	262.08	908.43	262.08	1576.80	788.40	817.97	
3.2.3	Fuel - 3 (LDO)	KL	528.67	927.42	1268.09					254.32	349.44	240.14	174.72	67.16	174.72	175.20	87.60	90.89	
3.2.4	Fuel - 4 (Imported Coal)	MT	24138.00	10437.00	9368.68					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
3.3	<b>Heat Content (each fuel separately)</b>																		
3.3.1	Fuel 1 (2.1.1 x 3.1.1)	Million kcal	4365646.42	3865929.25	4152610.95					4067025.50	4638957.52	1901946.01	2384297.70	2281850.53	2384297.70	8083678.09	4041839.05	4193408.01	
3.3.2	Fuel 2 (2.1.2 x 3.1.2)	Million kcal	46100.17	50754.91	55164.59					30093.07	5524.65	20826.08	2752.89	9542.16	2752.89	16562.71	8281.35	8591.90	
3.3.3	Fuel 3 (2.1.3 x 3.1.3)	Million kcal	6344.04	11129.04	15217.08					2848.38	3913.73	2881.68	2096.64	805.93	2096.64	2102.40	1051.20	1090.62	
3.3.4	Fuel 4 (2.1.4 x 3.1.4)	Million kcal	153445.51	66354.06	59562.13					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
	Total Heat Content																		
4	<b>Total Fuel Cost</b>																		
4.1.1	Fuel 1 (Indigenous Coal) (2.2.1 x 3.2.1)	Rs Crore	344.83	323.54	347.53					359.00	429.96	173.96	228.98	208.70	228.98	695.01	370.85	384.75	
4.1.2	Fuel 2 (HFO) (2.2.2 x 3.2.2)	Rs Crore	12.34	13.59	14.77					6.39	1.23	4.43	0.62	2.03	0.62	3.43	1.72	1.78	
4.1.3	Fuel 3 (LDO) (2.2.3 x 3.2.3)	Rs Crore	2.35	4.12	5.63					0.98	1.41	0.92	0.71	0.26	0.71	0.67	0.33	0.35	
4.1.4	Fuel 4 (Imported Coal) (2.2.4 x 3.2.4)	Rs Crore	17.19	7.43	6.67					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
	Total Fuel Cost	Rs Crore	376.71	348.68	374.60	630.87				366.37	432.61	179.31	230.30	210.99	230.30	699.12	372.90	386.88	
5	<b>Details of limestone consumption (Applicable for Lignite based generating stations)</b>																		
6	<b>Other Charges and Adjustments</b>		25.64																
7	<b>Total Cost (4+5+6)</b>	<b>Rs Crore</b>	<b>402.35</b>	<b>348.68</b>	<b>374.60</b>					<b>366.37</b>	<b>432.61</b>	<b>179.31</b>	<b>230.30</b>	<b>210.99</b>	<b>230.30</b>	<b>699.12</b>	<b>372.90</b>	<b>386.88</b>	
8	<b>Cost of Generation per unit (at Generation Terminal) (7/1.4)</b>	<b>Rs/kWh</b>	<b>2.42</b>	<b>2.62</b>	<b>2.53</b>	<b>1.80</b>	<b>1.92</b>	<b>1.92</b>	<b>2.47</b>	<b>2.48</b>	<b>2.63</b>	<b>2.64</b>	<b>2.61</b>	<b>2.64</b>	<b>2.00</b>	<b>2.13</b>	<b>2.13</b>		
	<b>Energy Charge per unit (ex-bus) (7/1.7)</b>					<b>1.98</b>	<b>2.11</b>	<b>2.11</b>											
9																			
9.1.1	Fuel - 1 (Indigenous Coal)	Rs/kWh	2.51	2.44	2.93					2.71	2.70	2.85	2.88	2.88	2.88	2.18	2.33		
9.1.2	Fuel - 2 (HFO)	Rs/kWh	0.08	0.11	0.12					0.05	0.01	0.07	0.01	0.03	0.01	0.01	0.01		
9.1.3	Fuel - 3 (LDO)	Rs/kWh	0.02	0.03	0.05					0.01	0.01	0.02	0.01	0.01	0.01	0.00	0.00		
9.1.4	Fuel - 4 (Imported Coal)	Rs/kWh	0.12	0.06	0.06					0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
	<b>Total---(9)</b>	<b>Rs/kWh</b>	<b>2.72</b>	<b>2.94</b>	<b>2.82</b>					<b>2.76</b>	<b>2.72</b>	<b>2.94</b>	<b>2.90</b>	<b>2.92</b>	<b>2.90</b>	<b>2.19</b>	<b>2.34</b>		

<b>Details / Information to be submitted in respect of Fuel for Computation of Energy Charges for FPA of Indigenous Coal for CTPP</b>					
<b>Unit1&amp;2 during FY 2016-17</b>					
<b>Name of Company : - RAJASTHAN RAJYA VIDYUT UTPADAN NIGAM LIMITED</b>					
<b>Name of the Power Station: - CHHABRA THERMAL POWER PROJECT</b>					
<b>S. No</b>	<b>Month</b>	<b>Unit</b>	<b>April'2016</b>	<b>May'2016</b>	<b>June'2016</b>
			<b>Domestic coal</b>	<b>Domestic coal</b>	<b>Domestic coal</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
1	Quantity of coal/lignite instock at the beginning of the month	(MT)	156588.88	37110.88	0.00
2	Quantity of Coal/Lignite supplied by Coal/Lignite Company	(MT)	64276.79	127609.80	163628.69
3	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company for diversion of wagons etc.	(MT)	0.00	0	0
4	Coal supplied by Coal/Lignite Company (2+3)	(MT)	64276.79	127609.80	163628.69
5	Normative Transit & Handling Losses (For coal/Lignite based Projects)	(MT)	275.52	858.12	1281.12
6	Net coal / Lignite Supplied (4-5)	(MT)	64001.27	126751.68	162347.57
6A	Carpet/Residual Coal Recovered/Used	(MT)	0.00	0.00	0.00
7	<b>Total coal (Receipts &amp; Opening Stock+Carpet/Residual coal) (1)+(6)+(6A)</b>	(MT)	220590.15	163862.56	162347.57
7a	coal receipt from the available stock of Unit#3&4, i.e. PKCL coal	(MT)	0.00	26709.12	0.00
7+7a	<b>Total Receipt of coal SECL &amp; PKCL</b>	(MT)	220590.15	190571.68	162347.57
8	coal/lignite burnt/consumed in Unit#3&4	(MT)	0.00	0.00	0.00
8a	Balance usable coal in Unit#1&2	(MT)	220590.15	190571.68	162347.57
8b	Coal consumed for generation of power from Unit#1&2	(MT)	183479.27	190571.68	149283.00
9	Coal/lignite in stock at the end of the month	(MT)	37110.88	0.00	13064.57
10	Value of coal/lignite in stock at the beginning of the month	(Rs.)	523443464	126369612	0
11	Amount charged by the Coal/Lignite Company	(Rs.)	138145663	275169721	367686510
12	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)	0	0	0
13	<b>Total amount Charged (11+12)</b>	(Rs.)	138145663	275169721	367686510
14	Transportation charges by rail/ship/road transport	(Rs.)	88745796	175028725	217160388
15	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)	0	0	0
16	Demurrage Charges and other coal cost, if any	(Rs.)	816539	1701216	1389318
17	<b>Total Transportation Charges (14+/-15+16)</b>	(Rs.)	89562335	176729941	218549706
18 a	Coal cost, used from (unit # 3&4)	(Rs.)	0	103972411	0
18 b	Coal cost, used in (unit # 3&4)	(Rs.)	0	0	0
19	<b>Total amount Charged for coal/lignite supplied including Transportation &amp; coal cost of other units (13+17+18a-18b)</b>	(Rs.)	227707998	555872073	586236216
20	<b>Average cost of coal/lignite ((10) +(19)) / (8a)</b>	(Rs/MT)	3405.19	3579.97	3610.99
21	<b>Cost of coal in stock at the end of the month (20)x(9)</b>	(Rs.)	126369612	0	47176093
22	<b>Transit loss amount</b>	(Rs.)	976748	3047883	4615154
23	Weighted average GCV of coal/ Lignite as ARB basis	(kCal/Kg)	4181.00	4117.09	4056.00
24	Weighted average Sulphur content	(%)			
<b>WTD AVG COAL COST for the quarter</b>			<b>3544.05</b>		
WT AVG GCV of coal for The Quarter as ARB basis			<b>4122.07</b>		

<b>Details / Information to be submitted in respect of Fuel for Computation of Energy Charges for FPA of Indigenous Coal received from M/S PKCL for CTPP Unit3&amp;4</b>					
<b>Name of Company :- RAJASTHAN RAJYA VIDYUT UTPADAN NIGAM LIMITED</b>					
<b>Name of the Power Station:- CHHABRA THERMAL POWER PROJECT</b>					
S. No	Month	Unit	April'2016	May'2016	June'2016
			PKCL COAL	PKCL COAL	PKCL COAL
1	2	3	4	5	6
1	Quantity of coal/lignite instock at the beginning of the month	(MT)	123411.12	146889.12	128000.00
2	Quantity of Coal/Lignite supplied by Coal/Lignite Company	(MT)	209775.81	163153.45	202719.41
3	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company for diversion of wagons etc.	(MT)	7813.19	19481.55	0
4	Coal supplied by Coal/Lignite Company (2+3)	(MT)	217589.00	182635.00	202719.41
5	Normative Transit & Handling Losses (For coal/Lignite based Projects)	(MT)	0.00	0.00	0.00
6	Net coal/ Lignite Supplied (4-5)	(MT)	217589.00	182635.00	202719.41
6A	Carpet/Residual Coal Recovered/Used	(MT)	0.00	0.00	0.00
7	Total coal (Receipts & Opening Stock+Carpet/Residual coal) (1)+(6)+(6A)	(MT)	341000.12	329524.12	330719.41
7a	coal receipt from the available stock of Unit#1&2	(MT)	0.00	0.00	0.00
7+7a	Total Receipt of coal	(MT)	341000.12	329524.12	330719.41
8	Coal burnt/consumed in Unit#1&2	(MT)	0	26709.12	0
8a	Balance Usable coal in Unit#3&4	(MT)	341000.12	302815.00	330719.41
8b	Coal consumed for generation of power from Unit#3&4	(MT)	194111.00	174815.00	133783.98
9	Coal/lignite in stock at the end of the month	(MT)	146889.12	128000.00	196935.43
10	Value of coal/lignite in stock at the beginning of the month	(Rs.)	483784843	575007766	498274321
11	Amount charged by the Coal/Lignite Company	(Rs.)	524171675	401826218	503513729
12	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)	19522999	47980582	0
13	Total amount Charged (11+12)	(Rs.)	543694674	449806800	503513729
14	Transportation charges by rail/ship/road transport	(Rs.)	293771384	228475252	283768911
15	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)	10941641	27281385	0
16	Demurrage Charges & other coal cost, if any	(Rs.)	2676353	2189790	1734805
17	Total Transportation Charges (14+15+16)	(Rs.)	307389378	257946427	285503716
18 a	Coal cost Used from Unit#1&2	(Rs.)	0	0	0
18 b	Coal cost Used in Unit#1&2	(Rs.)	0	103972411	0
19	Total amount Charged for coal/lignite supplied including Transportation & coal cost of other units (13+17+18a-18b)	(Rs.)	851084052	603780816	789017445
20	Average cost of coal/lignite ((10) +(19)) / (7)	(Rs/MT)	3914.57	3892.77	3892.40
21	Cost of coal in stock at the end of the month (20)x(9)	(Rs.)	575007766	498274321	766551191
22	Transit loss amount	(Rs.)	0	0	0
23	Weighted average GCV of coal/ Lignite as Received (on ARB basis)	(kCal/Kg)	4290.00	4252.00	4196.00
24	Weighted average Sulphur content	(%)			
<b>WTD AVG COAL COST for the quarter</b>			<b>3901.09</b>		
WT AVG GCV for the Quarter on ARB Basis			<b>4251.77</b>		

**Cost of Oil for the Calculation of FPA**

**Name of Company RVUNL**

**Name of Power Station CTPP, Chhabra**

**Date:- For Unit # 1 to 4**

S. No.	Particulars	Unit	Apr-16		May-16		Jun-16		Quarter Ending June-16		
			FO	LDO	FO	LDO	FO	LDO	FO	LDO	Total
1	Quantity if Sec. Fuel Oil (FO,HSD,LDO) in Stock at the begging of the Month	KL	2904.49	511.93	2116.35	462.21	3636.57	283.67	2904.49	511.93	3416.43
2	Quantity if Sec. Fuel Oil (FO,HSD,LDO) Supplied by Company	KL	0.00	0.00	2939.50	0.00	0.00	313.00	2939.50	313.00	3252.50
3	Adjustment (+/-) In quantity of Sec. Fuel Oil (FO,HSD,LDO) Supplied by Company	KL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>4</b>	<b>Oil (FO,HSD,LDO) Supplied by Company (2+3)</b>	<b>KL</b>	<b>0.00</b>	<b>0.00</b>	<b>2939.50</b>	<b>0.00</b>	<b>0.00</b>	<b>313.00</b>	<b>2939.50</b>	<b>313.00</b>	<b>3252.50</b>
5	Normative / Transit Loss	KL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>
<b>6</b>	<b>Oil (FO,HSD,LDO) Supplied by Company (4-5)</b>	<b>KL</b>	<b>0.00</b>	<b>0.00</b>	<b>2939.50</b>	<b>0.00</b>	<b>0.00</b>	<b>313.00</b>	<b>2939.50</b>	<b>313.00</b>	<b>3252.50</b>
<b>7</b>	<b>Total Oil Receipt &amp; in Stock (1+6)</b>	<b>KL</b>	<b>2904.49</b>	<b>511.93</b>	<b>5055.85</b>	<b>462.21</b>	<b>3636.57</b>	<b>596.67</b>	<b>5843.99</b>	<b>824.93</b>	<b>6668.93</b>
8	Oil Consumed	KL	788.14	49.72	1419.28	178.54	688.66	103.96	2896.08	332.22	3228.30
<b>9</b>	<b>Oil in Stock at the end of Month</b>	<b>KL</b>	<b>2116.35</b>	<b>462.21</b>	<b>3636.57</b>	<b>283.67</b>	<b>2947.91</b>	<b>492.71</b>	<b>2947.91</b>	<b>492.71</b>	<b>3440.63</b>
10	Value of Oil in Stock	Rs.	59579004	19101572	43412108	17246394	79201204	10584620	59579004	19101572	78680576
11	Amount Charged by Company	Rs.	0	0	64757014	0	0	11846284	64757014	11846284	76603298
12	Adjustment (+/-) in Amount Charged by Company	Rs.	0	0	0	0	0	0	0	0	0
<b>13</b>	<b>Total Amount Charged (10+11+12)</b>	<b>Rs.</b>	<b>0</b>	<b>0</b>	<b>64757014</b>	<b>0</b>	<b>0</b>	<b>11846284</b>	<b>64757014</b>	<b>11846284</b>	76603298
14	Transportation Charges	Rs.	0	0	0	0	0	0	0	0	0
15	Adjustment (+/-) in Transportation Charges	Rs.	0	0	0	0	0	0	0	0	0
16	Demurrage Charges & Entry Tax Cost If any	Rs.	0	0	1942710	0	0	355389	1942710	355389	2298099
17	Cost of Diesel in Transporting Oil through MGR System if Applicable	Rs.	0	0	0	0	0	0	0	0	0
<b>18</b>	<b>Total Transportation Charges(14+15+16+17)</b>	<b>Rs.</b>	<b>0</b>	<b>0</b>	<b>1942710</b>	<b>0</b>	<b>0</b>	<b>355389</b>	<b>1942710</b>	<b>355389</b>	<b>2298099</b>
19	Total Amount Charged for Oil including Transportation (13+18)	Rs.	0	0	66699724	0	0	12201673	66699724	12201673	78901397
20	Average Cost of Oil (in Stock+Receipt)(19/7)	Rs.	20512.72	37312.50	21779.09	37312.50	21779.09	38188.79	21779.09	38188.79	24129.04
<b>21</b>	<b>Cost of Oil in Stock at the end of Month</b>	<b>Rs.</b>	<b>43412108</b>	<b>17246394</b>	<b>79201204</b>	<b>10584620</b>	<b>64202815</b>	<b>18816186</b>	<b>64202815</b>	<b>18816186</b>	<b>83019001</b>
22	WTG AVG GCV of Oil Fired	<b>Rs.</b>									



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

Name of the Petitioner      Rajasthan Raja Vidhyut Utpadan Nigam Ltd.

Name of the Power Station :    Chhabra Thermal Power Plant Project

Fixed Assets and Provision for Depreciation for CTPP for 2015-16, Unit 1&2													
S.No.	Assets Group	A/c Code	Rate of Depreciation	Gross fixed Assets				Provisions for depreciation				Net fixed Assets	
				At the	Additions during	Adjust. &	At the	Cumulati	Additions	Adjust.	Cumulati	At the	At the
1	Land & Land Rights	10.1xxx	Nil	11.10	0.00	0.00	11.10	0.00	0.00	0.00	0.00	11.10	11.10
2	Building & Civil	10.2xxx	3.34	204.46	0.00	0.00	204.46	30.03	6.83	0.00	36.86	174.43	167.60
3	Hydraulic Works	10.3xxx	5.28	104.00	0.72	0.00	104.72	20.94	5.51	0.00	26.45	83.06	78.27
4	Other Civil Works	10.4xxx	3.34	35.37	0.00	0.00	35.37	7.81	1.18	0.00	9.00	27.56	26.38
5	Plant & Machinery	10.5xxx	5.28	2088.59	2.59	0.00	2091.18	440.34	110.35	0.00	550.69	1648.25	1540.49
6	Lines & Cable Net wor	10.6xxx	5.28	29.47	0.00	0.00	29.47	6.29	1.56	0.00	7.85	23.18	21.62
7	Vehicles	10.7xxx	9.5	0.25	0.00	0.00	0.25	0.08	0.02	0.00	0.11	0.17	0.14
8	Furniture & Fixtures	10.8xxx	6.33	1.70	0.00	0.00	1.70	0.32	0.11	0.00	0.43	1.38	1.27
9	Office Equipments	10.9xxx	6.33	1.02	0.00	0.00	1.02	0.13	0.06	0.00	0.19	0.89	0.82
10	Capital Spares	11.3xxx	5.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL				2475.96	3.31	0.00	2479.27	505.96	125.62	0.00	631.57	1970.00	1847.70

Fixed Assets and Provision for Depreciation for CTPP for 2016-17, Unit 1&2													
S.No.	Assets Group	A/c Code	Rate of Depreciation	Gross fixed Assets				Provisions for depreciation				Net fixed Assets	
				At the	Additions during	Adjust. &	At the	Cumulati	Additions	Adjust.	Cumulati	At the	At the
1	Land & Land Rights	10.1xxx	Nil	11.10	0.00	0.00	11.10	0.00	0.00	0	0.00	11.10	11.10
2	Building & Civil	10.2xxx	3.34	204.46	0.00	0.00	204.46	36.86	6.83	0.00	43.69	167.60	160.77
3	Hydraulic Works	10.3xxx	5.28	104.72	0.00	0.00	104.72	26.45	5.53	0.00	31.98	78.27	72.74
4	Other Civil Works	10.4xxx	3.34	35.37	0.00	0.00	35.37	9.00	1.18	0.00	10.18	26.38	25.20
5	Plant & Machinery	10.5xxx	5.28	2091.18	0.00	0.00	2091.18	550.69	110.41	0.00	661.10	1540.49	1430.08
6	Lines & Cable Net work	10.6xxx	5.28	29.47	0.00	0.00	29.47	7.85	1.56	0.00	9.41	21.62	20.06
7	Vehicles	10.7xxx	9.5	0.25	0.00	0.00	0.25	0.11	0.02	0.00	0.13	0.14	0.12
8	Furniture & Fixtures	10.8xxx	6.33	1.70	0.00	0.00	1.70	0.43	0.11	0.00	0.54	1.27	1.16
9	Office Equipments	10.9xxx	6.33	1.02	0.00	0.00	1.02	0.19	0.06	0.00	0.26	0.82	0.76
10	Capital Spares	11.3xxx	5.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL				2479.27	0.00	0.00	2479.27	631.57	125.71	0.00	757.28	1847.70	1721.99

Fixed Assets and Provision for Depreciation for CTPP for 2017-18, Unit 1&2													
S.No.	Assets Group	A/c Code	Rate of Depreciation	Gross fixed Assets				Provisions for depreciation				Net fixed Assets	
				At the	Additions during	Adjust. &	At the	Cumulati	Additions	Adjust.	Cumulati	At the	At the
1	Land & Land Rights	10.1xxx	Nil	11.10	0.00	0.00	11.10	0.00	0.00	0	0.00	11.10	11.10
2	Building & Civil	10.2xxx	3.34	204.46	0.00	0.00	204.46	43.69	6.83	0.00	50.52	160.77	153.94
3	Hydraulic Works	10.3xxx	5.28	104.72	0.00	0.00	104.72	31.98	5.53	0.00	37.51	72.74	67.21
4	Other Civil Works	10.4xxx	3.34	35.37	0.00	0.00	35.37	10.18	1.18	0.00	11.36	25.20	24.01
5	Plant & Machinery	10.5xxx	5.28	2091.18	0.00	0.00	2091.18	661.10	110.41	0.00	771.52	1430.08	1319.66
6	Lines & Cable Net work	10.6xxx	5.28	29.47	0.00	0.00	29.47	9.41	1.56	0.00	10.96	20.06	18.51
7	Vehicles	10.7xxx	9.5	0.25	0.00	0.00	0.25	0.13	0.02	0.00	0.15	0.12	0.10
8	Furniture & Fixtures	10.8xxx	6.33	1.70	0.00	0.00	1.70	0.54	0.11	0.00	0.64	1.16	1.06
9	Office Equipments	10.9xxx	6.33	1.02	0.00	0.00	1.02	0.26	0.06	0.00	0.32	0.76	0.69
10	Capital Spares	11.3xxx	5.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL				2479.27	0.00	0.00	2479.27	757.28	125.71	0.00	882.99	1721.99	1596.28

**RAJASTHAN RAJYA VIDYUT UTPADAN NIGAM LIMITED**  
**CHHABRA THERMAL POWER PROJECT, RVUNL, CHHABRA**

**Fixed Assets & Provisions for Depreciation 2015-16 for Stage-I, Phase II Unit # 3 (COD 19.12.2013)**

Format 6.1												(Rs. In Crore)		
S. No	Particulars	A/c Code	Rate of Dep. %	Gross Fixed Assets (2015-16)				Provisions for depreciation (2015-16)				Net Fixed Assets		
				At the	Additions during	Additions &	At the end	Cumulative	Additions	Adjust	Cumulative	At the	At the end	
1	Land and Land Rights	10.101	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	Building & Civil Works	10.200	3.34	122.45	13.10	0.00	135.55	5.04	4.31	0.00	9.35	117.41	124.20	
3	Hydraulic Works	10.300	5.28	68.88	1.95	0.00	70.84	4.51	3.69	0.00	8.30	64.27	62.54	
4	Other Civil Works	10.400	3.34	43.82	3.25	0.00	47.07	1.28	1.52	0.00	2.80	42.54	44.28	
5	Plant & Machinery	10.500	5.28	1291.86	8.78	0.00	1240.64	82.35	63.27	0.00	147.63	1149.51	1093.01	
6	Lines and Cable	10.521	5.28	21.51	0.10	0.00	21.61	1.45	1.14	0.00	2.59	20.07	19.03	
7	Vehicles	10.730	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8	Furniture and Fixtures	10.810	6.33	0.08	0.00	0.00	0.08	0.00	0.01	0.00	0.01	0.08	0.07	
9	Office Equipments	10.900	6.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10	Capital Spares	10.500	5.28	0.00	24.47	0.00	24.47	0.00	0.65	0.00	0.65	0.00	23.82	
	<b>Total</b>			<b>1488.61</b>	<b>51.66</b>	<b>0.00</b>	<b>1540.27</b>	<b>94.74</b>	<b>76.58</b>	<b>0.00</b>	<b>171.32</b>	<b>1393.87</b>	<b>1368.95</b>	

**RAJASTHAN RAJYA VIDYUT UTPADAN NIGAM LIMITED**  
**CHHABRA THERMAL POWER PROJECT, RVUNL, CHHABRA**

**Fixed Assets & Provisions for Depreciation 2016-17 for Stage-I, Phase II Unit # 3 (COD 19.12.2013)**

Format 6.1												(Rs. In Crore)		
S. No	Particulars	A/c Code	Rate of Dep. %	Gross Fixed Assets (2016-17)				Provisions for depreciation (2016-17)				Net Fixed Assets		
				At the	Additions during	Additions &	At the end	Cumulative	Additions	Adjust	Cumulative	At the	At the end	
1	Land and Land Rights	10.101	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	Building & Civil Works of Diesel Plant	10.200	3.34	135.55	0.00	0.00	135.55	9.35	4.53	0.00	13.88	126.20	121.67	
3	Hydraulic Works	10.300	5.28	70.84	0.00	0.00	70.84	8.30	3.74	0.00	12.04	62.54	58.80	
4	Other Civil Works	10.400	3.34	47.07	0.00	0.00	47.07	2.80	1.57	0.00	4.37	44.28	42.70	
5	Plant & Machinery	10.500	5.28	1240.64	0.00	0.00	1240.64	147.63	65.51	0.00	213.13	1093.01	1027.51	
6	Lines and Cable	10.521	5.28	21.61	0.00	0.00	21.61	2.59	1.14	0.00	3.73	19.03	17.89	
7	Vehicles	10.730	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8	Furniture and Fixtures	10.810	6.33	0.08	0.00	0.00	0.08	0.01	0.01	0.00	0.01	0.07	0.07	
9	Office Equipments	10.900	6.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10	Capital Spares	10.500	5.28	24.47	0.00	0.00	24.47	0.65	1.29	0.00	1.94	23.82	22.53	
	<b>Total</b>			<b>1540.27</b>	<b>0.00</b>	<b>0.00</b>	<b>1540.27</b>	<b>171.32</b>	<b>77.78</b>	<b>0.00</b>	<b>249.10</b>	<b>1368.95</b>	<b>1291.17</b>	

**RAJASTHAN RAJYA VIDYUT UTPADAN NIGAM LIMITED**  
**CHHABRA THERMAL POWER PROJECT, RVUNL, CHHABRA**

**Fixed Assets & Provisions for Depreciation 2017-18 for Stage-I, Phase II Unit # 3 (COD 19.12.2013)**

Format 6.1												(Rs. In Crore)		
S. No	Particulars	A/c Code	Rate of Dep. %	Gross Fixed Assets (2017-18)				Provisions for depreciation (2017-18)				Net Fixed Assets		
				At the	Additions during	Additions &	At the end	Cumulative	Additions	Adjust	Cumulative	At the	At the end	
1	Land and Land Rights	10.101	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	Building & Civil Works	10.200	3.34	135.55	0.00	0.00	135.55	0.00	4.53	0.00	4.53	135.55	131.02	
3	Hydraulic Works	10.300	5.28	70.84	0.00	0.00	70.84	13.88	3.74	0.00	17.62	55.95	53.22	
4	Other Civil Works	10.400	3.34	47.07	0.00	0.00	47.07	12.04	1.57	0.00	13.61	35.04	33.45	
5	Plant & Machinery	10.500	5.28	1240.64	0.00	0.00	1240.64	4.37	65.51	0.00	69.88	1235.27	1170.75	
6	Lines and Cable	10.521	5.28	21.61	0.00	0.00	21.61	213.13	1.14	0.00	214.27	-191.52	-192.65	
7	Vehicles	10.730	9.50	0.00	0.00	0.00	0.00	3.73	0.00	0.00	3.73	-3.73	-3.73	
8	Furniture and Fixtures	10.810	6.33	0.08	0.00	0.00	0.08	0.00	0.01	0.00	0.01	0.08	0.07	
9	Office Equipments	10.900	6.33	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	-0.01	-0.01	
10	Capital Spares	10.500	5.28	24.47	0.00	0.00	24.47	0.00	1.29	0.00	1.29	24.47	23.18	
	<b>Total</b>			<b>1540.27</b>	<b>0.00</b>	<b>0.00</b>	<b>1540.27</b>	<b>247.16</b>	<b>77.78</b>	<b>0.00</b>	<b>324.95</b>	<b>1293.11</b>	<b>1215.32</b>	

**RAJASTHAN RAJYA VIDYUT UTPADAN NIGAM LIMITED**  
**CHHABRA THERMAL POWER PROJECT, RVUNL, CHHABRA**  
**Fixed Assets & Provisions for Depreciation 2015-16 for Stage-I, Phase II Unit # 4 (COD 30.12.2014)**

Format 6.1				(Rs. In Crore)										
S. No	Particulars	A/c Code	Rate of Dep. %	Gross Fixed Assets (2015-16)				Provisions for depreciation (2015-16)				Net Fixed Assets		
				At the	Additions during	Additions &	At the end	Cumulativ	Additions	Adjust.	Cumulativ	At the	At the end	
1	Land and Land Rights	10.101	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	Building & Civil Works	10.200	3.34	94.92	28.58	0.00	123.50	0.80	3.65	0.00	4.45	94.12	119.06	
3	Hydraulic Works	10.300	5.28	52.65	5.94	0.00	58.59	0.70	2.94	0.00	3.64	51.94	54.95	
4	Other Civil Works	10.400	3.34	34.10	6.75	0.00	40.85	0.29	1.25	0.00	1.54	33.81	39.31	
5	Plant & Machinery	10.500	5.28	963.11	13.04	0.00	976.15	12.82	51.20	0.00	64.01	950.30	912.14	
6	Lines and Cable	10.521	5.28	16.59	0.09	0.00	16.68	0.22	0.88	0.00	1.10	16.37	15.58	
7	Vehicles	10.730	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8	Furniture and Fixtures	10.810	6.33	1.18	0.59	0.00	1.77	0.02	0.09	0.00	0.11	1.16	1.66	
9	Office Equipments	10.900	6.33	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.02	
10	Capital Spares	10.500	5.28	0.00	27.64	0.00	27.64	0.00	0.73	0.00	0.73	0.00	26.91	
	<b>Total</b>			<b>1162.55</b>	<b>82.65</b>	<b>0.00</b>	<b>1245.20</b>	<b>14.84</b>	<b>60.73</b>	<b>0.00</b>	<b>75.58</b>	<b>1147.71</b>	<b>1169.62</b>	

**RAJASTHAN RAJYA VIDYUT UTPADAN NIGAM LIMITED**  
**CHHABRA THERMAL POWER PROJECT, RVUNL, CHHABRA**  
**Fixed Assets & Provisions for Depreciation 2016-17 for Stage-I, Phase II Unit # 4 (COD 30.12.2014)**

Format 6.1				(Rs. In Crore)									
S. No	Particulars	A/c Code	Rate of Dep. %	Gross Fixed Assets (2016-17)				Provisions for depreciation (2016-17)				Net Fixed Assets	
				At the	Additions during	Additions &	At the end	Cumulativ	Additions	Adjust.	Cumulativ	At the	At the end
1	Land and Land Rights	10.101	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	Building & Civil Works	10.200	3.34	123.50	0.00	0.00	123.50	4.45	4.13	0.00	8.57	119.06	114.93
3	Hydraulic Works	10.300	5.28	58.59	0.00	0.00	58.59	3.64	3.09	0.00	6.73	54.95	51.85
4	Other Civil Works	10.400	3.34	40.85	0.00	0.00	40.85	1.54	1.36	0.00	2.90	39.31	37.95
5	Plant & Machinery	10.500	5.28	976.15	0.00	0.00	976.15	64.01	51.54	0.00	115.56	912.14	860.60
6	Lines and Cable	10.521	5.28	16.68	0.00	0.00	16.68	1.10	0.88	0.00	1.98	15.58	14.70
7	Vehicles	10.730	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	Furniture and Fixtures	10.810	6.33	1.77	0.00	0.00	1.77	0.11	0.11	0.00	0.22	1.66	1.54
9	Office Equipments	10.900	6.33	0.02	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.02	0.02
10	Capital Spares	10.500	5.28	27.64	0.00	0.00	27.64	0.73	1.46	0.00	2.19	26.91	25.45
	<b>Total</b>			<b>1245.20</b>	<b>0.00</b>	<b>0.00</b>	<b>1245.20</b>	<b>75.58</b>	<b>62.58</b>	<b>0.00</b>	<b>138.16</b>	<b>1169.62</b>	<b>1107.04</b>

**RAJASTHAN RAJYA VIDYUT UTPADAN NIGAM LIMITED**  
**CHHABRA THERMAL POWER PROJECT, RVUNL, CHHABRA**  
**Fixed Assets & Provisions for Depreciation 2017-18 for Stage-I, Phase II Unit # 4 (COD 30.12.2014)**

Format 6.1				(Rs. In Crore)									
S. No	Particulars	A/c Code	Rate of Dep. %	Gross Fixed Assets (2017-18)				Provisions for depreciation (2017-18)				Net Fixed Assets	
				At the	Additions during	Additions &	At the end	Cumulativ	Additions	Adjust.	Cumulativ	At the	At the end
1	Land and Land Rights	10.101	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	Building & Civil Works	10.200	3.34	123.50	0.00	0.00	123.50	8.57	4.13	0.00	12.70	114.93	110.81
3	Hydraulic Works	10.300	5.28	58.59	0.00	0.00	58.59	6.73	3.09	0.00	9.82	51.85	48.76
4	Other Civil Works	10.400	3.34	40.85	0.00	0.00	40.85	2.90	1.36	0.00	4.27	37.95	36.58
5	Plant & Machinery	10.500	5.28	976.15	0.00	0.00	976.15	115.56	51.54	0.00	167.10	860.60	809.06
6	Lines and Cable	10.521	5.28	16.68	0.00	0.00	16.68	1.98	0.88	0.00	2.86	14.70	13.82
7	Vehicles	10.730	9.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	Furniture and Fixtures	10.810	6.33	1.77	0.00	0.00	1.77	0.22	0.11	0.00	0.34	1.54	1.43
9	Office Equipments	10.900	6.33	0.02	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.02	0.02
10	Capital Spares	10.500	5.28	27.64	0.00	0.00	27.64	2.19	1.46	0.00	3.65	25.45	23.99
	<b>Total</b>			<b>1245.20</b>	<b>0.00</b>	<b>0.00</b>	<b>1245.20</b>	<b>138.16</b>	<b>62.58</b>	<b>0.00</b>	<b>200.73</b>	<b>1107.04</b>	<b>1044.47</b>

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

Name of the Petitioner

Rajasthan Raja Vidhyut Utpadan Nigam Ltd.

Name of the Power Station :

Chhabra Thermal Power Plant Project

Unit 1 & 2

Year (2015-16)

Rs. Crore

Rs. Crore

S. No.	Source (loan)	Currency	Opening Balance	Anticipated Receipts	Anticipated Repayment	Interest rate		Closing Balance	Average Rate of Interest#	Liability of Interest during the year	Financial charges	Total interest & finance charges	Less: Interest charges	Net interest & finance charges	Loan swapped during the Year			
						Fixed	Floating								Domestic	Foreign loan	old Interest	New Interest
1	2	2A	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	Term Loan	Indian	1530.05	0.00	161.06	12.48%		1368.99	12.73%	184.53	0.05	184.57	0.00	184.57	Nil	Nil	Nil	Nil
Total (for Station)			1530.05	0.00	161.06			1368.99		184.53	0.05	184.57	0.00	184.57	Nil	Nil	Nil	Nil

Unit 1 & 2

Year (2016-17)

Rs. Crore

Rs. Crore

S. No.	Source (loan)	Currency	Opening Balance	Anticipated Receipts	Anticipated Repayment	Interest rate		Closing Balance	Average Rate of Interest#	Liability of Interest during the year	Financial charges	Total interest & finance charges	Less: Interest charges	Net interest & finance charges	Loan swapped during the Year			
						Fixed	Floating								Domestic	Foreign loan	old Interest	New Interest
1	2	2A	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	Term Loan	Indian	1368.99	0.00	125.71	12.48%		1243.29	12.48%	163.01		163.01	0.00	163.01	Nil	Nil	Nil	Nil
Total (for Station)			1368.99	0.00	125.71			1243.29		163.01	0.00	163.01	0.00	163.01	Nil	Nil	Nil	Nil

Unit 1 & 2

Year (2017-18)

Rs. Crore

Rs. Crore

S. No.	Source (loan)	Currency	Opening Balance	Anticipated Receipts	Anticipated Repayment	Interest rate		Closing Balance	Average Rate of Interest#	Liability of Interest during the year	Financial charges	Total interest & finance charges	Less: Interest charges	Net interest & finance charges	Loan swapped during the Year			
						Fixed	Floating								Domestic	Foreign loan	old Interest	New Interest
1	2	2A	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	Term Loan	Indian	1243.29	0.00	125.71	12.50%		1117.58	12.50%	147.55	1.00	148.55	0.00	148.55	Nil	Nil	Nil	Nil
Total (for Station)			1243.29	0.00	125.71			1117.58		147.55	1.00	148.55	0.00	148.55	Nil	Nil	Nil	Nil

Unit 3

Year (2015-16)

Rs. Crore

Rs. Crore

S. No.	Source (loan)	Currency	Opening Balance	Anticipated Receipts	Anticipated Repayment	Interest rate		Closing Balance	Average Rate of Interest#	Liability of Interest during the year	Financial charges	Total interest & finance charges	Less: Interest charges	Net interest & finance charges	Loan swapped during the Year			
						Fixed	Floating								Domestic	Foreign loan	old Interest	New Interest
1	2	2A	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	Term Loan	Indian	1096.15	41.33	76.58	12.48%		1060.90	12.48%	134.60	1.00	135.60	0.00	135.60	Nil	Nil	Nil	Nil
	<b>Total (for Station)</b>		<b>1096.15</b>	<b>41.33</b>	<b>76.58</b>			<b>1060.90</b>		<b>134.60</b>	<b>1.00</b>	<b>135.60</b>	<b>0.00</b>	<b>135.60</b>	<b>Nil</b>	<b>Nil</b>	<b>Nil</b>	<b>Nil</b>

Unit 3

Year (2016-17)

Rs. Crore

Rs. Crore

S. No.	Source (loan)	Currency	Opening Balance	Anticipated Receipts	Anticipated Repayment	Interest rate		Closing Balance	Average Rate of Interest#	Liability of Interest during the year	Financial charges	Total interest & finance charges	Less: Interest charges	Net interest & finance charges	Loan swapped during the Year			
						Fixed	Floating								Domestic	Foreign loan	old Interest	New Interest
1	2	2A	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	Term Loan	Indian	1060.90	0.00	77.78	12.48%		983.11	12.48%	127.55	1.00	128.55	0.00	128.55	Nil	Nil	Nil	Nil
	<b>Total (for Station)</b>		<b>1060.90</b>	<b>0.00</b>	<b>77.78</b>			<b>983.11</b>		<b>127.55</b>	<b>1.00</b>	<b>128.55</b>	<b>0.00</b>	<b>128.55</b>	<b>Nil</b>	<b>Nil</b>	<b>Nil</b>	<b>Nil</b>

Unit 3

Year (2017-18)

Rs. Crore

Rs. Crore

S. No.	Source (loan)	Currency	Opening Balance	Anticipated Receipts	Anticipated Repayment	Interest rate		Closing Balance	Average Rate of Interest#	Liability of Interest during the year	Financial charges	Total interest & finance charges	Less: Interest charges	Net interest & finance charges	Loan swapped during the Year			
						Fixed	Floating								Domestic	Foreign loan	old Interest	New Interest
1	2	2A	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	Term Loan	Indian	983.11	0.00	77.78	12.50%		905.33	12.50%	118.03	1.00	119.03	0.00	119.03	Nil	Nil	Nil	Nil
	<b>Total (for Station)</b>		<b>983.11</b>	<b>0.00</b>	<b>77.78</b>			<b>905.33</b>		<b>118.03</b>	<b>1.00</b>	<b>119.03</b>	<b>0.00</b>	<b>119.03</b>	<b>Nil</b>	<b>Nil</b>	<b>Nil</b>	<b>Nil</b>

Unit 4

Year (2015-16)

Rs. Crore

Rs. Crore

S. No.	Source (loan)	Currency	Opening Balance	Anticipated Receipts	Anticipated Repayment	Interest rate		Closing Balance	Average Rate of Interest#	Liability of Interest during the year	Financial charges	Total interest & finance charges	Less: Interest charges	Net interest & finance charges	Loan swapped during the Year			
						Fixed	Floating								Domestic	Foreign loan	old Interest	New Interest
1	2	2A	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	Term Loan	Indian	915.20	66.12	60.73	12.48%		920.58	12.48%	114.55	1.00	115.55	0.00	115.55	Nil	Nil	Nil	Nil
	<b>Total (for Station)</b>		915.20	66.12	60.73			920.58		114.55	1.00	115.55	0.00	115.55	Nil	Nil	Nil	Nil

Unit 4

Year (2016-17)

Rs. Crore

Rs. Crore

S. No.	Source (loan)	Currency	Opening Balance	Anticipated Receipts	Anticipated Repayment	Interest rate		Closing Balance	Average Rate of Interest#	Liability of Interest during the year	Financial charges	Total interest & finance charges	Less: Interest charges	Net interest & finance charges	Loan swapped during the Year			
						Fixed	Floating								Domestic	Foreign loan	old Interest	New Interest
1	2	2A	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	Term Loan	Indian	920.58	0.00	62.58	12.48%		858.00	12.48%	110.98	1.00	111.98	0.00	111.98	Nil	Nil	Nil	Nil
	<b>Total (for Station)</b>		920.58	0.00	62.58			858.00		110.98	1.00	111.98	0.00	111.98	Nil	Nil	Nil	Nil

Unit 4

Year (2017-18)

Rs. Crore

Rs. Crore

S. No.	Source (loan)	Currency	Opening Balance	Anticipated Receipts	Anticipated Repayment	Interest rate		Closing Balance	Average Rate of Interest#	Liability of Interest during the year	Financial charges	Total interest & finance charges	Less: Interest charges capitalised	Net interest & finance charges	Loan swapped during the Year			
						Fixed	Floating								Domestic loan	Foreign loan	old Interest rate	New Interest rate
1	2	2A	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	Term Loan	Indian	858.00	0.00	62.58	12.50%		795.43	12.50%	103.34	1.00	104.34	0.00	104.34	Nil	Nil	Nil	Nil
	<b>Total (for Station)</b>		858.00	0.00	62.58			795.43		103.34	1.00	104.34	0.00	104.34	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.  
Chhabra Thermal Power Project

Rs. Crore

Particulars	Package1	Package2	Package3	Package4	Package5	Package6
1	2	3	4	5	6	7
Source of Loan <sup>1</sup>	PFC					
Currency <sup>2</sup>	Indian					
Amount of Loan sanctioned						
Amount of Gross Loan drawn upto previous year/during current/ensuing year/COD <sup>3,4,5,13,15</sup>	0.00					
Interest Type <sup>6</sup>	Floating					
Fixed Interest Rate, if applicable	NA					
Base Rate, if Floating Interest <sup>7</sup>	NA					
Margin, if Floating Interest <sup>8</sup>	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
Are there any Caps/Floor <sup>9</sup>						
If above is yes,specify caps/floor						
Moratorium Period <sup>10</sup>						
Moratorium effective from						
Repayment Period <sup>11</sup>						
Repayment effective from						
Repayment Frequency <sup>12</sup>						
Repayment Instalment <sup>13,14</sup>						
Base Exchange Rate <sup>16</sup>						

Consolidated report on additions to Fixed Assets during the year  
Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.  
Chhabra Thermal Power Project

f the Petitioner  
he Power Station :

(Rs. in crores)

S.No.	Asset Description	Asset Code	FY 2015-16									FY 2016-17									FY 2017-18					
			(Actuals/audited)									(Actuals & Anticipated)									(Anticipated)					
			Cost (Unit 1&2)	Cost Unit 3	Cost Unit 4	Interest	Finance Charges	Pre-Operative expenses	Exchange fluctuations	Total	Date of commissioning	Cost (Unit 1&2)	Cost Unit 3	Cost Unit 4	Interest	Finance Charges	Pre-Operative expenses	Exchange fluctuations	Total	Date of commissioning	Cost	Interest	Finance Charges	Pre-Operative expenses	Exchange fluctuations	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	11	12	13	14	15	16	17			
1	Land & land rights	10.1 XX	0.000	0.000	0.000														0							
1A	Building & Civil works of Power plant	10.2 XX	0.000	13.100	28.580														0							
2	Hydraulic works	10.3 XX	0.720	1.960	5.940														0							
3	Other Civil works	10.4 XX	0.000	3.250	6.750														0							
4	Plant & machinery	10.5 XX	2.590	8.780	13.040														0							
5	Lines and Cable Networks	10.6 XX	0.000	0.100	0.090														0							
6	Vehicles	10.7 XX	0.000	0.000	0.000														0							
7	Furniture & fixtures	10.8 XX	0.000	0.000	0.590														0							
8	Office Equipments	10.9 XX	0.000	0.000	0.020														0							
9	Capital spares	10.10 XX	0.000	24.470	27.640														0							
	<b>Total</b>		3.310	51.660	82.650																					



**Form G 6.5**

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

Name of the Petitioner : **Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.**  
 Name of the Power Station : **Chhabra Thermal Power Project**  
 New Projects **NA**  
 Capital Cost Estimates

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 theCapital cost estimates	Nil					
<b>Capital Cost excluding IDC &amp; FC</b>						
Foreign Component, if any (In Million US \$ or the relevant Currency)						
Domestic Component (Rs. Cr.)						
<b>Capital cost excluding IDC &amp; FC (Rs. Cr)</b>						
<b>IDC &amp; FC</b>						
Foreign Component, if any (In Million US \$ or the relevant Currency)						
Domestic Component (Rs. Cr.)						
<b>Total IDC &amp; FC (Rs.Cr.)</b>						
Rate of taxes & duties considered						
<b>Capital cost Including IDC &amp; FC</b>						
Foreign Component, if any (In Million US \$ or the relevant Currency)						
Domestic Component (Rs. Cr.)						
<b>Capital cost Including IDC &amp; FC (Rs. Cr)</b>						
<b>Schedule of Commissioning</b>						
COD of Unit-I/ Block-I						
COD of Unit-II/ Block-II						
-----						
-----						
COD of last Unit/Block						

## Form G 6.6

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

Name of the Petitioner:  
Name of the Power Station :

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.  
Chhabra Thermal 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.						
<b>9.0</b>	<b>Balance of Plant</b>						
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)						
<b>16.0</b>	<b>Overheads</b>						
<b>17.0</b>	<b>Capital cost excluding IDC &amp; FC</b>						
18	Interest During Construction (IDC)						
19	Financing Charges (FC)						
<b>20.0</b>	<b>Capital cost including IDC &amp; FC</b>						
21	Cost per MW						

NA

**Form G 6.7**  
**Break-up of Construction / Supply / Service packages**

Name of the Petitioner : Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.  
Name of the Power Station : Chhabra Thermal Power Project

S.No.	Name/No. of Construction / Supply / Service Package	Scope of works <sup>1</sup> (in line with head of cost break-ups as applicable)	Whether awarded through ICB/DCB/Depatmentally/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																	
10																	
12																	
13																	
14																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	
25																	
26																	
27																	
28																	
29																	
30																	
31																	
32																	

NA

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

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

Form G 6.8

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.  
Chhabra Thermal 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 : Chhabra Thermal Power Project

Rs. Crore

S.No.	Particulars	Reference	FY 2015-16			FY 2016-17			FY 2017-18			Remarks
			(Actuals/audited)	(Actuals/audited)	(Actuals/audited)	(Anticipated)			(Anticipated)			
			4	5	6	7	8	9	10	11	12	
1	2	3	Unit 1&2	Unit 3	Unit 4	Unit 1&2	Unit 3	Unit 4	Unit 1&2	Unit 3	Unit 4	13
1	Equity at the beginning of the year		501.16	297.72	232.51	502.16	308.05	249.04	502.16	308.05	249.04	
2	Capitalisation		3.31	51.66	82.65	0.00	0.00	0.00	0.00	0.00	0	
3	Equity portion of capitalisation		0.993	10.332	16.53	0	0.00	0.00	0	0	0	
4	Equity at the end of the year		502.16	308.05	249.04	502.16	308.05	249.04	502.16	308.05	249.04	
	<b>Return Computation</b>											
5	Return on Equity at the beginning of the year	ROI For 2016-17 is 15.50% for 2015-16 15.50.%	25.06	14.89	11.63	77.83	47.75	38.60	77.83	47.75	38.60	
6	Return on Equity portion of capitalisation (on pro-rata basis)	ROI For 2016-17 is 15.50% for 2015-16 15.50.%	0.02	0.80	1.28	0.00	0.00	0.00	0.00	0.00	0.00	
7	<b>Total Return on Equity</b>	(5)+(6)	25.08	15.69	12.91	77.83	47.75	38.60	77.83	47.75	38.60	

Form G 6.10

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: Chhabra Thermal Power Project  
 COD: UNIT3-19.12.2013 & UNIT 4- 30.12.2014

(Rs. Crore)

S.No.	Work/Equipment added after COD up to Cut off Date / Beyond Cut off Date	Amount Capitalised / Proposed to be capitalised 2015-16		Amount Capitalised / Proposed to be capitalised 2016-17		Justification	Regulations under which such additional capitalisation has been claimed	Source of Finance					Admitted Cost <sup>1</sup>
		UNIT -3	UNIT-4	UNIT -3	UNIT-4			Loan 1	Loan 2 and so on	Total Loan	Equity	Internal Sources or Others (mention details)	
1	Land and Land Rights	0.00	0.00	0.00	0.00								
2	Building & Civil Works	13.10	28.58	0.00	0.00								
3	Hydraulic Works	1.96	5.94	0.00	0.00								
4	Other Civil Works	3.25	6.75	0.00	0.00								
5	Plant & Machinery	8.78	13.04	0.00	0.00								
6	Lines and Cable Network	0.10	0.09	0.00	0.00								
7	Vehicles	0.00	0.00	0.00	0.00								
8	Furniture and Fixtures	0.00	0.59	0.00	0.00								
9	Office Equipments	0.00	0.02	0.00	0.00								
10	Capital Spares	24.47	27.64	0.00	0.00								
Total		51.66	82.65	0.00	0.00								

**Form G 6.11**  
**Interest on Working Capital**

Name of the Petitioner  
Name of the Power Station

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.  
Chhabra Thermal Power Project

Rs. Crore

S. No.	Particulars		FY 2015-16			FY 2016-17									FY 2017-18			Remarks
			(Actuals / audited)			Approved by the Commission			Apr-Sep (Actual)	Oct - March (Estimated)	Apr-Sep (Actual)	Oct - March (Estimated)	Apr-Sep (Actual)	Oct - March (Estimated)	(Anticipated)			
			Unit 1&2	Unit 3	Unit 4	Unit 1&2	Unit 3	Unit 4	Unit 1&2		Unit 3		Unit 4		Unit 1 & 2	Unit 3	Unit 4	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17		
1	Coal Cost ( Non pit head)	1½ Month	45.25	41.37	44.28				44.88	53.75	21.74	28.62	26.09	28.62	86.88	46.36	48.09	
2	Coal Cost ( Pit head)	Half month	NA	NA	NA				NA	NA	NA	NA	NA	NA	NA	NA	NA	
3	Cost of Gas	Half month	NA	NA	NA				NA	NA	NA	NA	NA	NA	NA	NA	NA	
4	Sec.Fuel Oil	Two month	2.45	2.95	3.40				1.23	0.44	0.89	0.22	0.38	0.22	0.68	0.34	0.35	
5	Liquid Fuel Stock	Half month	NA	NA	NA				NA	NA	NA	NA	NA	NA	NA	NA	NA	
6	O & M expenses	One month	6.14	3.55	3.55				3.76	3.76	1.88	1.88	1.88	1.88	7.95	3.98	3.98	
	Maintenance Spares	20% of O&M	14.73	8.52	8.52				9.01	9.01	4.51	4.51	4.51	4.51	19.08	9.54	9.54	
	Receivables	1½ Month	107.15	79.54	77.98				76.49	84.98	42.22	48.79	43.70	46.19	147.25	85.32	82.17	
	<b>Total Working Capital</b>		<b>175.72</b>	<b>135.93</b>	<b>137.72</b>				<b>135.36</b>	<b>151.93</b>	<b>71.24</b>	<b>84.01</b>	<b>76.56</b>	<b>81.42</b>	<b>261.85</b>	<b>145.54</b>	<b>144.14</b>	
	Rate of Interest (as per norms)		12.50%	12.50%	12.50%				12.50%	12.26%	12.26%	12.26%	12.26%	12.26%	11.80%	11.80%	11.80%	
	<b>Interet on working Capital</b>		<b>21.96</b>	<b>16.99</b>	<b>17.21</b>	<b>30.03</b>	<b>16.37</b>	<b>16.29</b>	<b>16.92</b>	<b>18.63</b>	<b>8.73</b>	<b>10.30</b>	<b>9.39</b>	<b>9.98</b>	<b>30.90</b>	<b>17.17</b>	<b>17.01</b>	

## Insurance Expenses

Name of the Petitioner: Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.  
 Name of the Power Station : Chhabra Thermal Power Project

Rs. Crore

S. No.	Particulars	Previous Year			Current Year			Ensuing Year			Remarks
		FY 2015-16			FY 2016-17			FY 2017-18			
		(Actuals/audited)			(Estimated)			(Anticipated)			
		Unit 1&2	Unit 3	Unit 4	Unit 1&2	Unit 3	Unit 4	Unit 1&2	Unit 3	Unit 4	
1	2	3	4		5	6	7				1
	<b>Insurance Expenses</b>										
a)	Provision made/ proposed for the year	3.09	1.54	1.54	3.24	1.62	1.62	3.40	1.70	1.70	
b)	Actual insurance expenses incurred										
c)	Average Net Fixed Assets	1908.85	1381.41	1158.66	1784.84	1330.06	1138.33	3228.42	1330.06	1138.33	



Tax on R.O.E.

Name of the Petitioner: Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.  
 Name of the Power Station : Chhabra Thermal Power Project

Rs.

S. No.	Particulars	FY 2015-16			FY 2016-17			FY 2017-18			Remarks
		(Actuals/audited)	(Actuals/audited)	(Actuals/audited)	Actual/ Estimated	Actual/ Estimated	Actual/ Estimated	Proposed to be recovered	Proposed to be recovered	Proposed to be recovered	
		Unit 1&2	Unit 3	Unit 4	Unit 1&2	Unit 3	Unit 4	Unit 1&2	Unit 3	Unit 4	
1	2	3	4	5	6	7	8	9	10	11	
A)	Advance Tax assessed & deposited on----										
a)	for Quarter I & deposited on 15 th June.										
b)	for Quarter II & deposited on 15 th Sept.										
c)	for Quarter III & deposited on 15 th Dec.										
d)	for Quarter IV & deposited on 15 th March.										
	Total---(A)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
B)	Deffered tax liability before 01.04.2009										

## Proposed improvement in performance

Name of the Petitioner  
Name of the Power Station :

Rajasthan Rajya Vidhyut Utpadan Nigam Ltd.  
Chhabra Thermal Power Project

Rs. Crore

S.No.	Particulars	Previous year			Current year						MYT Control Period				Remarks	
		FY 2015-16			FY 2016-17						FY 2017-18			n+3		n+4
		(Actuals / audited)			Apr-Sep (Actual)	Oct-Mar (Estimated)	Apr-Sep (Actual)	Oct-Mar (Estimated)	Apr-Sep (Actual)	Oct-Mar (Estimated)	(Anticipated)					
		Unit 1&2	Unit 3	Unit 4	Unit 1&2	Unit 1&2	Unit 3	Unit 3	Unit 4	Unit 4	Unit 1&2	Unit 3	Unit 4	10		11
1	Plant load factor	37.00%	60.62%	67.31%	67.62%	80.00%	62.18%	80.00%	73.70%	80.00%	80.00%	80.00%	83.00%			
2	Auxiliary consumption	11.17%	10.73%	10.17%	10.11%	9.00%	10.17%	9.00%	10.29%	9.00%	9.00%	9.00%	9.00%			
3	Specific fuel consumption															
(i)	coal, kg / kWh	0.62	0.67	0.65	0.67	0.65	0.66	0.65	0.67	0.65	0.56	0.54	0.54			
ii)	gas, SCM / kWh															
(iii)	oil, ml / kWh	2.64	3.63	3.55	1.92	0.30	2.90	0.30	1.12	0.30	0.45	0.45	0.45			
(iv)	Limestone kg / kWh															
(v)	any other fuel															
4	Station heat rate, kcal / kWh	2746.31	3000.61	2897.22	2785.95	2684.75	2855.55	2769.20	2868.27	2769.20	2312.31	2312.31	2312.31			
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, %	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%			
8	Other bye product utilisation(give list)															
9	Outstanding dues, days of receivables															
10	Availability	44.29%	74.15%	78.58%	81.34%	80.00%	72.52%	80.00%	84.13%	80.00%	80.00%	80.00%	83.00%			

Note-1. Remarks to indicate manner in which performance parameters reflected in the tariff proposal  
2.list is illustrative