

**Application for  
Truing-up of Aggregate Revenue Requirement for FY  
2012-13**

by

**Rajasthan Rajya Vidyut Utpadan Nigam Limited**

Submitted to

**Rajasthan Electricity Regulatory Commission**

**Jaipur**

**November 2014**

## Table of Contents

1.	ANNUAL PERFORMANCE REVIEW .....	7
2.	TRUING-UP OF ARR OF RVUN FOR FY 2012-13 .....	9
3.	TRUING-UP OF ARR OF KTPS FOR FY 2012-13 .....	13
4.	TRUING-UP OF ARR OF STPS FOR FY 2012-13 .....	17
5.	TRUING-UP OF ARR OF RGTPS FOR FY 2012-13 .....	21
6.	TRUING-UP OF ARR OF DCCPP FOR FY 2012-13 .....	25
7.	TRUING-UP OF ARR OF MAHI HYDEL POWER PROJECT FOR FY 2012-13 ...	29
8.	TRUING-UP OF ARR OF CTPP FOR FY 2012-13 .....	32
9.	RESPONDENTS:- .....	35
10.	PRAYER.....	35

## INDEX OF TABLES

TABLE 1: RVUN ARR &TARIFF FOR FY 2012-13	7
TABLE 2: RVUN PLANTS ANNUAL PERFORMANCE REVIEW FOR FY 2012-13	8
TABLE 3: GENERATION OF RVUN PLANTS FOR FY 2012-13	9
TABLE 4: TRUE-UP OF RVUN FIXED COST FOR FY 13	9
TABLE 5: CAPITAL COST OF KTPS UNIT 7	10
TABLE 6: CAPITAL COST OF STPS UNIT 6	11
TABLE 7: CAPITAL COST OF CTPP UNIT 1&2	11
TABLE 8: RATE OF SALE OF ENERGY OF RVUN AS A WHOLE FOR FY 13	11
TABLE 9: TOTAL TRUE UP FOR FY 2012-13 (RS IN CRORE)	12
TABLE 10: KSTPS AVAILABILITY, PLF AND GENERATION	13
TABLE 11: TRUE-UP OF KTPS FIXED COST FOR FY 13 (RS. IN CRORE)	13
TABLE 12: VARIATION ANALYSIS OF KTPS FIXED COST FOR FY 13	14
TABLE 13: ACTUAL VARIABLE CHARGES OF KTPS FOR FY 13	15
TABLE 14: TOTAL TRUE-UP OF KTPS FOR FY 13 (RS. IN CRORE)	16
TABLE 15: SSTPS AVAILABILITY, PLF AND GENERATION	17
TABLE 16: TRUE-UP OF STPS FIXED COST FOR FY 13 (RS. IN CRORE)	17
TABLE 17: VARIATION ANALYSIS OF STPS FIXED COST FOR FY 13	18
TABLE 18: ACTUAL VARIABLE CHARGES OF STPS FOR FY 13	19
TABLE 19: TOTAL TRUE-UP OF STPS FOR FY 13 (RS. IN CRORE)	20
TABLE 20: RGTPS AVAILABILITY, PLF AND GENERATION	21
TABLE 21: TRUE-UP OF RGTPS FIXED COST FOR FY 13 (RS. IN CRORE)	21
TABLE 22: VARIATION ANALYSIS OF RGTPS FIXED COST FOR FY 13	22
TABLE 23: ACTUAL VARIABLE CHARGES OF RGTPS FOR FY 13	23
TABLE 24: TOTAL TRUE-UP OF RGTPS FOR FY 13 (RS. IN CRORE)	24
TABLE 25: DCCPP AVAILABILITY, PLF AND GENERATION FOR FY 13	25
TABLE 26: TRUE-UP OF DCCPP FIXED COST FOR FY 13 (RS. IN CRORE)	25
TABLE 27: VARIATION ANALYSIS OF DCCPP FIXED COST FOR FY 13	26
TABLE 28: ACTUAL VARIABLE CHARGES OF DCCPP FOR FY 13	27
TABLE 29: TRUE-UP OF DCCPP REVENUE AND COST OF GENERATION FOR FY 13 (RS. IN CRORE)	27
TABLE 30: MAHI HEP AVAILABILITY, PLF AND GENERATION	29
TABLE 31: TRUE-UP OF MAHI FIXED COST FOR FY 13 (RS. IN CRORE)	29
TABLE 32: VARIATION ANALYSIS OF MAHI FIXED COST FOR FY 13	30
TABLE 33: ENERGY AND CAPACITY CHARGES OF MAHI HEP FOR FY 13 (RS. IN CRORE)	30
TABLE 34: CTPP AVAILABILITY, PLF AND GENERATION	32
TABLE 35: TRUE-UP OF CTPP FIXED COST FOR FY 13 (RS. IN CRORE)	32
TABLE 36: VARIATION ANALYSIS OF CTPP FIXED COST FOR FY 13	33
TABLE 37: ACTUAL VARIABLE CHARGES OF CTPP FOR FY 13	34
TABLE 38: TOTAL TRUE-UP OF CTPP FOR FY 13 (RS IN CRORE)	35

	<b>Annexure</b>	<b>Page No.</b>
A.	O&M Cost of Plants	36-41
B.	Depreciation	42-47
C.	Loan Repayment & Interest & Finance Charge Liability Statement	48-49
D.	Working Capital Loan Requirement Calculation	50-55
E.	WCL Interest Allocation	56
F.	Head Office Expense Break-up & Allocation	56
G.	O&M Expense Allocation	56
H.	Plant-wise Prior Period Expense	57-58
I.	Profit and Loss Account	59-60
J.	13 <sup>th</sup> Annual Report 2012-13	61-

## DEFINITIONS

<b>Act</b>	The Electricity Act, 2003
<b>Application</b>	This Truing-up Petition for FY-12-13 for 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 2009.
<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. (JVVNL), Ajmer Vidyut Vitran Nigam Ltd. (AVVNL) and Jodhpur Vidyut Vitran Nigam Ltd. (JdVVNL).
<b>Gross Calorific Value (GCV)</b>	Gross Calorific Value in relation to a thermal power generating station means the heat produced in kCal by complete combustion of one kilogram of solid fuel or one litre of liquid fuel or one standard cubic meter of gaseous fuel, as the case may be.
<b>Regulation</b>	The Rajasthan Electricity Regulatory Commission (Terms and Conditions for Determination of Tariff) Regulations, 2009 notified by RERC on Jan- 23, 2009
<b>State</b>	The State of Rajasthan.
<b>Gross Station Heat Rate</b>	Station Heat Rate (SHR) means the heat energy input in kCal required to generate one 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
CERC	Central Electricity Regulatory Commission
FY	Financial Year
FY – 12	Financial Year 2011-12
FY – 13	Financial Year 2012-13
GCV	Gross Calorific Value
GFA	Gross Fixed Assets
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:**

**Annual Performance Review Period means Financial Year FY 2012-13**

**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).**

## 1. ANNUAL PERFORMANCE REVIEW

- 1.1. Rajasthan Rajya Vidyut Utapadan Nigam Ltd (RVUN) filed petition for Annual Revenue Requirement (ARR) and tariff for FY 2012-13 dated 29.12.2011 with the Hon'ble Commission in compliance to RERC (Terms & Conditions of determination of tariff) Regulations, 2009 issued under section 62 of the Electricity Act, 2003. RVUN submitted the petition for determination of ARR & tariff for FY-12-13 for the following power stations:

**Table 1: RVUN ARR & Tariff for FY 2012-13**

Sl. No.	Particulars	Capacity (MW)
1	Kota Thermal Power Station (KTPS)	1240
2	Suratgarh Thermal Power Station (STPS)	1500
3	Ramgarh Gas Thermal Power Plant (RGTPS)	110.50
4	Dholpur Combined Cycle Gas based Power Station (DCCPP)	330
5	Mahi Hydel Power Project (MAHI)	140
6	Chhabra Thermal Power Station (CTPP Unit 1&2)	500

- 1.2. The Hon'ble Commission awarded its order dated 06.06.2013 on the aforesaid petition and determined ARR & Tariff for the aforementioned plants and units for the year 2012-13.
- 1.3. Regulation 8 (1) of the RERC (Terms & Conditions for Determination of Tariff) Regulations, 2009 provides that where the aggregate revenue requirement and expected revenue from tariff and charges of a Generating Company or Licensee is covered under a multi-year tariff framework, then such Generating Company or Licensee, as the case may be, shall be subject to an annual performance review during the Control Period.
- 1.4. The Regulation 8 (2) of RERC Tariff Regulations requires that a Generating Company shall make an application for annual performance review by 30th November each year which shall include a true-up of ARR for previous financial year based on Audited Accounts for relevant previous year.
- 1.5. Under Regulation 8 (3) the scope of the Annual Performance Review shall be a comparison of the performance of the Generating Company or Licensee with the approved forecast of aggregate revenue requirement and expected revenue from tariff and charges and shall comprise the following:
- 1.5.1. A comparison of the audited performance of the applicant for the previous financial year with the approved forecast for such previous financial year and trueing up of expenses and revenue subject to prudent check including pass through of impact of uncontrollable factors ;
  - 1.5.2. Computation of the sharing of gains and losses on account of controllable factors for the previous year ;
  - 1.5.3. Revision of estimates for the ensuing financial year, if required, based on

audited financial results for the previous financial year.

- 1.6. The annual reports and accounts of the company for FY 2012-13 have been now finalized, audited by the Statuary Auditors on 27.03.2014. RVUN is submitting a copy of audited annual account of FY 2012-13 with this petition.
- 1.7. The petitioner now on finalization of annual accounts for FY 2012-13 are submitting this petition for truing-up of ARR for FY 2012-13 for following Plants:

**Table 2: RVUN Plants Annual performance Review for FY 2012-13**

<b>Sl. No.</b>	<b>Particulars</b>	<b>Capacity (MW)</b>
1	Kota Thermal Power Station (KTPS)	1240
2	Suratgarh Thermal Power Station (STPS)	1500
3	Ramgarh Gas Thermal Power Plant (RGTPS)	110.50
4	Dholpur Combined Cycle Gas based Power Station (DCCPP)	330
5	Mahi Hydel Power Project (MAHI)	140
6	Chhabra Thermal Power Station (CTPP Unit 1&2)	500

- 1.8. The annual account of RVUN comprises of audited figure of above mentioned plants and other plants also such as Giral and MMH etc. For the purpose of this true up, RVUN has considered the audited figure of plants mentioned in above table.
- 1.9. As per the decision of the Hon'ble Commission in the order dated 06.06.2013, where Commission has stated that the tariff already allowed for MMH projects under RERC Tariff Regulations 2009 is not subject to true up and Rs 3.78/kWh will continue to be allowed for the Mini-micro schemes, therefore RVUN has not filed the true up petition for MMH for FY 2012-13.
- 1.10. True up petition shall be filed separately for Giral unit 2.



## 2. TRUING-UP OF ARR OF RVUN FOR FY 2012-13

2.1 The true-up of ARR for each existing power station has been prepared and submitted under following heads:

- a. Truing-up of Capacity Charges
- b. Truing-up of Energy Charges
- c. Truing-up of Total ARR and revenue receipts

2.2 In this application Rajasthan Rajya Vidyut Utpadan Nigam Ltd submitting consolidated Truing-up Petition for existing power stations for FY 2012-13 based on audited accounts for FY 2012-13.

### Generation Details

2.3 The plant load factor, gross generation and unit sent out of RVUN power stations during FY 2012-13 has been detailed in Table below:

**Table 3: Generation of RVUN Plants for FY 2012-13**

S. No	Particulars	Approved RERC order	Actual/Audited FY13
1	Unit Generated (MU)	26930.53	25098.12
2	Auxiliary Consumption	2268.15	2242.30
3	Units Sent out (MU)	24662.38	22855.82

*\*The above generation details are excluding generation of MMH and Giral plant*

### Truing-up of Fixed Charges

2.4 The element-wise fixed cost approved by the Hon'ble Commission vide order dated 06—06-2013 (KTPS, STPS, RGTSP, DCCPP, CTPP and Mahi) and actual fixed cost as per Audited Accounts for FY 13 is given at Table 4. The variation figure between billed amount as per RERC approval and actual cost has also been indicated against each of the line items as mentioned below:

**Table 4: True-up of RVUN Fixed Cost for FY 13**

Particulars	Approved RERC order	Actual/Audited FY13	Variation
Operation & Maintenance Expenses	528.33	423.18	-105.15
Depreciation	559.13	574.43	15.30
Interest & Finance Charges	526.4	446.57	-79.83
Interest on Transitional Loan	0	88.18	88.18
Lease Rental	0	0.01	0.01
Insurance on Fixed Assets	2.92	8.91	5.99

Interest on Working Capital	265.94	194.59	-71.35
Recovery of ARR and Tariff petition Fees	1.86	2.11	0.25
Inter unit account Balance write off	15.78	15.78	0.00
Prior Period Expenses/Income	0	-17.73	-17.73
Additional Liability towards pension and gratuity	40.01	108.96	68.95
Total Fixed Charge	1940.37	1844.98	-95.39
Less: Non-Tariff Income	15.05	44.75	29.70
Net Fixed Charge	1925.32	1800.23	-125.09

- 2.5 The actual fixed cost during FY 2012-13 as per Audited Accounts was Rs. 1800.23 crores and has been less than the Approved fixed cost of Rs. 1925.32 crores by Rs 125.09 Crores. The major variation is towards operation and maintenance, interest on loan, interest on working capital loan, additional liability towards pension and gratuity and non tariff income, which has been explained in variation analysis table of respective power stations.
- 2.6 **Recovery of ARR and Tariff petition fee** has been allocated in the ratio of plant capacity, detail has been provided in the annexure attached.
- 2.7 **Inter unit account balances** claimed as per RERC tariff order for FY 2012-13.
- 2.8 **Additional Liability towards pension & Gratuity:** Hon'ble Commission had allowed the RVUN to recover the sum of Rs 40 crore per year towards shortfall in pension and gratuity from the tariff for a period of 5 years and this amount recovered from the tariff was to be paid to the PF trust. The Company had recovered instalments for the year 2009-10 to 2012-13 and against these 4 instalments RVUN has remitted Rs. 113.21 crore to the P.F. trust till 2012-13. The total amount remitted of Rs 113.21 crore has been allocated among the plants in the ratio of their installed capacity.
- 2.9 **The Capital cost of KTPS unit 7** has been considered as per Commission Order dated 6.06.2013, however the reduction on account of WCT has mentioned in 06.06.2013 order has not been considered while computing the capital cost by RVUN as the matter is pending in appeal before APTEL. Further the Additional capitalization of Rs. 17.90 crore as claimed in supplementary petition dated 19/09/13 (as also reflected in the audited figures of KTPS plant) has been added to the capital cost computed as follows:

**Table 5: Capital cost of KTPS unit 7**

Particular	Amount (Rs Crore)
Approved by Commission in order dated 6.6.2013	824.247
Add: WCT (Work Contract Tax) as matter is pending in appeal before APTEL	9.89
Total as on 31.3.2010	<b>834.137</b>
Add: Addition as per rejoinder and audited accounts for FY 2010-11	<b>17.90</b>
<b>Total: Balance of capital cost as on 31.3.2011</b>	<b>852.04</b>

- 2.10 **The Capital cost of STPS unit 6** has been considered as per Commission Order dated 6.06.2013, however the reduction on account of WCT has mentioned in 06.06.2013 order

has not been considered while computing the capital cost by RVUN as the matter is pending in appeal before APTEL. Further the Additional capitalization of Rs. 48.71 crore as claimed in supplementary petition dated 19/09/13 (as also reflected in the audited figures of STPS plant) has been added to the capital cost computed as follows:

**Table 6: Capital cost of STPS Unit 6**

<b>Particular</b>	<b>Amount (Rs Crore)</b>
Approved by Commission in order dated 6.6.2013	978.09
Add: WCT (Work Contract Tax) as matter is pending in appeal before APTEL	14.26
Total as on 31.3.2010	<b>992.35</b>
Add: Addition as per rejoinder and audited accounts for FY 2010-11	<b>48.71</b>
<b>Total: Balance of capital cost as on 31.3.2011</b>	<b>1041.06</b>

2.11 **The Capital cost of CTPP unit 1&2** has been considered as per Commission Order dated 6.06.2013, however the reduction on account of WCT has mentioned in 06.06.2013 order has not been considered while computing the capital cost by RVUN as the matter is pending in appeal before APTEL. The capital cost computed as follows:

**Table 7: Capital cost of CTPP Unit 1&2**

<b>Particular</b>	<b>Amount (Rs Crore)</b>
Approved by Commission in order dated 6.6.2013	2415.95
Add: WCT (Work Contract Tax) as matter is pending in appeal before APTEL	22.46
<b>Total: Balance of capital cost as on 31.3.2011</b>	<b>2438.42</b>

2.1 For the purpose of true up, the above capital cost for different plants have been used to compute the depreciation for FY 2012-13, due to change in capital cost depreciation in true up petition shall be differ from books of accounts.

### **Truing-up of Energy Charges**

2.2 The weighted averages of energy charges of Rs. 3.495 per kWh for KTPS (Unit 1 to 7), STPS (Unit 1 to 6), RGTPP, DCCP, Mahi hydel and CTPP unit 1&2 power station have been approved by the Hon'ble Commission vide order dated 06.06.2012 at the normative level. The actual energy charges based on audited Accounts for FY 13 works out to Rs. 3.919 per kWh. The consolidated position of fixed charges, variable charges and rate of sale of energy has been indicated at Table 8 below:

**Table 8: Rate of Sale of Energy of RVUN as a whole for FY 13**

S. No	Particulars	Approved RERC order	Actual/Audited FY13
1	Fixed Cost (Rs. in crore)	1925.32	1800.23
2	Variable Cost (Rs. in crore)	6692.99	7157.90
3	Total Cost (Rs. in crore)	8618.31	8958.13
4	Unit Sold to Discoms (MUs)	24662.38	22855.82
5	Rate of Fixed Charge(Rs/kWh)	0.781	0.788

6	Rate of Variable Charge(Rs./kWh)	2.714	3.132
7	Rate of Sale of Energy (Rs./kWh)	3.495	3.919

*\*Variable cost is inclusive of PLF based incentive*

- 2.3 Considering the income and cost as per audited accounts, RVUN request the Commission to allow total true of Rs. 224.29 crore to be recovered from three Discoms of Rajasthan.

**Table 9: Total True up for FY 2012-13 (Rs in Crore)**

Particulars	As per RERC Order	Actual/Audited FY 13
<u>Cost side True Up</u>		
Total Fixed Cost	1925.32	1800.23
Variable cost	6692.99	7139.43
Add: PLF Based Incentive		18.36
Total Expenses	8618.31	8958.02
Extra Cost running By RVUNL (A)	339.71	
<u>Revenue Side True up</u>		
Revenue From electricity (fixed And Energy charges)	8618.31	8665.89
Add: PLF Based Incentive		18.36
Add: True Up Income 2004-09	0.00	49.48
Total Revenue	8618.31	8733.74
Extra Amount billed to Discom by RVUNL (B)	115.43	
Total True up Calculation		
Total Amount Sought from Discom C=(A-B)	224.29	

- 2.4 The deviation in actual energy charges from approved figure is attributed to variation in operating parameters.
- 2.5 The plant wise detail of fixed and variable charges has been summary as following paras:

### 3. TRUING-UP OF ARR OF KTPS FOR FY 2012-13

3.1 The true-up of ARR for Kota Super Thermal Power Station has been prepared and analyzed under following heads:

- a. Truing-up of Capacity Charges
- b. Truing-up of Energy Charges
- c. Truing-up of Total ARR and revenue receipts

#### Generation Details

3.2 The plant availability, Plant Load Factor and generation of KTPS during FY 2012-13 was higher than target levels as detailed in Table below:

**Table 10: KSTPS Availability, PLF and Generation**

Particulars	Approved RERC order	Audited/ Apportioned F.Y. 2012-13
Plants units	Unit 1-7	Unit 1-7
Capacity in (MW)	1240.00	1240.00
Availability		92.44%
PLF	87.22%	89.66%
Unit generated(MU)	9474.19	9739.64
Auxiliary Consumption	9.27%	9.48%
Unit Sent Out (MU)	8595.93	8815.98

#### Truing-up of KTPS Capacity Charges

3.3 The element-wise fixed cost approved by the Hon'ble Commission and actual fixed cost as per audited accounts for FY 2012-13 are given at table below. The variation of fixed cost from audited figure also indicated against each other:

**Table 11: True-up of KTPS Fixed Cost for FY 13 (Rs. in Crore)**

Fixed Charges	Approved RERC order	Actual/Audited FY13	Deviation
1	2	3	4=3-2
Operation & Maintenance Charges	178.31	190.43	12.12
Depreciation	100.54	96.49	-4.05
Interest & Finance Charges	80.25	72.92	-7.33
Interest on Transitional Charges	0.00	19.80	19.80
Insurance on Fixed Assets	0.00	3.10	3.10
Interest on working Capital	91.40	63.16	-28.24
Recovery of ARR and tariff Petition fees	0.62	0.68	0.06
Inter unit account Balance sheet write off	10.01	10.01	0.00
Prior period Expenses/Income	0.00	8.13	8.13
Additional Liability towards pension & Gratuity	14.54	35.37	20.83
Total fixed Charges	475.67	500.09	24.42

Less:- Non-Tariff Income	6.00	15.78	9.78
Net fixed Charges	469.67	484.30	14.63
Rate of Fixed Charges Charge(Paisa/kWh)	0.55	0.55	0.00

3.4 The actual fixed cost of KTPS during FY 2012-13 is higher than the approved fixed cost of Rs. 484.30 crores by Rs. 14.63 Crores. The major variation is towards O&M Cost, depreciation charges, interest working capital loan and transitional loan and prior period expense which has been explained in variation analysis table. The element-wise deviation in actual fixed cost vis-à-vis fixed cost as approved by the Hon'ble Commission Order dated 06-06-2013 along with reason for such variation has been indicated in Table below.

**Table 12: Variation analysis of KTPS Fixed Cost for FY 13**

Individual Items	Deviation (in crores)	Type	Reason for deviation
Operation & Maintenance Charges	12.12	uncontrollable	The O&M Charges for KTPS during FY 2012-13 are as per audited balance sheet and have increased on account of old units
Depreciation	4.05	uncontrollable	Due to deviation in accounting heads of Capital cost in ARR order and audited accounts and due to reduction of capital cost on account of WCT
Interest & Finance Charges	7.33	uncontrollable	In the ARR order, the Hon'ble Commission had approved the Interest and Financial Charges as approved in the MYT Order.
Interest on Transitional Charges	19.80	uncontrollable	Difference due to variation in actual amount of loan, repayment and interest on loan.
Insurance on Fixed Assets	3.10	uncontrollable	Difference due to actual expense claimed as per Regulation 27 of RERC Tariff Regulation, 2009.
Interest on working Capital	28.24	uncontrollable	Calculated on normative basis as per RERC Tariff Regulations 2009 with actual costs incurred
Recovery of ARR and tariff Petition fees	0.06	uncontrollable	The audited figure has been allocated in the ratio of capacity.
Inter unit account Balance sheet write off	-	uncontrollable	Claimed as per RERC tariff order for FY 2012-13
Prior period Expenses/Income	8.13	uncontrollable	Expenditures related to already past period, unforeseen and claimed on actual basis. Prior period expense at corporate office allocated to plants in the ratio of installed capacity. Additional details provided in the notes below and annexure.

Additional Liability towards pension & Gratuity	20.83	uncontrollable	RVUN has remitted the amount to the P.F. trust till 2012-13 against the installment of 4 years i.e. 2010-2013
Non Tariff Income	9.78	uncontrollable	Actual have been claimed
Total	14.63		Total deviation in actual and approved net fixed cost

### Truing-up of Energy Charges

3.5 The energy charges of Rs. 2.75 per kWh have been approved by the Hon'ble Commission vide order dated 06.06.2013 at the normative level. The actual energy charges based on audited Accounts for FY 13 works out to Rs. 2.84 per kWh. The deviation in actual energy charges from approved figure is attributed to variation in operating parameters:

**Table 13: Actual Variable Charges of KTPS for FY 13**

S. No	Particulars	Approved RERC order	Actual/ Audited F.Y. 2012-13
	Plant Unit	Unit 1-7	Unit 1-7
1	Capacity in MW	1240.00	1240.00
2	Availability		92.44%
3	PLF	87.22%	89.66%
4	Unit Generated (MU)	9474.19	9739.64
5	Auxiliary Consumption	927.00%	9.48%
6	Unit Sent Out	8595.93	8815.98
7	SHR kCal/kWh	2581.00	2526.22
8	Specific Indian Coal Consumption (kg/kWh)	0.00	0.58
9	Specific Imported Coal Consumption (kg/kWh)	0.00	0.05
10	Specific Oil (HSD)Consumption (ml/kWh)	0.00	0.04
11	Specific Oil (HFO)Consumption (ml/kWh)	0.00	0.36
12	GCV of indian Coal (kCal/kg)	0.00	3700.00
13	GCV of imported Coal (kCal/kg)	0.00	6600.00
14	GCV of oil (HSD) (kCal/litre)	0.00	10504.00
15	GCV of oil (HFO) (kCal/Litre)	0.00	11150.00
16	Consumption (Indigenous Coal)		5693682
17	Consumption (Imported Coal)		530591
18	Consumption (HFO)		3500.29
19	Consumption (HSD)		411.452
20	Price of indian Coal (Rs. / MT)	3438.00	3580.00
21	Price of imported Coal (Rs. / MT)	8681.00	8145.00
22	Price of Oil (HSD) (Rs. / KL)	0.00	39882.00
23	Price of Oil (HFO) (Rs. / KL)	0.00	39197.63
24	Cost of coal (Rs. In crore)	0.00	2470.50
25	Cost of Oil (Rs. In crore)	0.00	15.57

26	Other charges		19.02
27	Variable cost of generation (Rs. In crore)	2360.48	2505.10
28	Variable Cost Rs. / kWh sent out	2.746	2.842

3.6 KTPS achieved a Plant Load Factor of 89.66 % exceeding the target PLF of 87.22%. As per RERC Regulations 2009, Coal/Lignite and Gas based stations are allowed to be paid an incentive at a flat rate of 25.0 paise/kWh for ex-bus scheduled energy corresponding to target Plant Load Factor, which is 82% for KTPS thermal power station. RVUN proposes Rs. 18.36 crores as recovery of incentive against True-up of ARR as per the Regulations.

3.7 There has been 301.5 MU loss of generation and considerable increase in auxiliary consumption due to frequent back down instructions from SLDC. The Hon'ble Commission may consider the impact of these factors while deciding the petition.

### **Total True up of KTPS**

3.8 The net effect of variation in Fixed Cost, Variable Charges and Revenue Receipts of actual as per Audited Accounts for FY 13 with approved ARR order vide RERC Order dated 06-06-2013 is summarised below:

**Table 14: Total True-up of KTPS for FY 13 (Rs. in Crore)**

Particulars	KTPS Unit 1-7	
	As per RERC order	Actual/ Audited
<u>Cost side True Up</u>		
Total Fixed Cost	469.67	484.30
Variable cost	2360.48	2505.10
Add: PLF Based Incentive	0	18.36
Total Expenses	2830.15	3007.76
Extra Cost running By RVUNL (A)	177.61	
<u>Revenue Side True up</u>		
Revenue From electricity (fixed And Energy charges)	2830.15	3035.04
Add: PLF Based Incentive	0.00	18.36
Total Revenue	2830.15	3053.40
Extra Amount billed to Discom by RVUNL (B)	223.25	
Total True up Calculation		
Total Amount Sought from Discom C=(A-B)	-45.64	

3.9 As presented in the table above RVUNL requests commission to allow the true up amount of Rs. (45.64) Crore as mentioned above.



#### 4. TRUING-UP OF ARR OF STPS FOR FY 2012-13

4.1 The true-up of ARR for Suratgarh Super Thermal Power Station has been prepared and analyzed under following heads:

- a. Truing-up of Capacity Charges
- b. Truing-up of Energy Charges
- c. Truing-up of Total ARR and revenue receipts

#### Generation Details

4.2 The Actual plant availability, Plant Load Factor and generation of STPS during FY 2012-13 against the approved are as detailed in table below:

**Table 15: SSTPS Availability, PLF and Generation**

Particulars	Approved RERC order	Audited/Appportioned FY 13
Plant Units	Unit 1-6	Unit 1-6
Capacity in (MW)	1500.00	1500.00
Availability	82.00%	85.86%
PLF	82.00%	80.44%
Unit Generated (MU)	10774.80	10569.82
Auxiliary Consumption	9.00%	9.05%
Units Sent out (MU)	9805.70	9613.25

#### Truing-up of STPS Capacity Charges

4.3 The element-wise fixed cost approved by the Hon'ble Commission vide order dated 06.06.2013 and actual fixed cost as per Audited Accounts for FY 13 is given at table below. The variation of fixed cost as per Audited Accounts from approved figure also indicated against each:

**Table 16: True-up of STPS Fixed Cost for FY 13 (Rs. in Crore)**

Fixed Charges	Approved RERC order	Actual/Audited FY13	Deviation
1	2	3	4=3-2
Operation & Maintenance Charges	215.7	146.72	-68.98
Depreciation	260.77	278.90	18.13
Interest & Finance Charges	179.44	126.84	-52.60
Interest on Transitional Charges	0	58.75	58.75
Insurance on Fixed Assets	0	1.51	1.51
Interest on working Capital	117.82	76.40	-41.42
Recovery of ARR and tariff Petition fees	0.75	0.83	0.08
Inter unit account Balance sheet write off	4.96	4.96	0.00
Prior period Expenses/Income	0	-18.83	-18.83
Additional Liability towards pension & Gratuity	17.39	42.78	25.39
Total Fixed Charge	796.83	718.86	-77.97
Less: Non-Tariff Income	7.75	9.30	1.55

Net Fixed Charge	789.08	709.55	-79.53
Rate of Fixed Charges Charge(Paisa/kWh)	0.80	0.74	-0.07

4.4 The actual fixed cost of STPS during FY 2012-13 as per audited accounts is less than the net fixed cost as per ARR Order dated 06.06.2013. The item of major variation in approved ARR was towards items like operation and maintenance, depreciation and interest on working capital, term loan and transitional loan and additional liability towards pension and gratuity. The element-wise deviation in actual fixed cost vis-à-vis fixed cost according to as approved by the Hon'ble Commission Order dated 06.06.2013 along with reason for such variation has been indicated in table below.

**Table 17: Variation analysis of STPS Fixed Cost for FY 13**

<b>Fixed Charges</b>			
Individual Items	Deviation (in crores)	Type	Reason for deviation
Operation & Maintenance Charges	-68.98	uncontrollable	Claimed as per actual
Depreciation	18.13	uncontrollable	Due to deviation in accounting heads of Capital cost in ARR order and audited accounts and due to reduction of capital cost on account of WCT
Interest & Finance Charges	-52.60	uncontrollable	In the ARR order, the Hon'ble Commission had approved the Interest and Financial Charges as approved in the MYT Order.
Interest on Transitional Charges	58.75	uncontrollable	Difference due to variation in actual amount of loan, repayment and interest on loan.
Insurance on Fixed Assets	1.51	uncontrollable	Difference due to actual expense claimed as per Regulation 27 of RERC Tariff Regulation,2009.
Interest on working Capital	-41.42	uncontrollable	Calculated on normative basis as per RERC Tariff Regulations 2009 with actual costs incurred
Recovery of ARR and tariff Petition fees	0.08	uncontrollable	The audited figure has been allocated in the ratio of capacity.
Inter unit account Balance sheet write off	0.00	uncontrollable	Claimed as per RERC tariff order for FY 2012-13
Prior period Expenses/Income	-18.83	uncontrollable	Expenditures related to already past period, unforeseen and claimed on actual basis. Prior period expense at corporate office allocated to plants in the ratio of installed capacity Additional details provided in the notes below and annexure.

Additional Liability towards pension & Gratuity	25.39	uncontrollable	RVUN has remitted the amount to the P.F. trust till 2012-13 against the installment of 4 years i.e. 2010-2013
Non-Tariff Income	1.55	uncontrollable	Actual have been claimed
<b>Total</b>	<b>-79.53</b>		Total deviation in actual and approved net fixed cost

### Truing-up of Energy Charges

4.5 The energy charges of Rs. 3.00 per kWh have been approved by the Hon'ble Commission vide order dated 06.06.13 at the normative level. The actual energy charges based on audited Accounts for FY 13 works out to Rs. 3.430 per kWh. The deviation in actual energy charges from approved figure is attributed to variation in operating parameters:

**Table 18: Actual Variable Charges of STPS for FY 13**

S. No	Particulars	Approved RERC order	Audited/ Approtioned F.Y. 2012-13
	Plant Unit	Unit 1-6	Unit 1-6
1	Capacity in MW	1500	1500
2	Availability	0	85.86%
3	PLF	82.00%	80.44%
4	Unit Generated (MU)	10774.80	10569.82
5	Auxiliary Consumption	9.00%	9.05%
6	Unit Sent Out	9805.70	9613.25
7	SHR Kcl/kWh	2491.58	2540.00
8	Specific Indian Coal Consumption (kg/kWh)	0.00	0.61
9	Specific Imported Coal Consumption (kg/kWh)	0.00	0.04
10	Specific Oil (LDO)Consumption (ml/kWh)	0.00	0.05
11	Specific Oil (HFO)Consumption (ml/kWh)	0.00	1.02
12	GCV of indian Coal (kCal/kg)	0.00	3754.00
13	GCV of imported Coal (kCal/kg)	0.00	6450.00
14	GCV of (LDO) (kCal/ltr)	0.00	9200.00
15	GCV of (HFO) (kCal/ltr)	0.00	9500.00
16	Price of indian Coal (Rs. / MT)	4047.00	4442.73
17	Price of imported Coal (Rs. / MT)	8836.00	8794.07
18	Price of Oil (LDO) (Rs. / KL)	0.00	50417.18
19	Price of Oil (HFO) (Rs. / KL)	0.00	45752.75
20	Total Fuel Consumption - Indian Coal	0.00	6390240.00
21	Total Fuel Consumption - Imported Coal	0.00	427561.00
22	Cost of coal (Rs. In crore)	0.00	3215.01
23	Cost of Oil (Rs. In crore)	0.00	51.73
24	Other charges		30.73

25	Variable cost of generation (Rs. In crore)	2941.71	3297.47
26	Variable Cost Rs. / kWh sent out	3.000	3.430

4.6 The Plant Load Factor was of 80.44% against the target PLF of 82.00 due to instructions from SLDC from for back down of STPS units

4.7 There has been 847.4 MU loss of generation and considerable increase in SHR & auxiliary consumption due to frequent back down instructions from SLDC. The Hon'ble Commission may consider the impact of these factors while deciding the petition.

4.8 The variable cost of generation of STPS during FY 2012-13 was Rs. 3297.47 Crores corresponding to 9613.25 MU against target level of 9805.70 MU. On per unit basis this works out to Rs. 3.430 per kWh against allowed level of Rs. 3.00 per kWh.

#### **Total True up of STPS**

4.9 The net effect of variation in Fixed Cost, Variable Charges and Revenue Receipts of actual as per Audited Accounts for FY 13 with approved ARR order vide RERC Order dated 06.06.13 is summarised below:

**Table 19: Total True-up of STPS for FY 13 (Rs. in Crore)**

Particulars	STPS Unit 1-6	
	As per RERC order	Actual/ Audited
<u>Cost side True Up</u>		
Total Fixed Cost	789.08	709.55
Variable cost	2941.71	3297.47
Add: PLF Based Incentive	0	0.00
Total Expenses	3730.79	4007.02
Extra Cost running By RVUNL (A)	276.23	
<u>Revenue Side True up</u>		
Revenue From electricity (fixed And Energy charges)	3730.79	4003.48
Add: PLF Based Incentive		0.00
Total Revenue	3730.79	4003.48
Extra Amount billed to Discom by RVUNL (B)	272.69	
Total True up Calculation		
Total Amount Sought from Discom C=(A-B)	3.54	

4.10 As presented in the table above RVUNL requests commission to allow the true up amount of Rs 3.54 Crore as mentioned.

## 5. TRUING-UP OF ARR OF RGTPS FOR FY 2012-13

5.1. The true-up of ARR for Ramgarh Gas Thermal Power Station has been prepared and analyzed under following heads:

- a. Truing-up of Capacity Charges
- b. Truing-up of Energy Charges
- c. Truing-up of Total ARR and revenue receipts

### Generation Details

5.2. The actual plant availability, plant load factor and generation of RGTPS during FY 2012-13 against the target levels as detailed in table below:

**Table 20: RGTPS Availability, PLF and Generation**

Particulars	As per RERC order	Actual/ Audited
Plants units	Units	Units
Capacity in (MW)	110.50	110.50
Availability		69.79%
PLF	70.00%	51.44%
Unit generated(MU)	677.59	497.93
Auxiliary Consumption	5.00%	1.81%
Auxiliary Consumption Mus	33.88	9.01
Unit Sent Out (MU)	643.71	488.92

### Truing-up of RGTPS Fixed Charges

5.3. The element-wise fixed cost as approved by the Hon'ble Commission vide order dated 06.06.13 and actual fixed cost as per Audited Accounts for FY 13 is given at table below. The variation of fixed cost as per Audited Accounts from approved figure also indicated against each:

**Table 21: True-up of RGTPS Fixed Cost for FY 13 (Rs. in Crore)**

Fixed Charges	Approved RERC order	Actual/Audited FY13	Deviation
1	2	3	4=3-2
Operation & Maintenance Charges	14.45	11.74	-2.71
Depreciation	13.92	14.92	1.00
Interest & Finance Charges	2.6	1.91	-0.69
Interest on Transitional Charges	0	3.00	3.00
Insurance on Fixed Assets	0	0.33	0.33
Interest on working Capital	5.21	5.63	0.42
Recovery of ARR and tariff Petition fees	0.06	0.06	0.00
Inter unit account Balance sheet write off	0.38	0.38	0.00
Prior period Expenses/Income	0	-0.14	-0.14

Additional Liability towards pension & Gratuity	1.54	3.15	1.61
Total fixed Charges	38.16	40.98	2.82
Less:- Non-Tariff Income	0.4	7.99	7.59
Net fixed Charges	37.76	32.99	-4.77
Rate of Fixed Charges Charge(Paisa/kWh)	0.59	0.67	0.09

5.4. The actual fixed cost of RGTPS during FY 2012-13 is less than the net fixed cost as per RERC Order dated 06.06.13. The element contributing most to the variance is O&M, interest and finance charges and non tariff income expenditure of the plant. The element-wise deviation in actual fixed cost vis-à-vis fixed cost as per approved Order dated 20.09.12 along with reason for such variation has been indicated in table below.

**Table 22: Variation analysis of RGTPS Fixed Cost for FY 13**

Fixed Charges			
Individual Items	Deviation (in crores)	Type	Reason for deviation
Operation & Maintenance Charges	-2.71	uncontrollable	Claimed as per actual
Depreciation	1.00	uncontrollable	Due to deviation in accounting heads of Capital cost in ARR order
Interest & Finance Charges	-0.69	uncontrollable	In the ARR order, the Hon'ble Commission had approved the Interest and Financial Charges as approved in the MYT Order. Difference due to variation in actual amount of loan, repayment and interest on loan.
Interest on Transitional Charges	3.00	uncontrollable	
Insurance on Fixed Assets	0.33	uncontrollable	Difference due to actual expense claimed as per Regulation 27 of RERC Tariff Regulation, 2009.
Interest on working Capital	0.42	uncontrollable	Calculated on normative basis as per RERC Tariff Regulations 2009 with actual costs incurred
Recovery of ARR and tariff Petition fees	0.00	uncontrollable	The audited figure has been allocated in the ratio of capacity.
Inter unit account Balance sheet write off	0.00	uncontrollable	Claimed as per RERC tariff order for FY 2012-13
Prior period Expenses/Income	-0.14	uncontrollable	Expenditures related to already past period, unforeseen and claimed on actual basis. Prior period expense at corporate office allocated to plants in the ratio of installed capacity. Additional details provided in the notes below and annexure.
Additional Liability towards pension & Gratuity	1.61	uncontrollable	RVUN has remitted the amount to the P.F. trust till 2012-13 against the installment of 4 years

			i.e. 2010-2013
Non-Tariff Income	7.59	uncontrollable	Actual have been claimed
Total	-4.77		Total deviation in actual and approved net fixed cost

### Truing-up of Energy Charges

5.5. The energy charges of Rs. 2.82 per kWh have been approved by the Hon'ble Commission vide order dated 06.06.13 at the normative level. The actual energy charges based on audited Accounts for FY 13 works out to Rs. 4.86 per kWh. The deviation in actual energy charges from approved figure is attributed to variation in operating parameters:

**Table 23: Actual Variable Charges of RGTPS for FY 13**

Sr. No.	Particulars	As per RERC order	Actual/ Audited
	Plant Unit	Units	Units
1	Capacity in MW	110.5	110.50
2	PLF	70%	51.44%
3	Unit Generated (MU)	677.59	497.93
4	Auxiliary Consumption	5.00%	1.81%
5	Unit Sent Out (MU)	643.71	488.92
6	SHR kCal/kWh	2414.96	2571.93
7	Specific Consumption of oil (ml/kWh)		0.12
8	Specific consumption of natural gas (Scm/kWh)		0.55
9	GCV of Oil		9300.00
10	GCV of Gas (kCal/kg)		4691.34
11	Price of Gas (Rs/ th. SCM)		8490.46
12	Price of Oil(Rs/KL)		32366.35
13	Cost of Gas (Rs. In crore)		231.67
14	Cost of Oil (Rs. In crore)		0.20
15	Other charges		5.53
16	Variable cost of generation (Rs. In crore)	181.62	237.40
17	Variable Cost Rs. / kWh sent out	2.822	4.856

5.6. RGTPS could not achieve its target plant load factor i.e. 70% due to less availability of gas. This also in turn has increased the SHR of the plant as the plant was running at partial load at regular basis.

5.7. There has been 4.11 MU loss of generation and increase in SHR due to frequent back down instructions from SLDC. The Hon'ble Commission may consider the impact of these factors while deciding the petition.

### Total True up of RGTPS

5.8. The net effect of variation in Fixed Cost, Variable Charges and Revenue Receipts of actual as per Audited Accounts for FY 13 with approved ARR order vide RERC Order dated 20.09.12 is summarised below:

**Table 24: Total True-up of RGTPS for FY 13 (Rs. in Crore)**

Particulars	RGTPS	
	As per RERC order	Actual/ Audited 13
<u>Cost side True Up</u>		
Total Fixed Cost	37.76	32.99
Variable cost	181.62	237.51
Total Expenses	219.38	270.50
Extra Cost running By RVUNL (A)	51.12	
<u>Revenue Side True up</u>		
Revenue From electricity (fixed And Energy charges)	219.38	191.72
Total Revenue	219	191.72
Extra Amount billed to Discom by RVUNL (B)	-27.66	
Total True up Calculation		
Total Amount Sought from Discom C=(A-B)	78.78	

5.9. As presented in the table above RVUNL requests commission to allow the true up amount of Rs. 78.78 Crore as mentioned.



## 6. TRUING-UP OF ARR OF DCCPP FOR FY 2012-13

7.1. The true-up of ARR for Dholpur Combined Cycle Power Plant has been prepared and analyzed under following heads:

- a. Truing-up of Capacity Charges
- b. Truing-up of Energy Charges
- c. Truing-up of Total ARR and revenue receipts

### Generation Details

7.2. The plant availability, Plant Load Factor and generation of DCCPP during FY 2012-13 was higher than target levels as detailed in table below:

**Table 25: DCCPP Availability, PLF and Generation for FY 13**

Particulars	Approved RERC order	Actual/Audited FY 13
Capacity in (MW)	330	330
Availability		49%
PLF	80.38%	40.21%
Unit Generated (MU)	2324	1162
Auxiliary Consumption (%)	3.00%	3.36%
Auxiliary Consumption (MU)	70	39
Units Sent out (MU)	2,254	1,123

### Truing-up of DCCPP Fixed Charges

7.3. The element-wise fixed cost bill as approved by the Hon'ble Commission vide order dated 06.06.13 and actual fixed cost as per Audited Accounts for FY 13 is given at table. The variation of Actual audited fixed cost from approved figure also indicated against each:

**Table 26: True-up of DCCPP Fixed Cost for FY 13 (Rs. in Crore)**

Fixed Charges	Approved RERC order	Actual/Audited FY13	Deviation
1	2	3	4=3-2
Operation & Maintenance Expenses	35.56	15.16	-20.40
Depreciation	57.2	56.98	-0.22
Interest & Finance Charges	58.52	56.73	-1.79
Interest on Transitional Loan	0	6.62	6.62
Lease rent	0	0.00	0.00
Insurance on Fixed Assets	0	1.16	1.16
Interest on Working Capital	23.48	16.81	-6.67
Recovery of ARR and Tariff petition Fees	0.17	0.18	0.01
Inter unit account Balance write off	0.32	0.32	0.00
Prior Period Expenses/Income	0	-8.12	-8.12
Additional Liability towards pension and gratuity	4.59	9.41	4.82

Total Fixed Charge	179.84	155.25	-24.59
Less: Non-Tariff Income	0.4	6.02	5.62
Net Fixed Charge	179.44	149.23	-30.21
Rate of Fixed Charges Charge(Paisa/kWh)	0.80	1.33	0.53

7.4. The actual fixed cost of DCCPP during FY 2012-13 has been lower than the net fixed cost as per RERC Order dated 20.09.12. The element-wise deviation in actual fixed cost vis-à-vis fixed cost as per approved Order dated 20.09.12 along with reason for such variation has been indicated in table below.

**Table 27: Variation analysis of DCCPP Fixed Cost for FY 13**

Fixed Charges			
Individual Items	Deviation (in crores)	Type	Reason for deviation
Operation & Maintenance Expenses	-20.40	uncontrollable	Claimed as per actual
Depreciation	-0.22	uncontrollable	Due to deviation in accounting heads of Capital cost in ARR order
Interest & Finance Charges	-1.79	uncontrollable	In the ARR order, the Hon'ble Commission had approved the Interest and Financial Charges as approved in the MYT Order. Difference due to variation in actual amount of loan, repayment and interest on loan.
Interest on Transitional Loan	6.62	uncontrollable	
Insurance on Fixed Assets	1.16	uncontrollable	Difference due to actual expense claimed as per Regulation 27 of RERC Tariff Regulation, 2009.
Interest on Working Capital	-6.67	uncontrollable	Calculated on normative basis as per RERC Tariff Regulations 2009 with actual costs incurred
Recovery of ARR and Tariff petition Fees	0.01	uncontrollable	The audited figure has been allocated in the ratio of capacity.
Inter unit account Balance write off	0.00	uncontrollable	Claimed as per RERC tariff order for FY 2012-13
Prior Period Expenses/Income	-8.12	uncontrollable	Expenditures related to already past period, unforeseen and claimed on actual basis. Prior period expense at corporate office allocated to plants in the ratio of installed capacity. Additional details provided in the notes below and annexure.
Additional Liability towards pension and gratuity	4.82	uncontrollable	RVUN has remitted the amount to the P.F. trust till 2012-13 against the installment of 4 years i.e. 2010-2013
Non-Tariff Income	5.62	uncontrollable	Actual have been claimed
Total	-30.21		Total deviation in actual and

		approved net fixed cost
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### Truing-up of Energy Charges

7.5. The energy charges of Rs. 3.00 per kWh have been approved by the Hon'ble Commission vide order dated 06.06.13 at the normative level. The actual energy charges based on audited Accounts for FY 13 works out to Rs. 3.60 per kWh. The deviation in actual energy charges from approved figure is attributed to variation in operating parameters:

**Table 28: Actual Variable Charges of DCCPP for FY 13**

Particulars	Approved RERC order	Actual/Audited FY13
Capacity in (MW)	330	330
Availability		49.34%
PLF	80.38%	40.21%
Unit Generated (MU)	2323.63	1162
Auxiliary Consumption	3.00%	3.36%
Units Sent out (MU)	2,253.93	1123
SHR kCal/kWh	1,950.00	2444.23
Specific Gas consumption(scm/kWh)		0.27
GCV of gas (kCal/scm)		9202.97
Price of gas (Rs./ Scm)		13.04
Cost of Gas (Rs. In Cr)		402.66
Other Charges		1.73
Variable Cost of generation (Rs.in Cr)	678.15	404.39
Variable cost Rs. /kWh sent out	3.00	3.60

7.6. DCCPP could not achieve its target PLF which is 80% due to unavailability of gas. This also in turn has increased the SHR of the plant as the plant was running at partial load at regular basis.

7.7. There has been 13.6 MU loss of generation and increase in SHR and auxiliary consumption due to frequent back down instructions from SLDC. The Hon'ble Commission may consider the impact of these factors while deciding the petition.

### Total True up of DCCPP

7.8. The net effect of variation in Fixed Cost, Variable Charges and Revenue Receipts of actual as per Audited Accounts for FY 13 with approved ARR order vide RERC Order dated 06.06.13 as follows:

**Table 29: True-up of DCCPP Revenue and Cost of Generation for FY 13 (Rs. in Crore)**

Particulars	DCCP	
	As per RERC order	Actual/ Audited 12
<u>Cost side True Up</u>		
Total Fixed Cost	179.44	149.23
Variable cost	678.15	404.39

Total Expenses	857.59	553.62
Extra Cost running By RVUNL (A)	-303.97	
<u>Revenue Side True up</u>		
Revenue From electricity (fixed And Energy charges)	857.59	433
Total Revenue	858	433
Extra Amount billed to Discom by RVUNL (B)	-425.08	
Total True up Calculation		
Total Amount Sought from Discom C=(A-B)	121.11	

7.9. As presented in the table above RVUNL requests commission to allow the true up amount of Rs. 121.11 Crore as mentioned.

## 7. TRUING-UP OF ARR OF MAHI HYDEL POWER PROJECT FOR FY 2012-13

7.1. The true-up of ARR for Mahi Hydel Power Project has been prepared and analyzed under following heads:

- a. Gross Generation , Availability and PLF during FY 13
- b. Truing-up of Fixed Cost for FY 13
- c. Truing-up of ARR and Revenue for FY 13

### Generation Details

7.2. The installed capacity of Mahi Hydel power Station is 140 MW. The actual figures of Gross generation, PLF & net energy sale to three Discoms from Mahi Hydel power Station of RVUN for the period FY13 are as shown in table below:

**Table 30: Mahi HEP Availability, PLF and Generation**

Particulars	Approved RERC order	Actual/Audited FY13
Capacity in (MW)	140	140.00
Capacity Index		46.32%
Design energy		288.66
Unit Generated (MU)	176.32	204.18
Auxiliary Consumption (MUs)	1.84	1.43
Units Sent out (MU)	174.48	202.75

### Truing-up of Mahi HEP Fixed Charges

7.3. The element-wise fixed cost as approved by the Hon'ble Commission vide order dated 06.06.13 and actual fixed cost as per Audited Accounts for FY 13 is given at table. The variation from approved figure also indicated against each:

**Table 31: True-up of Mahi Fixed Cost for FY 13 (Rs. in Crore)**

Particulars	Approved RERC order	Actual/Audited FY13	Deviation
Operation & Maintenance Expenses	12.41	15.35	2.94
Depreciation	6.18	4.20	-1.98
Interest & Finance Charges	0	0.00	0.00
Interest on Transitional Loan		0.00	0.00
Lease Rental		0.00	0.00
Insurance on Fixed Assets	0	0.00	0.00
Interest on Working Capital	0.93	7.13	6.20
Recovery of ARR and Tariff petition Fees	0.01	0.08	0.07
Inter unit account Balance write off	0.11	0.11	0.00
Deferred Revenue Expenditure			0.00
Prior Period Expenses/Income		-0.07	-0.07

Additional Liability towards pension and gratuity	1.95	3.99	2.04
			0.00
<b>Total Fixed Charge</b>	<b>21.59</b>	<b>30.79</b>	9.20
Less: Non-Tariff Income	0.3	0.31	0.01
<b>Net Fixed Charge</b>	<b>21.29</b>	<b>30.49</b>	9.20
Rate of Fixed Charges Charge(RS/kWh)	1.220	1.504	0.284

7.4. The element-wise deviation in actual fixed cost vis-à-vis fixed cost as per approved Order dated 06.06.13 along with reason for such variation has been indicated in Table.

**Table 32: Variation analysis of Mahi Fixed Cost for FY 13**

Fixed Charges			
Individual Items	Deviation (in crores)	Type	Reason for deviation
Operation & Maintenance Expenses	2.94	uncontrollable	Claimed as per actual
Depreciation	-1.98	uncontrollable	Due to deviation in accounting heads of Capital cost in ARR order
Interest on Working Capital	6.20	uncontrollable	Calculated on normative basis as per RERC Tariff Regulations 2009 with actual costs incurred
Recovery of ARR and Tariff petition Fees	0.07	uncontrollable	The audited figure has been allocated in the ratio of capacity.
Prior Period Expenses/Income	-0.07	uncontrollable	Expenditures related to already past period, unforeseen and claimed on actual basis. Prior period expense at corporate office allocated to plants in the ratio of installed capacity Additional details provided in the notes below and annexure.
Additional Liability towards pension and gratuity	2.04	uncontrollable	RVUN has remitted the amount to the P.F. trust till 2012-13 against the instalment of 4 years i.e. 2010-2013
Non-Tariff Income	0.01	uncontrollable	Actual have been claimed
Total	9.20		Total deviation in actual and approved net fixed cost

### Truing-up of Energy Charges

7.5. The Commission approved the fixed cost of Rs. 21.29 crore against the approved figure the RVUN has incurred fixed cost of Rs. 30.49 crore:

**Table 33: Energy and Capacity Charges of Mahi HEP for FY 13 (Rs. in Crore)**

Particulars	Mahi	
	As per RERC order	Actual/ Audited 13
<u>Cost side True Up</u>		

Total Fixed Cost	21.29	30.49
Variable cost	0.00	0.00
Total Expenses	21.29	30.49
Extra Cost running By RVUNL (A)	9.20	
<u>Revenue Side True up</u>		
Revenue From electricity (fixed And Energy charges)	21.29	26.36
Total Revenue	21.29	26.36
Extra Amount billed to Discom by RVUNL (B)	5.07	
Total True up Calculation		
Total Amount Sought from Discom C=(A-B)	4.13	

7.6. Mahi has not been able to achieve its target PLF as prescribed by RERC. This under-achievement of performance parameters is due to scarcity of water required for power generation.

7.7. As presented in the table above RVUNL requests Commission to allow the true up amount of Rs 4.13 Crore as mentioned.

## 8. TRUING-UP OF ARR OF CTPP FOR FY 2012-13

8.1.The true-up of ARR for Chhabra Thermal Power Station has been prepared and analyzed under following heads:

- d. Truing-up of Capacity Charges
- e. Truing-up of Energy Charges
- f. Truing-up of Total ARR and revenue receipts

### Generation Details

8.2.The Actual plant availability, Plant Load Factor and generation of CTPP during FY 2012-13 against the approved are as detailed in table below:

**Table 34: CTPP Availability, PLF and Generation**

Particulars	Approved RERC order	Audited/ Approtioned F.Y. 2012-13
	Unit-1-2	Unit-1-2
Capacity in (MW)	500	500
Availability		74.60%
PLF	80.00%	66.76%
Unit Generated (MU)	3504	2924
Auxiliary Consumption	9.00%	10.69%
Auxiliary Consumption (Mus)	315	313
Units Sent out (MU)	3189	2612

### Truing-up of CTPP Capacity Charges

8.3.The element-wise fixed cost approved by the Hon'ble Commission vide order dated 06.06.2013 and actual fixed cost as per Audited Accounts for FY 13 is given at table below. The variation of fixed cost as per Audited Accounts from approved figure also indicated against each:

**Table 35: True-up of CTPP Fixed Cost for FY 13 (Rs. in Crore)**

Fixed Charges	Approved RERC order	Actual/Audited FY13	Deviation
1	2	3	4=3-2
Operation & Maintenance Expenses	71.90	43.79	-28.11
Depreciation	120.52	122.93	2.41
Interest & Finance Charges	205.59	188.17	-17.42
Insurance on Fixed Assets	2.92	2.81	-0.11
Interest on Working Capital	27.10	25.47	-1.63
Recovery of ARR and Tariff petition Fees	0.25	0.28	0.03
Prior Period Expenses/Income	0.00	1.30	1.30
Additional Liability towards pension and gratuity	0.00	14.26	14.26
Total Fixed Charge	428.28	399.01	-29.27
Less: Non-Tariff Income	0.20	5.34	5.14



Net Fixed Charge	428.08	393.66	-34.42
Rate of Fixed Charges Charge(Paisa/kWh)	1.34	1.51	0.16

8.4. The actual fixed cost of CTPP during FY 2012-13 as per audited accounts is less than the net fixed cost as per ARR Order dated 06.006.2013. The item of major variation in approved ARR was towards items like operation and maintenance and interest on loan. The element-wise deviation in actual fixed cost vis-à-vis fixed cost according to as approved by the Hon'ble Commission Order dated 06.06.2013 along with reason for such variation has been indicated in table below.

**Table 36: Variation analysis of CTPP Fixed Cost for FY 13**

Individual Items	Deviation (in crores)	Type	Reason for deviation
Operation & Maintenance Expenses	-28.11	uncontrollable	Claimed as per actual
Depreciation	2.41	uncontrollable	Due to deviation in accounting heads of Capital cost in ARR order and audited accounts and due to reduction of capital cost on account of WCT
Interest & Finance Charges	-17.42	uncontrollable	In the ARR order, the Hon'ble Commission had approved the Interest and Financial Charges as approved in the MYT Order. Difference due to variation in actual amount of loan, repayment and interest on loan.
Insurance on Fixed Assets	-0.11	uncontrollable	Difference due to actual expense claimed as per Regulation 27 of RERC Tariff Regulation, 2009.
Interest on Working Capital	-1.63	uncontrollable	Calculated on normative basis as per RERC Tariff Regulations 2009 with actual costs incurred
Recovery of ARR and Tariff petition Fees	0.03	uncontrollable	The audited figure has been allocated in the ratio of capacity.
Prior Period Expenses/Income	1.30	uncontrollable	Expenditures related to already past period, unforeseen and claimed on actual basis. Prior period expense at corporate office allocated to plants in the ratio of installed capacity. Additional details provided in the notes below and annexure.
Additional Liability towards pension and gratuity	14.26	uncontrollable	RVUN has remitted the amount to the P.F. trust till 2012-13 against the installment of 4 years i.e. 2010-2013
Less: Non-Tariff Income	5.14	uncontrollable	Actual have been claimed
Total	-34.42		Total deviation in actual and approved net fixed cost

## Truing-up of Energy Charges

8.5. The energy charges of Rs. 1.66 per kWh have been approved by the Hon'ble Commission vide order dated 06.06.2013 at the normative level. The actual energy charges based on audited Accounts for FY 13 works out to Rs. 2.66 per kWh. The deviation in actual energy charges from approved figure is attributed to variation in operating parameters:

**Table 37: Actual Variable Charges of CTPP for FY 13**

Sr. No.	Particulars	RERC Order	Auiteded/Actual
		Unit 1-2	Unit 1-2
	Plant Unit	Unit 1-2	Unit 1-2
1	Capacity in MW	500	500
2	PLF	80%	66.76%
3	Unit Generated (MU)	3504	2924
4	Auxiliary Consumption	9%	11%
5	Unit Sent Out	3188.64	2611.60
6	SHR Kcl/kWh	2356.57	2708.65
7	Specific Indian Coal Consumption (kg/kWh)		0.568
8	Specific Imported Coal Consumption (kg/kWh)		0.072
9	Specific Oil (HSD)Consumption (ml/kWh)		1.378
10	Specific Oil (LDO)Consumption (ml/kWh)		0.273
11	GCV of indian Coal (kCal/kg)		3901
12	GCV of imported Coal (kCal/kg)		6600
13	GCV of (HSD) Coal (kCal/kg)		10504
14	GCV of (LDO) Coal (kCal/kg)		11200
15	GCV of (HFO) Coal (kCal/kg)		0
16	Price of indian Coal (Rs. / MT)		2916.83
17	Price of imported Coal (Rs. / MT)		8660.35
18	Price of Oil (HSD) (Rs. / KL)		50500.00
19	Price of Oil (LDO) (Rs. / KL)		63983.97
20	Price of Oil (HFO) (Rs. / KL)		0.00
21	Cost of coal (Rs. In crore)		667.20
22	Cost of Oil (Rs. In crore)		26.47
23	Other charges		3.53
24	Capitalization		-2.12
25	Variable cost of generation (Rs. In crore)	531.03	695.08
26	Variable Cost Rs. / kWh sent out	1.67	2.66

8.6. The Plant Load Factor was 66.76% against the target PLF of 80%. The lower PLF of CTPP during FY 2012-13 is attributed to stabilization of new plant.

8.7. There has been 291.5 MU loss of generation and incre in SHR & auxiliary consumption due to frequent back down instructions from SLDC. The Hon'ble Commission may consider the impact of these factors while deciding the petition.

8.8.The variable cost of generation of CTPP during FY 2012-13 was Rs. 695.08 Crores corresponding to 2611.60 MU against target level of 3188.64 MU. On per unit basis this works out to Rs. 2.66 per kWh against allowed level of Rs. 1.67 per kWh.

### Total True up of CTPP

8.9.The net effect of variation in Fixed Cost, Variable Charges and Revenue Receipts of actual as per Audited Accounts for FY 13 with approved ARR order vide RERC Order dated 06.06.2013 is summarised below:

**Table 38: Total True-up of CTPP for FY 13 (Rs in crore)**

Particulars	CTPP	
	As per RERC order	Actual/ Audited 13
<u>Cost side True Up</u>		
Total Fixed Cost	428.08	393.66
Variable cost	531.03	695.08
Total Expenses	959.11	1088.74
Extra Cost running By RVUNL (A)	129.63	
<u>Revenue Side True up</u>		
Revenue From electricity (fixed And Energy charges)	959.11	976.79
Total Revenue	959.11	976.79
Extra Amount billed to Discom by RVUNL (B)	17.68	
Total True up Calculation		
Total Amount Sought from Discom C=(A-B)	111.96	

8.10. As presented in the table above RVUNL requests commission to allow the true up amount of Rs 111.96 Crore as mentioned.

### 9. RESPONDENTS:-

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

9.2 The Rajasthan Rajya Vidyut Prasaran Nigam Limited –managing the operation of State Load Dispatch Centre is respondents for the above petition.

### 10. PRAYER

RVUN humbly requests the Hon'ble Commission to:

- Determine the True-up of Annual Revenue Requirement for FY 2012-13 based on Audited Accounts of RVUN for FY 2012-13 as per submission made above;
- And pass such other and further orders as are deemed fit and proper in the facts and circumstances of the case.

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

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

## Annexure

### Annexure A: O&M cost of Plants

#### KTPS

Added Items		Amount (In Crore)
74	Repair and Maintenance	93.94
75	Employee Cost	73.31
76	Administrative & General Expenses	18.36
Deductions		0.00
79.61	Deferred Revenue Exp. Written Off	0.00
76.104	Insurance on Fixed Assets	3.10
76.126	Tariff Fees	0.00
74.9	R & M Expense Capitalised	0.00
75.9	Employee Cost Capitalised	0.00
76.9	Admn. & Gen. Expenses Capitalised	0.00
KTPS Total		182.51
Corporate Allocation		7.93
Total		190.43

## STPS

Added Items		Amount (In Crore)
74	Repair and Maintenance	81.90
75	Employee Cost	43.54
76	Administrative & General Expenses	13.65
Deductions		0.00
79.61	Deferred Revenue Exp. Written Off	0.00
76.104	Insurance on Fixed Assets	1.51
76.126	Tariff Fees	0.00
74.9	R & M Expense Capitalised	0.00
75.9	Employee Cost Capitalised	0.00
76.9	Admn. & Gen. Expenses Capitalised	0.45
STPS Total		137.13
Corporate Allocation		9.59
Total		146.72

**RGTP**

Added Items		Amount (In Crore)
74	Repair and Maintenance	6.56
75	Employee Cost	5.99
76	Administrative & General Expenses	1.45
Deductions		0.00
79.61	Deferred Revenue Exp. Written Off	0.00
76.104	Insurance on Fixed Assets	0.33
76.126	Tariff Fees	0.00
74.9	R & M Expense Capitalised	0.00
75.9	Employee Cost Capitalised	1.52
76.9	Admn. & Gen. Expenses Capitalised	1.12
	RGTPS Total	11.03
Corporate Allocation		0.71
	Total	11.74

**DCCPP**

Added Items		Amount (In Crore)
74	Repair and Maintenance	5.35
75	Employee Cost	6.09
76	Administrative & General Expenses	2.76
Deductions		0.00
79.61	Deferred Revenue Exp. Written Off	0.00
76.104	Insurance on Fixed Assets	1.16
76.126	Tariff Fees	0.00
74.9	R & M Expense Capitalised	0.00
75.9	Employee Cost Capitalised	0.00
76.9	Admn. & Gen. Expenses Capitalised	0.00
	DCCP Total	13.05
Corporate Allocation		2.11
	Total	15.16

**CTPP**

Added Items		Amount (In Crore)
74	Repair and Maintenance	22.13
75	Employee Cost	12.92
76	Administrative & General Expenses	9.88
Deductions		0.00
79.61	Deferred Revenue Exp. Written Off	0.00
76.104	Insurance on Fixed Assets	2.81
76.126	Tariff Fees	0.00
74.9	R & M Expense Capitalised	0.00
75.9	Employee Cost Capitalised	0.00
76.9	Admn. & Gen. Expenses Capitalised	1.53
	CTPP Total	40.59
Corporate Allocation		3.20
	Total	43.79



**MAHI**

Added Items		Amount (In Crore)
74	Repair and Maintenance	2.23
75	Employee Cost	8.51
76	Administrative & General Expenses	2.77
Deductions		0.00
79.61	Deferred Revenue Exp. Written Off	0.00
76.104	Insurance on Fixed Assets	0.00
76.126	Tariff Fees	0.00
74.9	R & M Expense Capitalised	0.00
75.9	Employee Cost Capitalised	0.00
76.9	Admn. & Gen. Expenses Capitalised	0.00
	Mahi Total	13.51
Corporate Allocation		0.90
H&GP Allocation		0.95
	Total	15.35

## Annexure B: Depreciation

### KTPS (Unit 1 to 7)

S.No.	Assets Group	A/c Code	Rate of Depreciation	Gross fixed Assets				Provisions for depreciation				Net fixed Assets	
				At the beginning of the year	Additions during the year	Adjust. & deductions	At the end of the year	Cumulative upto the beginning of the year	Additions during the year	Adjust. during the year	Cumulative at the end of the year	At the beginning of the year	At the end of the year
1	Land & Land Rights	10.1xxx	Nil	3.22	0.0000	0.00	3.22	0.00	0.00	0.00	0.00	3.22	3.22
2	Building & Civil Works of Power Plants	10.2xxx	3.34	298.22	1.7892	0.02	299.99	129.27	6.79	0.00	136.07	168.95	163.92
3	Hydraulic Works	10.3xxx	5.28	17.35	0.1258	0.00	17.47	4.35	0.82	0.00	5.16	13.00	12.31
4	Other Civil Works	10.4xxx	3.34	36.42	0.4804	0.00	36.90	21.88	1.36	0.00	23.25	14.54	13.66
5	Plant & Machinery	10.5xxx	5.28	1533.61	45.1698	0.00	1578.78	515.64	86.52	0.30	601.86	1017.97	976.92
6	Lines & Cable Net work	10.6xxx	5.28	0.00	0.0000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	Vehicles	10.7xxx	6.33	1.37	0.0000	0.00	1.37	1.24	0.00	0.00	1.24	0.13	0.13
8	Furniture & Fixtures	10.8xxx	6.33	0.49	0.0000	0.00	0.49	0.36	0.01	0.00	0.37	0.14	0.12
9	Office Equipments	10.9xxx	6.33	0.72	0.0000	0.00	0.72	0.55	0.02	0.00	0.57	0.17	0.15
10	Capital Spares	11.3xxx	5.28	76.34	1.0598	0.00	77.40	68.32	0.96	0.00	69.28	8.03	8.13
TOTAL	Total			1967.75	48.63	0.02	2016.35	741.60640	96.49	0.301	837.79	1226.14	1178.56

**STPS unit (1-6)**

S.No.	Assets Group	A/c Code	Rate of Depreciation	Gross fixed Assets				Provisions for depreciation				Net fixed Assets	
				At the beginning of the year	Additions during the year	Adjust. & deductions	At the end of the year	Cumulative upto the beginning of the year	Additions during the year	Adjust. during the year	Cumulative at the end of the year	At the beginning of the year	At the end of the year
	Land & land rights	10.1xxxx	Nil	9.82	0.00	0.00	9.82	0.00	0.00		0.00	9.82	9.82
	Building & Civil works of Power plant	10.2xxxx	3.34	394.57	0.00	0.00	394.57	90.42	12.24		102.66	304.15	291.91
	Hydraulic works	10.3xxxx	5.28	114.99	0.00	0.00	114.99	51.66	6.94		58.59	63.34	56.40
	Other Civil works	10.4xxxx	3.34	67.75	0.00	0.00	67.75	19.47	2.47		21.95	48.28	45.80
	Plant & machinery	10.5xxxx	5.28	4614.27	0.00	0.00	4614.27	2095.09	252.33		2347.42	2519.18	2266.86
	Lines and Cable Networks	10.6xxxx	5.28	49.37	0.00	0.00	49.37	16.03	3.13		19.16	33.34	30.21
	Vehicles	10.7xxxx	6.33	0.90	0.00	0.00	0.90	0.80	0.00		0.80	0.10	0.10
	Furniture & fixtures	10.8xxxx	6.33	0.47	0.12	0.00	0.59	0.05	0.02		0.07	0.42	0.52
	Office Equipments	10.9xxxx	6.33	5.31	1.17	0.00	6.48	0.94	0.74		1.68	4.37	4.80
	Capital spares	11.3xxxx	5.28	15.90	0.00	0.00	15.90	2.20	1.03		3.23	13.70	12.67
	Total			5273.35	1.30		5274.64	2276.66	278.90		2555.56	2996.69	2719.08

## DCCPP

S.No.	Assets Group	A/c Code	Rate of Depreciation	Gross fixed Assets				Provisions for depreciation				Net fixed Assets	
				At the beginning of the year	Additions during the year	Adjust. & deductions	At the end of the year	Cumulative upto the beginning of the year	Additions during the year	Adjust. during the year	Cumulative at the end of the year	At the beginning of the year	At the end of the year
1	Land & land rights	10.1xx	Nil	2.53	0.27	-	2.80	0.00	0.00	0.00	0.00	2.53	2.80
2	Building & Civil works of Power plant	10.2 xx	3.34	37.85	0.40	-	38.25	6.10	1.62	0.00	7.72	30.49	30.53
3	Hydraulic works	10.3xx	5.28	14.63	0.00	-	14.63	0.77	0.77	0.00	1.54	13.09	13.09
4	Other Civil works	10.4 xx	3.34	2.80	0.00	-	2.80	2.36	0.09	0.00	2.46	0.34	0.34
5	Plant & machinery	10.5xx	5.28	988.68	0.15	-	988.83	214.80	54.30	0.00	269.10	721.68	719.73
6	Lines and Cable Networks	10.6 xx	5.28	2.37	0.03	-	2.40	0.40	0.13	0.00	0.52	1.85	1.88
7	Vehicles	10.7xx	9.5	0.12	0.00	-	0.12	0.06	0.01	0.00	0.07	0.05	0.05
8	Furniture & fixtures	10.8 xx	6.33	0.70	0.01	-	0.71	0.12	0.05	0.00	0.17	0.54	0.54
9	Office Equipments	10.9xx	6.33	0.09	0.00	-	0.09	0.03	0.01	0.00	0.03	0.06	0.06
10	Capital spares	11.3 xx	5.28	39.03	0.49	-	39.52	0.00	0.00	0.00	0.00	36.97	39.52
	Total			1088.82	1.34	-	1090.15	224.63	56.98	0.00	281.61	807.60	808.54

## RGTPS

S.No.	Assets Group	A/c Code	Rate of Depreciation	Gross fixed Assets				Provisions for depreciation				Net fixed Assets	
				At the beginning of the year	Additions during the year	Adjust. & deductions	At the end of the year	Cumulative upto the beginning of the year	Additions during the year	Adjust. during the year	Cumulative at the end of the year	At the beginning of the year	At the end of the year
	Land & Land rights	10.101-10.103	Nil	0.14	0.00	-	0.14	0.03	0.00	-	0.04	0.11	0.11
	Building & Civil works of Power Plant	10.201-10.241	3.34	31.00	0.00	-	31.00	13.30	1.24	-	14.54	17.70	16.47
	Hydraulic works	10.301-10.322	5.28	16.43	0.00	-	16.43	6.59	0.79	-	7.38	9.84	9.05
	Other Civil works	10.401-10.412	3.34	0.00	0.00	-	0.00	0.00	0.00	-	0.00	0.00	0.00
	Plant & machinery	10.501-10.59x	5.28	254.48	0.00	-	254.48	122.86	12.87	-	135.73	131.62	118.75
	Lines and Cable Networks	10.601-10.685	5.28	0.04	0.00	-	0.04	0.03	0.00	-	0.03	0.02	0.02
	Vehicles	10.71x-10.740	6.33	0.67	0.00	-	0.67	0.63	0.00	-	0.63	0.04	0.04
	Furniture & fixtures	10.81x-10.820	6.33	0.21	0.02	-	0.24	0.13	0.02	-	0.14	0.09	0.07
	Office Equipments	10.90x-10.910	6.33	0.09	0.00	-	0.09	0.08	0.00	-	0.08	0.01	0.00
	Capital spares	11.3	5.28	0.00	0.00	-		0.00	0.00	-			
	Total			303.07	0.02	-	303.09	143.64	14.92	-	158.57	159.43	144.50

**CTPP**

S.No.	Assets Group	A/c Code	Rate of Depreciation	Gross fixed Assets				Provisions for depreciation				Net fixed Assets	
				At the beginning of the year	Additions during the year	Adjust. & deductions	At the end of the year	Cumulative upto the beginning of the year	Additions during the year	Adjust. during the year	Cumulative at the end of the year	At the beginning of the year	At the end of the year
1	Land & Land Rights	10.1xxx	Nil	12.85	0.00	0.00	12.85	0.00	0	0.00	0.00	12.85	12.85
2	Building & Civil Works of Power Plants	10.2xxx	3.34	235.72	0.00	0.00	235.72	8.72	7.87	0.00	16.59	227.00	219.13
3	Hydraulic Works	10.3xxx	5.28	79.90	0.16	0.00	80.06	4.66	4.22	0.00	8.88	75.24	71.17
4	Other Civil Works	10.4xxx	3.34	56.30	1.06	0.00	57.36	2.08	1.90	0.00	3.98	54.21	53.38
5	Plant & Machinery	10.5xxx	5.28	1985.07	16.41	0.00	2001.48	117.30	105.25	0.00	222.55	1867.77	1778.93
6	Lines & Cable Net work	10.6xxx	5.28	29.20	0.00	0.00	29.20	1.68	1.54	0.00	3.22	27.52	25.98
7	Vehicles	10.7xxx	9.5	0.13	0.00	0.00	0.13	0.01	0.01	0.00	0.02	0.11	0.10
8	Furniture & Fixtures	10.8xxx	6.33	0.74	1.58	0.85	1.47	0.05	0.10	0.03	0.12	0.68	1.35
9	Office Equipments	10.9xxx	6.33	0.41	0.24	0.12	0.53	0.03	0.03	0.00	0.06	0.38	0.47
10	Capital Spares	11.3xxx	5.28	38.10	0.00	0.00	38.10	2.23	2.01	0.00	4.24	35.87	33.86
TOTAL				2438.42	19.45	0.97	2456.89	136.76	122.93	0.03	259.67	2301.65	2197.23

**MAHI**

S.No.	Assets Group	A/c Code	Rate of Depreciation	Gross fixed Assets				Provisions for depreciation				Net fixed Assets	
				At the beginning of the year	Additions during the year	Adjust. & deductions	At the end of the year	Cumulative upto the beginning of the year	Additions during the year	Adjust. during the year	Cumulative at the end of the year	At the beginning of the year	At the end of the year
1	Land & land rights	10.1xxxx	Nil	0.68	0.00	0.00	0.68	0.05	0.00		0.05	0.63	0.63
2	Building & Civil works of Power plant	10.2xxxx	3.34	29.78	0.00	0.00	29.78	21.31	0.58		21.89	8.47	7.89
3	Hydraulic works	10.3xxxx	5.28	94.67	0.00	0.00	94.67	61.16	2.54		63.70	33.51	30.96
4	Other Civil works	10.4xxxx	3.34	0.88	0.00	0.00	0.88	0.79	0.00		0.79	0.09	0.09
5	Plant & machinery	10.5xxxx	5.28	54.99	0.00	0.00	54.99	39.04	1.07		40.11	15.95	14.88
6	Lines and Cable Networks	10.6xxxx	5.28	20.59	0.00	0.00	20.59	18.53	0.00		18.53	2.06	2.06
7	Vehicles	10.7xxxx	6.33	0.38	0.00	0.00	0.38	0.34	0.00		0.34	0.04	0.04
8	Furniture & fixtures	10.8xxxx	6.33	0.11	0.00	0.00	0.11	0.06	0.00		0.07	0.05	0.04
9	Office Equipments	10.9xxxx	6.33	0.03	0.00	0.00	0.04	0.01	0.00		0.01	0.02	0.02
10	Capital spares	11.3xxxx	5.28	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00
	Total			202.12	0.00	0.00	202.12	141.30	4.20	0.00	145.50	60.82	56.62

**Annexure C: Loan Repayment & Interest & Finance Charge Liability Statement**

**KTPS (Unit 1-7)**

Sr. No.	Source	Opening Balance	Receipts during the year	Repayment During the Year	Closing Balance	Average Rate of Interest	Interest Paid	
1	Term Loan	694	0	102	592	11.16%	71.75	
2	Transitional Loan	155	0	13	142	12.32%	18.28	
	Total	849	0	115	734		90.03	
	Interest During Construction							0
	Grand Total						90.03	

**STPS**

Sr. No.	Source	Opening Balance	Receipts during the year	Repayment During the Year	Closing Balance	Average Rate of Interest	Interest Paid	
1	Term Loan	1194	0	216	977	11.61%	125.96	
2	Transitional Loan	521	0	153	369	12.79%	56.93	
	Total	1715	0	369	1346	0	183	
	Interest During Construction							0
	Grand Total						182.90	

**RGTPS**

Sr.01 No.	Source	Opening Balance	Receipts during the year	Repayment During the Year	Closing Balance	Average Rate of Interest	Interest Paid	
1	Term Loan	477	44	12	510	12.69%	62.61	
2	Transitional Loan	25	0	5	20	12.50%	2.84	
	Total	502	44	16	530		65.45	
	Interest During Construction							61.25
	Grand Total						4.21	



**DCCPP**

Sr. No.	Source	Opening Balance	Receipts during the year	Repayment During the Year	Closing Balance	Average Rate of Interest	Interest Paid	
1	Term Loan	480	0	64	416	12.59%	56.42	
2	Transitional Loan	49	0	2	47	12.69%	6.14	
	Total	530	0	66	463	0	63	
	Interest During Construction							0.00
	Grand Total						62.56	

**CTPP (Unit 1&2)**

Sr. No.	Source	Opening Balance	Receipts during the year	Repayment During the Year	Closing Balance	Average Rate of Interest	Interest Paid	
1	Term Loan	1576	0	126	1450	12.33%	382.15	
							0.00	
	Total	1576	0	126	1450		382.15	
	Interest During Construction							195.61
	Grand Total						186.54	

## Annexure D: Working Capital Loan Requirement Calculation

### KTPS

KTPS			(Rs. In Crore)
Sl. No.	Particulars	Norms considered	2012-13
1	Coal Cost ( Non pit head)	1½ Month	304.73
2	Coal Cost ( Pit head)	Half month	NA
3	Cost of Gas	Half month	NA
4	Sec.Fuel Oil	Two month	2.57
5	Liquid Fuel Stock	Half month	NA
6	O & M expenses	One month	1.30
7	Maintenance Spares	20% of O&M	3.12
8	Receivables	1½ Month	375.96
9	Working capital Loan Requirement		687.69
10	Rate of Interest		9.18%
11	Interest on Working Capital		63.16

### STPS

Calculation of Interest on Working Capital Loan 2012-13			
STPS			(Rs. In Crore)
Sl. No.	Particulars	Norms considered	2012-13
1	Coal Cost ( Non pit head)	1½ Month	401.88
2	Coal Cost ( Pit head)	Half month	NA
3	Cost of Gas	Half month	NA
4	Sec.Fuel Oil	Two month	8.62
5	Liquid Fuel Stock	Half month	NA
6	O & M expenses	One month	12.23
7	Maintenance Spares	20% of O&M	29.34
8	Receivables	1½ Month	500.88
9	Working capital Loan Requirement		952.95
10	Rate of Interest		8.02%
11	Interest on Working Capital		76.40

**RGTPS**

## RAJASTHAN RAJYA VIDYUT UTPADAN NIGAM LIMITED

## Calculation of Interest on Working Capital Loan 2012-13

			(Rs. In Crore)
Sl. No.	Particulars	Norms considered	2012-13
1	Coal Cost ( Non pit head)	1½ Month	NA
2	Coal Cost ( Pit head)	Half month	NA
3	Cost of Gas	Half month	9.66
4	Sec.Fuel Oil	Half month	0.01
5	Liquid Fuel Stock	Half month	NA
6	O & M expenses	One month	0.98
7	Maintenance Spares	30% of O&M	3.52
8	Receivables	1½ Month	33.81
9	Working capital Loan Requirement		47.98
10	Rate of Interest		11.73%
11	Interest on Working Capital		5.63

**DCCPP**

## RAJASTHAN RAJYA VIDYUT UTPADAN NIGAM LIMITED

## Calculation of Interest on Working Capital Loan 2012-13

Sl. No.	Particulars	Norms considered	2012-13
1	Coal Cost ( Non pit head)	1½ Month	NA
2	Coal Cost ( Pit head)	Half month	NA
3	Cost of Gas	Half month	16.78
4	Sec.Fuel Oil	Two month	0.00
5	Liquid Fuel Stock	Half month	NA
6	O & M expenses	One month	1.26
7	Maintenance Spares	30% of O&M	4.55
8	Receivables	1½ Month	69.20
9	Working capital Loan Requirement		91.79
10	Rate of Interest		18.31%
11	Interest on Working Capital		16.81

**CTPP**

## Calculation of Interest on Working Capital Loan 2012-13

KTPS				(Rs. In Crore)
Sl. No.	Particulars	Norms considered	2012-13	
1	Coal Cost ( Non pit head)	1½ Month	60.56	
2	Coal Cost ( Pit head)	Half month	NA	
3	Cost of Gas	Half month	NA	
4	Sec.Fuel Oil	Two month	4.41	
5	Liquid Fuel Stock	Half month	NA	
6	O & M expenses	One month	3.65	
7	Maintenance Spares	20% of O&M	8.76	
8	Receivables	1½ Month	136.09	
9	Working capital Loan Requirement		213.47	
10	Rate of Interest		11.93%	
11	Interest on Working Capital		25.47	

**MAHI**

RAJASTHAN RAJYA VIDYUT UTPADAN NIGAM LIMITED			
Calculation of Interest on Working Capital Loan 2012-13			
Sl. No.	Particulars	Norms considered	(Rs. In Crore) 2012-13
1	Coal Cost ( Non pit head)	1½ Month	NA
2	Coal Cost ( Pit head)	Half month	NA
3	Cost of Gas	Half month	NA
4	Sec.Fuel Oil	Two month	NA
5	Liquid Fuel Stock	Half month	NA
6	O & M expenses	One month	1.20
7	Maintenance Spares	15% of O&M	2.16
8	Receivables	1½ Month	3.81
9	Working capital Loan Requirement		7.17
10	Rate of Interest		
11	Interest on Working Capital		7.13

**Annexure E: WCL Interest Allocation**

Interest on WCL including transitional loan (Item 78.7xx)	278.17
Interest on transitional loan	84.61
Interest on WCL	193.56
WC Guarantee Commission	8.61
Total	202.17
Less: Giral unit 2 & MMH	7.58
Net Inte-rest on Working capital	194.59

<b>Power Station</b>	<b>WCL Requirement</b>	<b>Ratio</b>	<b>WCL Interest</b>
KTPS	1240	31.24%	63.16
STPS	1500	37.79%	76.40
RGTPS	110.5	2.78%	5.63
DCCPP	330	8.31%	16.81
Mahi	140	3.53%	7.13
MMH	23.85	0.60%	1.21
CTPP	500	12.60%	25.47
Giral	125	3.15%	6.37
Total	3969.35	3969.35	202.17

### Annexure H: Head Office Expense Break-up & Allocation

Fixed Charges		Cash	W&M	HO	Total
1	Operation & Maintenance Expenses	20.47	0.01	4.89	25.38
2	Depreciation	0.09	0.00	0.24	0.33
3	Prior Period Expenses	0.50	0.91	3.38	4.79

### O&M Expense Allocation

Power Station	Capacity (MW)	Ratio	Amount
KTPS	1240	31%	7.93
STPS	1500	38%	9.59
RGTP	110.5	3%	0.71
DCCPP	330	8%	2.11
Mahi	140	4%	0.90
MMH	23.85	1%	0.15
CTPP	500	13%	3.20
Giral	125	3%	0.80
Total	3969.35	100%	25.38

### Prior Period Expense Allocation

Power Station	Capacity (MW)	Ratio	Amount (Rs. In Cr)
KTPS	1240	0.31	0.47
STPS	1500	0.38	0.57
RGTPS	110.5	0.03	0.04
DCCPP	330	0.08	0.13
Mahi	140	0.04	0.05
MMH	23.85	0.01	0.01
CTPP	500	0.13	0.19
Giral 2	125	0.03	0.05
Total	3969.35	1.00	1.51



**Annexure J: Plant-wise Prior Period Expense/Income Calculation****KTPS**

Prior Period Expense	Amount (In Cores)
KTPS	-8.60
Corporate Office	0.47
Total	-8.13

**STPS**

Prior Period Expense	Amount (In Cores)
STPS	18.26
Corporate Office	0.57
Total	18.83

**RGTPS**

Prior Period Expense	Amount (In Cores)
RGTPS	0.10
Corporate Office	0.04
Total	0.14

**DCCPP**

Prior Period Expense	Amount (In Cores)
DCCP	8.00
Corporate Office	0.13
Total	8.12

**MAHI**

Prior Period Expense	Amount (In Cores)
Mahi	0.02
Corporate Office	0.05
Total	0.07

**CTPP**

Prior Period Expense	Amount (In Cores)
CTPP	-1.49
Corporate Office	0.19
Total	-1.30

RAJASTHAN RAJYA VIDYUT UTPADAN NIGAM LIMITED

**PROFIT AND LOSS ACCOUNT**

**FOR THE YEAR ENDED 31st MARCH, 2013**

(Amount in Rs.)

Particulars	Schedule Number	For the year ended 31st March, 2013	For the year ended 31st March, 2012
<b>INCOME</b>			
Revenue from Sale of Power	16	87814451437	82567159189
Revenue Subsidies and Grants	17	294810	327793
Other Income	18	451958490	742659133
<b>Sub Total</b>		<b>88266704737</b>	<b>83310146115</b>
<b>EXPENDITURE</b>			
Generation of Power	19	71791820221	69277600518
Repairs and Maintenance	20	2218855510	1722938844
Employees Costs	21	1859912549	1631824435
Administration and Other Expenses	22	627849719	671545388
Less: Incidental expenses during construction transferred to capital work in progress	23	358651082	808922243
Depreciation	24	6163955859	5774674534
<b>Sub Total</b>		<b>82303742777</b>	<b>78269661476</b>
Profit before Interest & Taxes		5962961960	5040484640
Net Interest Finance Charges & lease Rental	25	7963926372	8457484947
Extraordinary Items	26	0	0
Profit before Tax		<b>-2000964413</b>	<b>-3417000307</b>
Add/Less : Prior period charges or credits	27	148812080	114423226
<b>Net Profit / Loss for the year</b>		<b>-1852152332</b>	<b>-3302577081</b>
Provision for taxation		0	0

<b>Net Profit / Loss after tax for the year</b>	<b>-1852152332</b>	<b>-3302577081</b>
Balance brought forward	-8791764392	-5489187311
<b>Balance carried over to Balance Sheet</b>	<b>-10643916724</b>	<b>-8791764392</b>