

**Petition for Approval of Final Capital Cost
and
ARR & Tariff For FY 2010-11 to FY 2013-14
For
Giral Lignite Thermal Power Project (GLTPP)
Unit - 2**

by

Rajasthan Rajya Vidyut Utpadan Nigam Ltd

Submitted to

Rajasthan Electricity Regulatory Commission

Jaipur

November 2014

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DEFINITIONS

Act	The Electricity Act, 2003
Application	This Petition for Approval of final capital cost and ARR/ Tariff for FY-2010-11 to FY 2013-14 for GLTPP Unit-2 of Rajasthan Rajya Vidyut Utpadan Nigam Limited, Jaipur
Auxiliary Consumption (Aux. Con.)	Auxiliary Consumption in relation to a period means the quantum of energy consumed by auxiliary equipment of the generating station and transformer losses within the generating station, and shall be expressed as a percentage of the sum of gross energy generated at the generator terminals of all the units of the generating station
Availability	Availability shall have the same meaning as defined in Section 2 (7) of the RERC Tariff Regulations 2009.
Distribution Company / Discoms	Discoms or Distribution Company shall mean a company engaged primarily in the business of distribution & supply of electricity in its area of supply including Jaipur Vidyut Vitran Nigam Ltd. (JVVN), Ajmer Vidyut Vitran Nigam Ltd. (AVVN) and Jodhpur Vidyut Vitran Nigam Ltd. (JdVVN).
Gross Calorific Value (GCV)	Gross Calorific Value in relation to a thermal power generating station means the heat produced in kCal by complete combustion of one kilogram of solid fuel or one litre of liquid fuel or one standard cubic meter of gaseous fuel, as the case may be.
Regulation	The Rajasthan Electricity Regulatory Commission (Terms and Conditions for Determination of Tariff) Regulations, 2009 notified by RERC on Jan- 23, 2009
State	The State of Rajasthan.
Gross Station Heat Rate	Station Heat Rate (SHR) means the heat energy input in kCal required to generate one unit (kWh) of electrical energy at generator terminals.
Unit	Unit in relation to a generating station means electric generator, its prime mover and auxiliaries and in relation to a combined cycle thermal power generating station includes combustion turbine – generators, associated waste heat recovery boilers, connected steam turbine-generator and auxiliaries

ABBREVIATIONS

ARR	Aggregate Revenue Requirement
Ajmer Discom	Ajmer Vidyut Vitran Nigam Limited
CSR	Corporate Social Responsibility
FY	Financial Year
FY – 11	Financial Year 2010-2011 (20 days)
FY – 12	Financial Year 2011-2012
FY – 13	Financial Year 2012-2013
FY – 14	Financial Year 2013-2014
GCV	Gross Calorific Value
GFA	Gross Fixed Assets
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
Rs.	Indian Rupees
SHR	Station Heat Rate
Transfer Scheme	The Rajasthan Power Sector Reforms Transfer Scheme, 2000

A1: BACKGROUND

- 1.1 Rajasthan Rajya Vidyut Utpadan Nigam Ltd (RVUN) was incorporated under the Companies Act 1956, as one of the five successor companies of erstwhile Rajasthan State Electricity Board (RSEB) to take over the electricity generation business in the state of Rajasthan. The existing power stations and those under commissioning in the state sector were transferred to RVUN as per the Rajasthan Power Sector Reforms Transfer Scheme, 2000 notified by State Government provisionally on 19th July 2000 and finally on 18th January 2002.
- 1.2 From 1st April 2004 onwards, RVPN is no longer responsible for the bulk purchase of power in Rajasthan. The capacity allocated to RVPN from RVUN generating stations has been reallocated to the three Discoms (Jaipur, Ajmer and Jodhpur) in the ratio of 39:29:32(from October 2011) or as modified by competent authority from time to time. RVUN has entered into Long Term Power Supply-Purchase Agreements (PPA) in respect of existing and future power projects for 25 Years with the three Discoms on 23.06.04, 30.04.05, 28.09.06, 07.06.2007, 18.05.10 and further supplementary PPA was signed on dt 15.12.10 which includes GLTPP Unit 2 (125MW).
- 1.3 RVUN filed petition of GLTPP unit 2 for Annual Revenue Requirement (ARR) and tariff for FY 2010-11 (20 days) on dated 15.04.2011 and the supplementary petition on 09.08.2011 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.
- 1.4 The Hon'ble Commission awarded its order dated 24.02.2014 on the aforesaid petition and determined ARR & tariff for Giral unit 2 for the year 2010-11 (20 days) on the basis of provisional capital cost.
- 1.5 In the order dated 24.02.2014, the Hon'ble Commission has directed the RVUN to file a separate petition for determination of final capital cost and tariff for FY 2010-11 along with the information indicated in that order based on actual capital expenditure incurred up to the date of commercial operation duly certified by Statutory Auditors based on annual audited accounts in accordance with the provisions of Regulation 44(5) of RERC (Terms and Conditions of Tariff) Regulations, 2009.
- 1.6 The GLTPP Unit 2 was declared on commercial operation w.e.f 12.03.2011. Now on finalization of capital cost, the petition for 125 MW Giral Lignite Thermal Power Station Unit 2 has been prepared and is submitted to the Hon'ble Commission for approval of final capital cost and tariff for 2010-11 (from 12.03.2011 to 31.3.2011) upto FY 2013-14 in accordance with provision of RERC tariff regulation 2009.
- 1.7 The annual reports and accounts of the company for FY 2010-11 have been now finalized, audited by the Statuary Auditors on 15.09.2011. RVUN is submitting a copy of audited annual account of FY 2010-11 with this petition (**Annexure A**).

A2: BRIEF HISTORY

- 2.1 The State Government vide letter dated 11.04.2005 enclosed as **annexure B** accorded "Administrative" & "Financial" approval for setting up of 125 MW Unit – II Giral Lignite Thermal Power Station having total project of Rs. 618 Crores with equity support of Rs. 185.0 Crores, DPR is enclosed as **annexure C**. This project cost was revised to Rs. 650.0 Crores for which the approval of the State Govt. was accorded on 24.06.2008. The project cost was once again revised to Rs. 750.0 Crores vide GoR approval dated 11.08.2009 enclosed as **annexure D**.
- 2.2 Power Finance Corp. (PFC) vide letter dated 29.05.2006 sanctioned a loan of Rs. 441.00 Crores to RVUN for this project. PFC vide letter dt. 12.2.2009 sanctioned additional loan of RS.124.00 Crores to RVUN for this project enclosed as **annexure E**. Also Rs. 185 Crore has been arranged as government equity which is sufficient to cover 20% equity.
- 2.1 BoD in its 198th meeting held on 14th December 2011 has approved enhanced cost for GLTPP Unit-2 from Rs. 750 crore to 901 crore enclosed as **annexure F**. The detail break up of enhanced project cost of Rs. 901 crore is as follows:

Table 1: Capital cost as per BoD dated 14.12.2011(Rs in crore)

Sr. No	Particular	Cost as per Revised BOD
1	Preliminary	
2	BTG	364.8
3	Mechanical	
4	Electrical	
5	Civil	281.72
6	C&I	14.54
7	Water Supply System including reservoir	8.83
8	Misc Expenses including L/L Augmentation work	21.5
	Total	691.39
9	Pre Operative Expenses	36.59
10	IDC	173.94
	Total	210.53
11	Grant Total	901.92

- 2.1 RERC in its order dated 24.02.2014 has directed RVUN to bifurcate the common assets of Rs.30.15 of GLTPP Unit-2 and GLPL Unit-1. Accordingly the revised capital cost with bifurcation of common assets is submitted to RERC.

2.2 As per general accounting practice, the expenditure incurred till COD of a unit are booked under capital expenditure head. However, while maintaining the books of accounts of Giral Unit 2, instead of booking of expenditure incurred from 1.04.2009 to 12.03.2011 to capital expenditure head, RVUN has charged the expenditure incurred from 1.04.2009 to 12.03.2011 (COD) to profit and losses account. The expenditure of Rs. 140.73 crore charged to profit and losses account prior to COD has been added back to the capital cost.

2.3 The COD of GLTPP-2 has been declared on 12.03.2011 enclosed as **annexure G** and accordingly, the final enhanced project cost has been worked out as Rs. 915.56 crores considering IDC upto COD.

Table 2: Final Capital cost Giral Unit 2 (Rs. in crore)

Sr. No.	Particulars	Cost as on COD as per Balance sheet	Add/Less Cost Allocation as per Commission Order Dated: 24.02.2014	Add Capital Cost charged to P&L Loss Account prior to CoD	Final Capital cost
1					
1	Preliminary	0.07	0.41	0	0.48
2	BTG	364.8	0	16.75	381.55
3	Mechanical	116.79	7.61	5.36	129.76
4	Electrical	62	1.12	2.85	65.97
5	Civil	67.04	6.91	3.08	77.03
6	C&I	14.54	0	0.67	15.21
7	Water Supply System including reservoir	10.87	24.89	0.5	36.26
8	Misc Expenses including L/L Augmentation work	32.19	-10.79	1.48	22.88
	Total	668.29	30.15	30.69	729.13
9	Pre Operative Expenses	13.69	0		13.69
10	IDC	62.7	0	110.04	172.74
	Total	76.39	0	110.04	186.43
	Grant Total	744.68	30.15	140.73	915.56

2.4 The package wise / item wise break-up of the enhanced project cost as per DPR, BOD and audited accounts is given below –

Table 3 : Break-Up of Capital Cost (Rs in crore)

Sr. No	Particular	Cost as per DPR	Cost as per Revised BOD-137 meeting dated 13.05.2008	Cost as per Revised BOD -2	Cost as per Revised BOD -3	Final Capital cost
1	Preliminary	1				0.48
2	BTG	310	341	364.8	364.8	381.55
3	Mechanical	116.5	257.7	288.51	281.72	129.76
4	Electrical	62				65.97
5	Civil	65.3				77.03
6	C&I	0		13.85	14.54	15.21
7	Water Supply System including reservoir				8.83	36.26
8	Misc Expenses including L/L Augmentation work			21.5	21.5	22.88
	Total	554.80	598.70	688.66	691.39	729.13
9	Pre Operative Expenses	9.64	5.75	7.43	36.59	13.69
10	IDC	53.56	45.44	54	173.94	172.74
	Total	63.2	51.19	61.43	210.53	186.43
11	Grant Total	618.00	649.89	750.09	901.92	915.56

2.5 The main reason of increase in project cost from Rs. 750 Crore to Rs. 915.56 Crore was delay in the commissioning of the unit leading to an increase in IDC and financing cost, pre operative and water supply system.

2.6 Since the capital cost of project has increased due to delay in commissioning by contractor M/s BHEL and BoP contractor due to various reason. For this delay in completion schedules, Liquidation damage amounting to Rs. 14.36 Crores from BHEL's bill and Rs. 25.07 Crores from BoP contractor has been retained in form of cash or by the way of bank guarantee.

2.7 With the above details, the fixed charges and variable charges have been calculated and accordingly, the Tariff petition for FY 2010-14 is being submitted to the Hon'ble Commission.

A3: GENERATION FORECAST

3.1 The installed capacity of GLTPP Unit#2 is 125 MW. The GLTPP Unit#2 has started its commercial operation w.e.f. 12.3.2011. The estimated figures of Gross generation, PLF & net energy sale to three Discoms from GLTPP Unit # 2 station of RVUN for FY-11 to FY-14 are as shown in table below:

Table 4: Gross generation, PLF & Ex-bus energy sale from GLTPP Unit-2

S. No.	Particulars	Units	2010-11	2011-12	2012-13	2013-14
1	2	3	4	5	6	7
2	Operational Parameters Thermal	-				
2.1	Total Capacity	MW	125	125	125	125
2.2	Plant Load Factor	%	70.00%	70.13%	72.63%	75.13%
2.3	Gross Generation	MU	42.00	770.03	795.30	822.67
2.4	Auxiliary Energy Consumption	%	11.50%	11.50%	11.50%	11.50%
2.5	Auxiliary Energy Consumption	MU	4.83	88.55	91.46	94.61
2.6	Net Generation	MU	37.17	681.47	703.84	728.07

3.2 The fixed cost elements as detailed hereunder for GLTPP Unit-2 for the period FY11 to FY14 are as below.

FIXED CHARGES

- Depreciation
- Interest on Loans
- Interest on Working Capital
- Operation & Maintenance Expenses
- Recovery of ARR & Tariff Petition Fees
- Insurance Charges

A4: GLTPP UNIT-2 FIXED CHARGE

4.1 The details of various components of the fixed cost areas under:

Depreciation:-

4.2 As per Audited account of FY 2010-11, the Gross Fixed Assets (GFA) as on 12.03.2011 (COD) are Rs. 744.68 crore. Since, Depreciation does not have any impact on GFA, the GFA as on 31.03.2011 would remain same as Rs 744.68 crore, which is also reflected in audited accounts of FY 2010-11.

4.3 RVUN would like to state that the Giral unit 2 has achieved COD on 12.03.2011, as per general accounting practice, the expenditure incurred till COD of a unit are booked under capital expenditure head. However, while maintaining the books of accounts of Giral Unit 2, instead of booking of expenditure incurred from 1.04.2009 to 12.03.2011 to capital expenditure head, RVUN has charged the expenditure incurred from 1.04.2009 to 12.03.2011 (COD) to profit and losses account.

- 4.4 With regard to above facts of Giral unit 2, RVUN request the Hon'ble Commission to consider the expenditure charged to profit and loss account from 1.04.2009 to 12.03.2011 of Giral unit 2 to be added to the Gross Fixed Assets (GFA) of Giral unit 2. Non addition of above cost to GFA would result into complete loss to RVUN, since the RVUN is not entitle to file any ARR or True up petition for period from 1.04.2009 to 11.03.2011 in respect of Giral unit 2 i.e. before COD date.
- 4.5 The above information of GFA as on 12.03.2011 and expenditure charged to profit and loss account from 1.04.2009 to 11.03.2011, which are also reflected in audited books of accounts of respective years are given in below table. Further with regard to directive given by Hon'ble Commission at para 149 of ARR & Tariff order dated 24.02.2014 of FY 2010-11 (20 days), the information of actual capital expenditure upto COD i.e. 12.03.2011 is given in table below.
- 4.6 Further, considering the Hon'ble Commission order dated 24.02.2014, the Hon'ble Commission has approved the common expenditure among unit 1 & 2. Due to allocation of common expenditure to unit 1&2, the capital cost of Unit 2 has been increase by Rs. 30.14 crore and the capital cost of unit 1 has been reduced by same amount. The above cost of Rs. 30.14 crore shall not be reflected in FY 2010-11 accounts, as the order of the Hon'ble Commission has been passed on dated 24.02.2014.

Table 5: Capital Cost of Giral unit 2

Particular	Rs in Crore
Capital cost as on COD date i.e. 12.03.2011 (Annexure H)	744.68
Add: Expenditure charged to Profit and Loss Account from 1.04.2010 to 11.03.2011 (Annexure I)	71.41
Add: Expenditure charged to Profit and Loss Account from 1.04.2009 to 31.03.2010 (Annexure J)	69.32
Total Capital cost for Giral Unit 2 upto 12.03.2011	885.42
Add: Capital cost due common cost allocation	30.14
Final Capital Cost of Giral Unit 2	915.56

- 4.7 Depreciation of GLTPP Unit-2, for period FY11 to FY14 has been calculated as directed by the clause No.23 of RERC Tariff Regulations 2009. Estimated figures of depreciation for period FY 2010-11 to 2013-14 are summarised in Table below.

Table 6: Depreciation (Rs. in Crore)

Station	FY 10-11	FY 11-12	FY 12-13	FY 13-14
GLTPP Unit-2	2.65	48.29	48.29	48.29

Interest on Loans:-

- 4.1 The loan-wise interest expenses have been worked-out and taken as part of fixed cost. The loan repayment amount for term loans has been taken equal to the depreciation figure envisaged for FY 2010-11 to 2013-14.

4.2 Estimated figures for interest on term loan for the period under review FY 2010-11 to FY 2013-14 are summarised in Table below:

Table 7: Interest on Loans (Rs. in Crore)

Station	FY 10-11	FY 11-12	FY 12-13	FY 13-14
GLTPP Unit-2	4.99	87.97	81.93	75.90

Interest on working Capital

4.3 The requirement of working capital loan has been computed on the norms defined under clause No.49 of RERC Tariff regulation 2009 with envisaged cost figures for the respective years. The rate of interest on WCL has taken equal to the short-term Prime Lending Rate of State Bank of India as on April 1 of the relevant year up 30 August 2012 and the 250 basis points higher than the average Base Rate of State Bank of India prevalent during first six months of the previous year as per fifth amendment made in regulation 28 of RERC regulation 2009 from 31 August 2012.

4.4 Estimated figures for the period FY 2010-11 to FY 2013-14 are summarised in Table below:

Table 8: Interest on working Capital (Rs. in Crore)

Station	FY 10-11	FY 11-12	FY 12-13	FY 13-14
GLTPP Unit-2	0.01	5.60	5.79	5.75

Operation & Maintenance Expenses

4.5 The Operation & Maintenance Expenses have been computed as per the norms prescribed under new Regulation 48 of RERC Regulation 2009. Additional O&M expense for Water pipe lines >50 Km allowed as per RERC norm is also charged since the Water pipe lines are greater than 50km for the project. Additional O&M expense works out to be Rs. 0.11 crore, Rs.2.14 crore, Rs. 2.35 crores and Rs. 2.59 Crores for For FY 2010-11, FY 2011-12, 2012-13 and 2013-14 respectively.

4.6 Estimated figures for the period FY 2010-11 to FY 2013-14 are summarised in Table below.

Table 9: O & M Expenses (Rs. in Crore)

Station	FY 10-11	FY 11-12	FY 12-13	FY 13-14
GLTPP Unit-2	1.27	24.49	25.99	27.57

Recovery of ARR & Tariff Petition Fees

- 4.7 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. However, RVUN is filing the ARR & tariff petition for the second time, therefore, the fee for filing the petition has been claimed as twice the normal fee. The Commission may consider and allow the same.
- 4.8 The ARR & Tariff Petition Fees for FY 2010-14 and FY 2013-14 are summarised in Table below.

Table 10: Recovery of ARR & Tariff Petition Fees (Rs. in Crore)

Station	FY 10-11	FY 11-12	FY 12-13	FY 13-14
GLTPP Unit-2	0.13	0.13	0.13	0.13

Insurance Charges

- 4.9 The insurance charges can be claimed as per norms defined under clause No.27 of RERC Tariff regulation 2009 which allows actual insurance charges or provision for contingency reserve up to 0.25% to 0.50% of approved capital cost considered for O&M expenses. However, RVUN is claiming the insurance charges for GLTPP Unit-2 for the year 2012-13 to 2013-14 based on the estimates of actual insurance charges paid in preceding year(with an increment of 5% Year on Year), the details are shown in the table below.

Table 11: Insurance Charges (Rs. in Crore)

Station	FY 10-11	FY 11-12	FY 12-13	FY 13-14
GLTPP Unit-2	0.04	0.80	0.84	0.88

Non-Tariff Income

- 4.10 The following are the main head of accounts of Non tariff income:
- Sale of Scrap
 - Interest on FD/ Staff Loans
 - Miscellaneous receipts (rebates etc)
- 4.11 Estimated figures of Non Tariff Income for the Period FY 2010-11 to FY 2013-14 are summarised in Table below.

Table 12: Non-Tariff Income (Rs. in Crore)

Station	FY 10-11	FY 11-12	FY 12-13	FY 13-14
GLTPP Unit-2	0.01	0.21	0.22	0.23

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

A5: GLTPP UNIT-2 ESTIMATED CAPACITY CHARGES (FIXED)

5.1 The net fixed charges are computed for FY 2010-11 to FY 2013-14 in table below

Table 13: Net Capacity Charges (Rs. in Crore)

S.No	Particulars	2010-11	2011-12	2012-13	2013-14
1	2	3	4	5	6
A	Fixed Charge				
1	O & M Expenses	1.27	24.49	25.99	27.57
2	Depreciation	2.65	48.29	48.29	48.29
3	Interest on Term Loans & Fin. Charges	4.99	87.97	81.93	75.90
4	Interest on Working Capital Loans	0.01	5.60	5.79	5.75
5	Recovery of ARR & Tariff Petition Fees	0.13	0.13	0.13	0.13
6	Insurance Charges	0.04	0.80	0.84	0.88
7	Total Fixed Charge	9.09	167.28	162.97	158.52
8	Less: Non-Tariff Income	0.01	0.21	0.22	0.23
9	Net Fixed Charge	9.08	167.07	162.75	158.29

A6: VARIABLE CHARGES

- 6.1 The Tariff Regulations, 2009 has allowed Station Heat Rate (SHR) in respect of Giral Lignite Thermal Power Station Unit – 2 works to be 2830.53 kcal/kWh Aux. Consumption is considered as 11.5 % as allowed for Lignite based generating station with CFBC technology.
- 6.2 The norms of operation as allowed by RERC is 70% for 1st Year of operation & subsequent increase of 2.5% for next four years of operation i.e. 80% for 5th year & onwards of operation. Accordingly, the PLF for FY 2010-11 has been considered as 70% (12.03.2011 to 31.03.2011); 70.13% for FY 2011-12, weighted PLF for FY 2012-13 works out to be 72.63% (considering 72.5% for 01.04.2011 to 11.03.2012 & 75 % for 12.03.2012 to 31.03.2012). Accordingly, the weighted PLF for FY 2013-14 is 75.13%
- 6.3 For estimates of FY 2010-11 to FY 2013-14, the average actual Gross calorific value of the lignite and Oil have been calculated for respective year. The price of lignite, Lime and Oil for FY 2010-11 to 2013-14 has been calculated on the basis of receipts of three months during June, July & August of respective year as per Commission's formats. The details are as shown in the table below.
- 6.4 The overall estimated figures of variable Cost for the period under consideration, are summarised in Table below.

Table 14: Variable Cost GLTPP (Unit#2)

Particulars	Units	2010-11	2011-12	2012-13	2013-14
Total Capacity	MW	125	125	125	125
Availability	%	70.00%	70.13%	72.63%	75.13%
PLF	%	70.00%	70.13%	72.63%	75.13%
Gross Generation	MU	42.00	770.03	795.30	822.67
Auxiliary Energy Consumption	%	11.50%	11.50%	11.50%	11.50%
Auxiliary Energy Consumption	MU	4.83	88.55	91.46	94.61
Net Generation	MU	37.17	681.47	703.84	728.07
Heat Rate	kcal/kwh	2830.53	2830.53	2830.53	2830.53
Fuel Parameters					
Calorific Value for Different Fuels					
Fuel 1(LDO)	kcal/ltr	10600	10600	10600	10600
Fuel 3(Lignite COAL)	kcal/kg	3002	3033	2994	3026
Landed Fuel Price for different fuels					
Fuel 1(LDO)	Rs./KL	45400	56457	63460	67000
Fuel 3(Lignite COAL)	Rs./MT	753.44	796.12	825.00	905.00
Fuel 4 (LIME)	Rs./MT	611	611	611	611
Specific Fuel Consumption					
Fuel 1(LDO)	ml/kwh	3.00	3.00	3.00	3.00
Fuel 3(Lignite COAL)	Kg/kwh	0.93	0.92	0.93	0.92
Fuel 4 (LIME)	Kg/kwh	0.26	0.26	0.26	0.26
Total Fuel Consumption					
Fuel 1(LDO)	KL	126.00	2310.08	2385.90	2468.02
Fuel 3(Lignite COAL)	MT	39156.09	710549.76	743428.32	760885.51
Fuel 4 (LIME)	MT	10963.71	198953.93	208159.93	213047.94
Total Fuel Cost					
Fuel 1(LDO)	Rs Crore	0.57	13.04	15.14	16.54
Fuel 3(Lignite COAL)	Rs Crore	2.95	56.57	61.33	68.86
Fuel 4 (LIME)	Rs Crore	0.67	12.16	12.72	13.02
Total Fuel Cost	Rs Crore	4.19	81.77	89.19	98.41
Cost of Generation per unit	Rs/kWh	1.00	1.06	1.12	1.20
Energy Charges per unit sent out	Rs/kWh	1.13	1.20	1.27	1.35

A7: ESTIMATED ARR

7.1 The recovery of ARR proposed for GLTPP Unit-2 is summarised in table below

Table 15: ARR GLTPP Unit-2 (Rs. in Crores)

Parameter	FY 2010-11	FY 2011-12	FY 12-13	FY 13-14
Capacity(fixed) Charges	9.08	167.07	162.75	158.29
Variable Cost	4.19	81.77	89.19	98.41

Aggregate Revenue Requirement	13.27	248.84	251.94	256.70
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A8: ESTIMATED TARIFF FOR FY 2010-11 TO 2013-14

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

Table 16: Tariff for FY 2010-11 to 2013-14

Parameter	FY 2010-11	FY 2011-12	FY 12-13	FY 13-14
Ex-Bus Generation (MU)	37.17	681.47	703.84	728.07
Capacity(fixed) Charges (Rs in Cr)	9.08	167.07	162.75	158.29
Variable Cost (Rs in Cr)	4.19	81.77	89.19	98.41
Rate of Fixed Charge(Rs/kwh)	2.442	2.452	2.312	2.174
Rate of Variable Charge(Rs/kwh)	1.128	1.200	1.267	1.352
Rate of Sale of Energy (Rs/kwh)	3.570	3.651	3.579	3.526

A9: FUEL COST ADJUSTMENT FORMULA

9.1 As per RERC Tariff Regulation 2009 Clause No.54(4) there is provision of fuel cost adjustment formula on account of fuel related costs of electricity generation to take care of any variation in the variable cost. The fuel cost adjustment will be made accordingly.

A10: INCENTIVE

10.1 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 normative Plant Load Factor for respective year.

10.2 RVUN proposes recovery of incentive as per the Regulations.

A11: COMPLIANCE STATUS OF HON'BLE COMMISSION ORDER DATED 24.02.2014

Compliance Status of Hon'ble Commission Order dated 24.02.2014	
Commission Directives	Compliance Status
Liquidated Damages: Determine the amount to be recovered from the suppliers/contractors.	Liquidated Damages to be recovered has yet not been finalized and RVUN is in process to finalize the same.

<p><u>Waiver of Royalty and Sales:</u> Whether the RVUN has approached the State Govt. for waiver of Royalty and sales tax in compliance of the Commission's direction vide order dt. 17.07.2006.</p>	<p>The matter for waiver of Royalty and sales tax is being taken with the State Government.</p>
<p><u>Actual Expenses for Water Pumping:</u> Provide the actual expenses on this account in the petition for determination of final capital cost and Tariff for FY 2010-11.</p>	<p>The desired information is enclosed as Annexure L.</p>
<p><u>Separate Petition for Determination of Final Capital Cost and Tariff For FY 2010-11 & Submit the Actual Capital Expenditure as per Regulation 44 (5):</u> Provide the actual capital expenditure incurred up to the date of commercial operation duly certified by Statutory Auditors based on annual audited accounts.</p>	<p>RVUN has filed this separate petition for determination of final capital cost and tariff for FY 2010-11. Further with regard to compliance of regulation 44(5), RVUN has obtained the certificate from Statutory Auditors of actual capital expenditure incurred up to the date of commercial operation based on annual audited accounts enclosed at annexure M.</p>

A12: RESPONDENTS:-

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

A13: PRAYER

RVUN humbly requests the Hon'ble Commission to:

- ◆ Approval final capital cost.
- ◆ Approval of ARR & tariff for FY-2010-11 to FY 2013-14.
- ◆ And pass such other further orders as are deemed fit and proper in the facts and circumstances of the case.

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

(P. S. Arya)
Chief Engineer (PPMC & IT)

Annexure H		Rs in Crore	
Gross Fixed Assets as on 31.3.2011 (Capita cost)		744.68	
Capital cost as on COD date i.e. 12.03.2011		744.68	
Expenditure charged to Profit and Loss Account from 1.04.2010 to 11.03.2011 (Annexure I)			
Item Charged to Profit and Loss Account During FY 2010-11	Cost for FY 2010-11 (1.04.2010 to 31.03.2011)	Cost for 20 days (12.03.2011 to 31.03.2011)	Cost from 1 April 2010 to 11.03.2011
Repair and Maintenance	10.66	0.58	10.08
Employee Cost	3.51	0.19	3.32
Administrative & General Expenses	2.23	0.12	2.11
Depreciation (20 Days)	2.56	2.56	0.00
Interest & FC	58.40	3.16	55.24
Other O&M cost			
i)Cost of water,	0.15	0.01	0.14
ii) Lubrication and	0.33	0.02	0.31
iii) other cost	0.37	0.02	0.35
Total	78.22	6.66	71.56
Less: Non Tariff Income	0.16	0.01	0.15
Net Fixed Cost	78.07	6.65	71.41
Expenditure charged to Profit and Loss Account from 1.04.2009 to 31.03.2010 (Annexure J)			
Item Charged to Profit and Loss Account During FY 2009-10	Cost for FY 2009-10 (1.04.2009 to 31.03.2010)		
Repair and Maintenance	8.06		
Employee Cost	3.60		
Administrative & General Expenses	2.11		
Depreciation			
Interest & FC	54.80		
Other O&M cost			
i)Cost of water,	0.23		
ii) Lubrication and	0.01		
iii) other cost	0.58		
Total	69.39		
Less: Non Tariff Income	0.07		
Net Fixed Cost	69.32		

			Genco 1.1		
RAJASTHAN RAJYA VIDYUT UTPADAN NIGAM LIMITED					
GLPL Unit-2					
				(Rs. In Cro	
S.No.	Particulars	2010-11	2011-12	2012-13	2013-14
1	2	3	4	5	6
A	Fixed Charge				
1	O & M Expenses	1.27	24.49	25.99	27.57
2	Depreciation	2.65	48.29	48.29	48.29
3	Interest on Term Loans & Fin. Charge	4.99	87.97	81.93	75.90
4	Interest on Working Capital Loans	0.01	5.60	5.79	5.75
5	Recovery of ARR & Tariff Petition Fees	0.13	0.13	0.13	0.13
6	Insurance Charges	0.04	0.80	0.84	0.88
7	Total Fixed Charge	9.09	167.28	162.97	158.52
8	Less: Non-Tariff Income	0.01	0.21	0.22	0.23
9	Net Fixed Charge	9.08	167.07	162.75	158.29
B	Variable Cost	4.19	81.77	89.19	98.41
C	Total Cost	13.27	248.84	251.94	256.70
D	Unit Sold to Discoms	37.17	681.47	703.84	728.07
E	Rate of Fixed Charge(Rs/kwh)	2.442	2.452	2.312	2.174
F	Rate of Variable Charge(Rs/kwh)	1.128	1.200	1.267	1.352
G	Rate of Sale of Energy (Rs/kwh)	3.570	3.651	3.579	3.526

RAJASTHAN RAJYA VIDYUT UTPADAN NIGAM LIMITED
GLPL Unit-2
Annual Revenue Requirement

(Rs. in Crore)

S. No.	Particulars	2010-11	2011-12	2012-13	2013-14
1	2	3	4	5	6
A	Generation :				
1	Gross Generation (MU)	42.00	770.03	795.30	822.67
2	Aux. Consumption (%)	11.50%	11.50%	11.50%	11.50%
3	Net Generation (MU)	37.17	681.47	703.84	728.07
B	Receipts :				
1	Sale of Electricity	13.27	248.84	251.94	256.70
2	Other receipts-Non tariff Income	0.01	0.21	0.22	0.23
3	Rev. Subsidies, Grants & Subvention from State Govt.				
	Total 'B'	13.28	249.05	252.16	256.94
C	Expenditure:				
1	Variable Costs, Including Fuel Cost	4.19	81.77	89.19	98.41
2	O & M Expenses	1.27	24.49	25.99	27.57
3	Depreciation	2.65	48.29	48.29	48.29
4	Interest on Term Loans & Fin. Charges	4.99	87.97	81.93	75.90
5	Interest on Working Capital Loans	0.01	5.60	5.79	5.75
6	Recovery of ARR & Tariff Petition Fees	0.13	0.13	0.13	0.13
7	Insurance Charges	0.04	0.80	0.84	0.88
	TOTAL	13.28	249.05	252.16	256.94

Form G 2.1

Plant Characteristics							
Name of the Company	GIRAL LIGNITE POWER LIMITED, BARMER						
Name of the Power Station	GIRAL LIGNITE POWER LIMITED U#2						
Basic characteristics of the plant ¹	CIRCULATING FLUIDISED BED COMBUSTION GENERATOR						
Special Features of the Plant							
Site Specific Features ²	PIT HEAD GENERATION STATION						
Special Technological Features ³	-----						
Environmental Regulation related features ⁴	ESP FOR SPM REGULATION AND LIME STONE FOR SOX REGULATION						
Any other special features	-----						
Fuel Details ⁵	Primary Fuel		Secondary Fuel		Alternate Fuels		
	LIGNITE		HFO/LDO/LIME				
Details	Module number or Unit number						
1	UNIT#2	3	4	5	6	7	& so on
Installed Capacity (IC)	125 MW						
Date of Commercial Operation (COD)	12.03.2011						
Type of cooling system ⁶	CLOSED CKT						
Type of Boiler Feed Pump ⁷	MOTOR DRIVEN						
Pressure (kg/cm2)	131						
Temperature OC							
-At Superheater Outlet	540						
-At Reheater Outlet	540						
Guaranteed Design Heat rate (kCal/kWh) ⁸	2483.9						
Conditions on which guaranteed							
% MCR							
% Makeup							
Design Fuel	LIGNITE						
Design cooling water Temperature							
Back Pressure							

Form G 2.2
Operational Parameters - Generation

Rajasthan Rajya Vidyut Utpadan Nigam Ltd.
GLPL Unit-2

S. No.	Particulars	Units	2010-11	2011-12	2012-13	2013-14
1	2	3	4	5	6	7
2	Operational Parameters - Thermal					
2.1	Total Capacity	MW	125	125	125	125
2.2	Plant Load Factor	%	70.00%	70.13%	72.63%	75.13%
2.3	Gross Generation	MU	42.00	770.03	795.30	822.67
2.4	Auxiliary Energy Consumption	%	11.50%	11.50%	11.50%	11.50%
2.5	Auxiliary Energy Consumption	MU	4.83	88.55	91.46	94.61
2.6	Net Generation	MU	37.17	681.47	703.84	728.07

RAJASTHAN RAJYA VIDYUT UTPADAN NIGAM LIMITED										
GLPL Unit-2										
Revenue from Sale of Power (2010-11 Current Year Estimated)										Form 3.1/Genco
(Rs. in Crore)										
Sl. No.	Particulars	A/c Code	allocation (in %)/ contract demand	Unit Sold (M.U.)	% of total Unit Sold	Demand/ fixed Charges @	Energy Charges @	Fuel & cost adjustment charges@	Total 7+8+9	Average Rate paisa/kwh
1	2	3	4	5	6	7	8	9	10	11
1	Revenue from sale of Electricity (as per approved tariff)	61.410								
	JVVNL			14.50	39.0%	0	0		5.18	357.01
	AVVNL			10.78	29.0%	0	0		3.85	357.01
	JDVVNL			11.89	32.0%	0	0		4.25	357.01
5	Net revenue			37.17	100%	9.08	4.19		13.27	357.01

RAJASTHAN RAJYA VIDYUT UTPADAN NIGAM LIMITED										
GLPL Unit-2										
Revenue from Sale of Power (2011-12 Current Year Estimated)										Form 3.1/Genco
(Rs. in Crore)										
Sl. No.	Particulars	A/c Code	allocation (in %)/ contract demand	Unit Sold (M.U.)	% of total Unit Sold	Demand/ fixed Charges @	Energy Charges @	Fuel & cost adjustment charges@	Total 7+8+9	Average Rate paisa/kwh
1	2	3	4	5	6	7	8	9	10	11
1	Revenue from sale of Electricity (as per approved tariff)	61.410								
	JVVNL			265.77	39.0%	65.16	31.89		97.05	365.15
	AVVNL			197.63	29.0%	48.45	23.71		72.16	365.15
	JDVVNL			218.07	32.0%	53.46	26.17		79.63	365.15
5	Net revenue			681.47	100%	167.07	81.77		248.84	365.15

RAJASTHAN RAJYA VIDYUT UTPADAN NIGAM LIMITED										
GLPL Unit-2										
Revenue from Sale of Power (2012-13 Current Year Estimated)										Form 3.1/Genco
(Rs. in Crore)										
Sl. No.	Particulars	A/c Code	allocation (in %)/ contract demand	Unit Sold (M.U.)	% of total Unit Sold	Demand/ fixed Charges @	Energy Charges @	Fuel & cost adjustment charges@	Total 7+8+9	Average Rate paisa/kwh
1	2	3	4	5	6	7	8	9	10	11
1	Revenue from sale of Electricity (as per approved tariff)	61.410								
	JVVNL			274.50	39.0%	63.47	34.79		98.26	357.95
	AVVNL			204.11	29.0%	47.20	25.87		73.06	357.95
	JDVVNL			225.23	32.0%	52.08	28.54		80.62	357.95
5	Net revenue			703.84	100%	162.75	89.19		251.94	357.95

RAJASTHAN RAJYA VIDYUT UTPADAN NIGAM LIMITED										
GLPL Unit-2										
Revenue from Sale of Power (2013-14 Current Year Estimated)										Form 3.1/Genco
(Rs. in Crore)										
Sl. No.	Particulars	A/c Code	allocation (in %)/ contract demand	Unit Sold (M.U.)	% of total Unit Sold	Demand/ fixed Charges @	Energy Charges @	Fuel & cost adjustment charges@	Total 7+8+9	Average Rate paisa/kwh
1	2	3	4	5	6	7	8	9	10	11
1	Revenue from sale of Electricity (as per approved tariff)	61.410								
	JVVNL			283.95	39.0%	61.73	38.38		100.11	352.58
	AVVNL			211.14	29.0%	45.90	28.54		74.44	352.58
	JDVVNL			232.98	32.0%	50.65	31.49		82.15	352.58
5	Net revenue			728.07	100%	158.29	98.41		256.70	352.58

RAJASTHAN RAJYA VIDYUT UTPADAN NIGAM LIMITED
GLPL Unit-2
INCOME FROM INVESTMENT & OTHER NON TARIFF INCOME

(Rs in Crore)

S. NO.	PARTICULARS	A/C Code	2010-11	2011-12	2012-13	2013-14	Remarks
			4	5	6	7	
A)	Other Non tariff income						
i.	Int. on loans and advances to employees	62.21					
ii.	Int. and other income from investments and deposits	62.22-62.6X					
	Income from sale of scrap	62.340					
	Int. on subvention received from govt.	62.960					
	Income from sale of power to its staff						
	Income from sale of ash						
	Miscellaneous receipts	62.1-62.95	0	0.21	0.22	0.23	
	Total		0.01	0.21	0.22	0.23	

RAJASTHAN RAJYA VIDYUT UTPADAN NIGAM LIMITED
Statement of Expenses on Generation of Power - GLPL Unit-2

(Rs. In Crore)

S. No.	Particulars	A/c Code					Remarks
			2010-11	2011-12	2012-13	2013-14	
1	2	3	4	5	6	7	8
A)	Cost of Fuel Consumption						
1	Cost of Lignite consumed	71.110	2.950	56.568	61.333	68.860	
2	Cost of Lime consumed	71.110	0.670	12.156	12.719	13.017	
3	Cost of oil consumed	71.120	0.572	13.042	15.141	16.536	
B)	Fuel Related Cost/Loss						
1	Fuel related cost	71.2	-	-	-	-	
C)	Operating Expenses						
1	Cost of water	71.5	-	-	-	-	
2	Cost of lubricants and consumable stores	71.6	-	-	-	-	
3	Station supplies	71.7	-	-	-	-	
4	Other cost	71.8	-	-	-	-	
	Total		4.19	81.77	89.19	98.41	

RAJASTHAN RAJYA VIDYUT UTPADAN NIGAM LIMITED
GLPL Unit-2
O&M Expenses

(Rs. In Crore)

S. No.	Particulars	2010-11	2011-12	2012-13	2013-14
1	O&M Expnese norms for Unit Size < 250 MW (per MW)	0.17	0.18	0.19	0.20
2	O&M Expnese norms for Unit Size > 250 MW (per MW)				
3	No of Units < 250 KW	125	125	125	125
4	No of Units > 250 KW				
5	O&M expense for Units < 250 KW	1.16	22.35	23.63	24.98
6	O&M expense for Units > 250 KW				
7	Additional O&M expense for Water pipe lines>50 Km :				
a	Water pumping cost		0.20	0.22	0.24
b	Power consumption Cost		1.56	1.72	1.89
c	Repair Cost		0.10	0.11	0.12
d	Employee cost		0.28	0.31	0.34
	Sub-total	0.11	2.14	2.35	2.59
8	Total O&M expense	1.27	24.49	25.99	27.57

Form G 5.2
Energy Charges for Thermal Generation

Rajasthan Rajya Vidyut Utpadan Nigam Ltd.
GLPL Unit-2

Sno	Particulars	Units	2010-11	2011-12	2012-13	2013-14
1	Operational Parameter					
1.1	Total Capacity	MW	125	125	125	125
1.2	Availability	%	70.00%	70.13%	72.63%	75.13%
1.3	PLF	%	70.00%	70.13%	72.63%	75.13%
1.4	Gross Generation	MU	42.00	770.03	795.30	822.67
1.5	Auxiliary Energy Consumption	%	11.50%	11.50%	11.50%	11.50%
1.6	Auxiliary Energy Consumption	MU	4.83	88.55	91.46	94.61
1.7	Net Generation	MU	37.17	681.47	703.84	728.07
1.8	Heat Rate	kcal/kwh	2830.53	2830.53	2830.53	2830.53
2	Fuel Parameters					
2.1	Calorific Value for Different Fuels					
2.1.1	Fuel 1(LDO)	kcal/ltr	10600.00	10600.00	10600.00	10600.00
2.1.2	Fuel 2(HFO)	kcal/ltr	0.00	0.00	0.00	0.00
2.1.3	Fuel 3(Lignite COAL)	kcal/kg	3002.00	3033.00	2994.00	3026.00
2.1.4	Fuel 4 (LIME)	kcal/kg	0.00	0.00	0.00	0.00
2.2	Landed Fuel Price for different fuels		0.00	0.00	0.00	0.00
2.2.1	Fuel 1(LDO)	Rs./KL	45400.00	56456.91	63460.30	67000.00
2.2.2	Fuel 2(HFO)	Rs./KL	0.00	0.00	0.00	0.00
2.2.3	Fuel 3(Lignite COAL)	Rs./MT	753.44	796.12	825.00	905.00
2.2.4	Fuel 4 (LIME)	Rs./MT	611.00	611.00	611.00	611.00
3	Fuel Consumption and Heat Contribution (for each fuel separately)					
3.1	Specific Fuel Consumption		0.00	0.00	0.00	0.00
3.1.1	Fuel 1(LDO)	ml/kwh	3.00	3.00	3.00	3.00
3.1.2	Fuel 2(HFO)	ml/kwh	0.00	0.00	0.00	0.00
3.1.3	Fuel 3(Lignite COAL)	Kg/kwh	0.93	0.92	0.93	0.92
3.1.4	Fuel 4 (LIME)	Kg/kwh	0.26	0.26	0.26	0.26
3.2	Total Fuel Consumption		0.00	0.00	0.00	0.00
3.2.1	Fuel 1(LDO)	KL	126.00	2310.08	2385.90	2468.02
3.2.2	Fuel 2(HFO)	KL	0.00	0.00	0.00	0.00
3.2.3	Fuel 3(Lignite COAL)	MT	39156.09	710549.76	743428.32	760885.51
3.2.4	Fuel 4 (LIME)	MT	10963.71	198953.93	208159.93	213047.94
3.3	Heat Content (each fuel separately)		0.00	0.00	0.00	0.00
3.3.1	Fuel 1(LDO)	Million kcal	0.00	0.00	0.00	0.00
3.3.2	Fuel 2(HFO)	Million kcal	0.00	0.00	0.00	0.00
3.3.3	Fuel 3(Lignite COAL)	Million kcal	0.00	0.00	0.00	0.00
3.3.4	Fuel 4 (LIME)	Million kcal	0.00	0.00	0.00	0.00
4	Total Fuel Cost		0.00	0.00	0.00	0.00
4.1	Fuel 1(LDO)	Rs Crore	0.57	13.04	15.14	16.54
4.2	Fuel 2(HFO)	Rs Crore	0.00	0.00	0.00	0.00
4.3	Fuel 3(Lignite COAL)	Rs Crore	2.95	56.57	61.33	68.86
4.4	Fuel 4 (LIME)	Rs Crore	0.67	12.16	12.72	13.02
	Total Fuel Cost	Rs Crore	4.19	81.77	89.19	98.41
5.1	Other Charges and Adjustments		0.00	0.00	0.00	0.00
5.2	Other Charges FOR WATER CESS & WATER CONSUMPTION	Rs Crore	0.00	0.00	0.00	0.00
5.3	Other Adjustments	Rs Crore	0.00	0.00	0.00	0.00
6	Total Cost	Rs Crore	4.19	81.77	89.19	98.41
7	Cost of Generation per unit		1.00	1.06	1.12	1.20
8	Energy Charges per unit		1.13	1.20	1.27	1.35

RAJASTHAN RAJYA VIDYUT UTPADAN NIGAM LIMITED
GPL Unit-2

(Rs. In Crore)

Fixed Assets and Provision for Depreciation for GPL Unit-1 for 2010-11													
S.No.	Assets Group	A/c Code	Rate of Depreciation	Gross fixed Assets				Provisions for depreciation				Net fixed Assets	
				Balance as at April, 2010 COD	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	0.025	-	-	0.025	-	-	-	0.000	0.025	0.025
2	Building & Civil works of Power plant	10.2 xx	3.34	2.112	-	-	2.112	-	0.00	-	0.004	2.112	2.108
3	Hydraulic works	10.3xx	5.28	32.065	-	-	32.065	-	0.09	-	0.093	32.065	31.972
4	Other Civil works	10.4 xx	3.34	0.366	-	-	0.366	-	0.00	-	0.001	0.366	0.366
5	Plant & machinery	10.5xx	5.28	862.878	-	-	862.878	-	2.50	-	2.496	862.878	860.382
6	Lines and Cable Networks	10.6 xx	5.28	18.057	-	-	18.057	-	0.05	-	0.052	18.057	18.004
7	Vehicles	10.7xx	9.5	0.000	-	-	0.000	-	-	-	0.000	0.000	0.000
8	Furniture & fixtures	10.8 xx	6.33	0.015	-	-	0.015	-	0.00	-	0.000	0.015	0.015
9	Office Equipments	10.9xx	6.33	0.038	-	-	0.038	-	0.00	-	0.000	0.038	0.038
10	Capital spares	11.3 xx	5.28	0.000	-	-	0.000	-	-	-	0.000	0.000	0.000
Total				915.556			915.556		2.646		2.646	915.556	912.910

Fixed Assets and Provision for Depreciation for GPL Unit-2 for 2011-12													
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	0.025	-	-	0.025	0.000	0.0	-	0.0	0.025	0.0
2	Building & Civil works of Power plant	10.2 xx	3.34	2.112	-	-	2.112	0.004	0.071	-	0.074	2.108	2.038
3	Hydraulic works	10.3xx	5.28	32.065	-	-	32.065	0.093	1.693	-	1.786	31.972	30.279
4	Other Civil works	10.4 xx	3.34	0.366	-	-	0.366	0.001	0.012	-	0.013	0.366	0.353
5	Plant & machinery	10.5xx	5.28	862.878	-	-	862.878	2.496	45.560	-	48.056	860.382	814.822
6	Lines and Cable Networks	10.6 xx	5.28	18.057	-	-	18.057	0.052	0.953	-	1.006	18.004	17.051
7	Vehicles	10.7xx	9.5	0.000	-	-	0.000	0.000	0.000	-	0.000	0.000	0.000
8	Furniture & fixtures	10.8 xx	6.33	0.015	-	-	0.015	0.000	0.001	-	0.001	0.015	0.014
9	Office Equipments	10.9xx	6.33	0.038	-	-	0.038	0.000	0.002	-	0.003	0.038	0.035
10	Capital spares	11.3 xx	5.28	0.000	-	-	0.000	0.000	0.000	-	0.000	0.000	0.000
Total				915.556	0.000		915.556	2.646	48.292		50.939	912.910	864.617

Fixed Assets and Provision for Depreciation for GPL Unit-2 for 2012-13													
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	0.025	-	-	0.025	0.0	0.0	-	0.0	0.025	0.025
2	Building & Civil works of Power plant	10.2 xx	3.34	2.112	-	-	2.112	0.1	0.071	-	0.145	2.038	1.967
3	Hydraulic works	10.3xx	5.28	32.065	-	-	32.065	1.8	1.693	-	3.479	30.279	28.586
4	Other Civil works	10.4 xx	3.34	0.366	-	-	0.366	0.0	0.012	-	0.025	0.353	0.341
5	Plant & machinery	10.5xx	5.28	862.878	-	-	862.878	48.1	45.560	-	93.616	814.822	769.262
6	Lines and Cable Networks	10.6 xx	5.28	18.057	-	-	18.057	1.0	0.953	-	1.959	17.051	16.098
7	Vehicles	10.7xx	9.5	0.000	-	-	0.000	0.0	0.000	-	0.000	0.000	0.000
8	Furniture & fixtures	10.8 xx	6.33	0.015	-	-	0.015	0.0	0.001	-	0.002	0.014	0.013
9	Office Equipments	10.9xx	6.33	0.038	-	-	0.038	0.0	0.002	-	0.005	0.035	0.033
10	Capital spares	11.3 xx	5.28	0.000	-	-	0.000	0.0	0.000	-	0.000	0.000	0.000
Total				915.56	0.00	0.00	915.56	50.94	48.29	0.00	99.23	864.62	816.32

Fixed Assets and Provision for Depreciation for GLPL Unit-2 for 2013-14														
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	0.025	0.000	0.000	0.025	0.0	0.0	0.000	0.0	0.025	0.025	
2	Building & Civil works of Power plant	10.2 xx	3.34	2.112	0.000	0.000	2.112	0.145	0.071	0.000	0.215	1.967	1.897	
3	Hydraulic works	10.3xx	5.28	32.065	0.000	0.000	32.065	3.479	1.693	0.000	5.172	28.586	26.893	
4	Other Civil works	10.4 xx	3.34	0.366	0.000	0.000	0.366	0.025	0.012	0.000	0.037	0.341	0.329	
5	Plant & machinery	10.5xx	5.28	862.878	0.000	0.000	862.878	93.616	45.560	0.000	139.176	769.262	723.702	
6	Lines and Cable Networks	10.6 xx	5.28	18.057	0.000	0.000	18.057	1.959	0.953	0.000	2.912	16.098	15.144	
7	Vehicles	10.7xx	9.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
8	Furniture & fixtures	10.8 xx	6.33	0.015	0.000	0.000	0.015	0.002	0.001	0.000	0.003	0.013	0.012	
9	Office Equipments	10.9xx	6.33	0.038	0.000	0.000	0.038	0.005	0.002	0.000	0.007	0.033	0.030	
10	Capital spares	11.3 xx	5.28	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
				Total	915.56	0.00	0.00	915.56	99.23	48.29	0.00	147.52	816.32	768.03

RAJASTHAN RAJYA VIDYUT UTPADAN NIGAM LIMITED							
GLPL Unit-2							
Form-6.2/GENCO							
LOAN REPAYMENT & INTEREST LIABILITY 2010-11							
(Rs.in Crore)							
S.No.	Source	Balance As on	Receipts during the year	Repayment made during the year	Closing Balance	Average Rate of Int.	Interest Paid
1	Term Loan	565.00	0.00	2.65	562.35	12.50%	3.86
2	Other Loan	165.56	0.00	0.00	165.56	12.50%	1.13
	Total	730.56	0.00	2.65	727.91	12.50%	4.99
	Other Finance Charges						0.00
	Interest During Construction						0.00
	Grand Total						4.99

RAJASTHAN RAJYA VIDYUT UTPADAN NIGAM LIMITED							
GLPL Unit-2							
Form-6.2/GENCO							
LOAN REPAYMENT & INTEREST LIABILITY 2011-12							
(Rs.in Crore)							
S.No.	Source	Opening Balance	Receipts during the year	Repayment made during the year	Closing Balance	Average Rate of Int.	Interest Paid
1	Term Loan	562.35	0.00	48.29	514.06	12.50%	67.28
2	Other Loan	165.56	0.00	0.00	165.56	12.50%	20.69
	Total	727.91	0.00	48.29	679.62	12.50%	87.97
	Other Finance Charges						
	Interest During Construction						
	Grand Total						87.97

RAJASTHAN RAJYA VIDYUT UTPADAN NIGAM LIMITED							
GLPL Unit-2							
Form-6.2/GENCO							
LOAN REPAYMENT & INTEREST LIABILITY 2012-13							
(Rs.in Crore)							
S.No.	Source	Opening Balance	Receipts during the year	Repayment made during the year	Closing Balance	Average Rate of Int.	Interest Paid
1	Term Loan	514.06	0.00	48.29	465.77	12.50%	61.24
2	Other Loan	165.56	0.00	0.00	165.56	12.50%	20.69
	Total	679.62	0.00	48.29	631.33	12.50%	81.93
	Other Finance Charges						
	Interest During Construction						
	Grand Total						81.93

RAJASTHAN RAJYA VIDYUT UTPADAN NIGAM LIMITED							
GLPL Unit-2							
Form-6.2/GENCO							
LOAN REPAYMENT & INTEREST LIABILITY 2013-14							
(Rs.in Crore)							
S.No.	Source	Opening Balance	Receipts during the year	Repayment made during the year	Closing Balance	Average Rate of Int.	Interest Paid
1	Term Loan	465.77	0.00	48.29	417.48	12.50%	55.20
2	Other Loan	165.56	0.00	0.00	165.56	12.50%	20.69
	Total	631.33	0.00	48.29	583.04	12.50%	75.90
	Other Finance Charges						
	Interest During Construction						
	Grand Total						75.90

GPLL Unit-2
RAJASTHAN RAJYA VIDYUT UTPADAN NIGAM LIMITED
Calculation of Interest on Working Capital Loan 2012-13

Form 6.15/Genco

(Rs. In Crore)

Sl. No.	Particulars	Norms considered	2010-11	2011-12	2012-13	2013-14
1	Lignite Cost (Non pit head)	1½ Month	NA	NA	NA	NA
2	Lignite Cost (Pit head)	Half month	0.12	2.36	2.56	2.87
3	Lime Cost	Half month	0.03	0.51	0.53	0.54
4	Sec.Fuel Oil	Two month	0.10	2.17	2.52	2.76
5	Liquid Fuel Stock	Half month	NA	NA	NA	NA
6	O & M expenses	One month	0.11	2.04	2.17	2.30
7	Maintenance Spares	20% of O&M	0.25	4.90	5.20	5.51
8	Recicvables	One & Half month	1.66	31.10	31.49	32.09
9	Working capital Loan Requirement		2.26	43.08	44.46	46.07
10	Rate of Interest		11.75%	13.00%	13.02%	12.48%
11	Interest on Working Capital		0.01	5.60	5.79	5.75

Form G 7.1

Proposed improvement in performance**Rajasthan Rajya Vidyut Utpadan Nigam Ltd.****GLPL Unit-2**

Rs. Crore

S.No.	Particulars	2010-11	2011-12	2012-13	2013-14	Remarks
1	2	3	4	5	6	7
1	Plant load factor	70.00%	70.13%	72.63%	75.13%	
2	Auxiliary consumption	11.50%	11.50%	11.50%	11.50%	
3	specific fuel consumption					
(i)	Lignite, kg / kWh	0.93	0.92	0.93	0.92	
ii)	gas, SCM / kWh					
(iii)	oil, ml / kwh					
(iv)	any other fuel (Lime)					
4	Station heat rate, kcal / kwh	2830.53	2830.53	2830.53	2830.53	
5	Annual Maitenance shut down days for all units combined					
6	forced / planned shut down except					
	annual shut down for all units combined					
(i)	number / year for all units combined					
(ii)	cumulative duration, hours / year for all units combined					
7	fly ash utilisation, %					
8	other bye product utilisation(givelist)					
9	outstanding dues, days of receivables					
10	Availability	70.00%	70.13%	72.63%	75.13%	