

Aggregate Revenue Requirement (ARR)

&

Tariff Petition for FY 2018-19

For

Giral Unit 1 & 2

Submitted to

Rajasthan Electricity Regulatory Commission

Jaipur

by

Giral Lignite Power Ltd. (GLPL), Barmer

December- 2017

Contents

A1: BACKGROUND	7
A2: GENERATION FORECAST.....	7
A3: GIRAL UNIT 1 & 2 ANNUAL CAPACITY (FIXED) CHARGES FOR FY 2017-18.....	8
CAPITAL COST	8
UNIT#18	
ADDITIONAL CAPITALIZATION/ WRITE OFF	8
DURING FY 2011-12	9
DURING FY 2012-13	9
DURING FY 2014-15	9
DURING FY 2016-17	9
ADDITIONAL CAPITALIZATION/ WRITE OFF	10
DURING FY 2011-12	11
DURING FY 2014-15	11
DURING FY 2015-16	11
DURING FY 2016-17	11
DEPRECIATION:-	12
INTEREST ON LOANS:-	12
INTEREST ON WORKING CAPITAL	12
OPERATION & MAINTENANCE EXPENSES	13
RECOVERY OF ARR & TARIFF PETITION FEES	15
INSURANCE CHARGES	16
RETURN ON EQUITY	16
NON-TARIFF INCOME	16
A4: GIRAL ESTIMATED CAPACITY CHARGES (FIXED).....	17
A5: VARIABLE CHARGES.....	17
A6: ESTIMATED ARR FOR GIRAL UNIT 1&2.....	19
A7: GIRAL ESTIMATED TARIFF.....	19
A8: FUEL COST ADJUSTMENT.....	19
A9: RESPONDENTS:-	20
A10: PRAYER	20

LIST OF TABLES

TABLE 1: GROSS GENERATION, PLF & EX-BUS ENERGY SALE FROM GIRAL UNIT 1 & 2.....	7
TABLE 2: ADDITION IN CAPITAL COST UNIT 1 (RS. IN CRORE).....	8
TABLE 3: ADDITION IN CAPITAL COST UNIT 2 (RS. IN CRORE).....	10
TABLE 4: DEPRECIATION UNIT 1&2 (RS. IN CRORE).....	12
TABLE 5: INTEREST ON NORMATIVE LOANS UNIT 1&2 (RS. IN CRORE).....	12
TABLE 6: INTEREST ON WORKING CAPITAL UNIT 1&2 (RS. IN CRORE).....	13
TABLE 7: O & M EXPENSES FOR UNIT 1&2 (RS. IN CRORE).....	13
TABLE 8 PUMPING STATIONS DISTANCE:.....	14
TABLE 9: SPECIAL O & M EXPENSES FOR UNIT 1&2 (RS. IN CRORE).....	15
TABLE 10: TOTAL O & M EXPENSES NORMATIVE FOR UNIT 1&2 (RS. IN CRORE).....	15
TABLE 11: RECOVERY OF ARR & TARIFF PETITION FEES FOR UNIT 1&2 (RS. IN CRORE).....	15
TABLE 12: INSURANCE CHARGES UNIT 1&2 (RS. IN CRORE).....	16
TABLE 13: ROE UNIT 1&2 (RS. IN CRORE).....	16
TABLE 14: NON-TARIFF INCOME UNIT 1&2 (RS. IN CRORE).....	17
TABLE 15: NET CAPACITY CHARGES FOR GIRAL UNIT 1&2 (RS. IN CRORE).....	17
TABLE 16: VARIABLE COST FOR UNIT 1&2 (RS. IN CRORES).....	18
TABLE 17: ARR FOR GIRAL UNIT 1&2 (RS. IN CRORES).....	19
TABLE 18: GIRAL ESTIMATED TARIFF 1&2 (RS. IN CRORES).....	19

Form No.	Particulars	Page No.
Form G 1.1	Summary of Tariff proposal	21
Form G 1.2	Aggregate Revenue Requirement	22
Form G 2.1	Plant characteristics	23
Form G 2.2	Operational Parameters – Generation	24
Form G 3.1	Revenue from sale of power	25
Form G 3.2	Non-tariff income	26
Form G 3.3	Revenue Subsidies & Grants	27
Form G 3.4	Capital Subsidies and Grants	28
Form G 4.1	O&M Expenses	29
Form G 5.1 & 5.2	Details/Information in respect of Fuel for Computation of Energy Charges (Lignite, LDO & lime)	30-32
Form G 5.3	Energy Charges for Thermal Generation	33
Form G 6.1	Fixed assets & provisions for depreciation	34-35
Form G 6.2	Loan Repayment & Interest liability	36
Form G 6.3	Details of Project Specific Loans	37
Form G 6.4	Consolidated report on additions to Fixed Assets during the year	38
Form G 6.5	Abstract of Capital Cost Estimates and Schedule of Commissioning for the New projects	39
Form G 6.6	Break-up of Capital Cost for Coal / Lignite / gas / liquid fuel based projects	40
Form G 6.7	Break-up of Construction / Supply / Service packages	41
Form G 6.8	Draw Down Schedule for Calculation of IDC & Financing Charges	42
Form G 6.9	Return on Equity	43
Form G 6.10	Statement of Additional Capitalisation after COD and Details for Financing	44
Form G 6.11	Interest on Working capital	45
Form G 6.12	Insurance Expenses	46
Form G 6.13	Tax on ROE	47
Form G 7.1	Proposed improvement in performance	48

Definitions

Act	The Electricity Act, 2003
Application	This Petition for ARR and Tariff for FY2018-19 for for GLPL Unit-1 and Unit-2 of Giral Lignite Power Ltd. (GLPL), Barmer
Auxiliary Consumption (Aux. Con.)	Auxiliary Consumption in relation to a period means the quantum of energy consumed by auxiliary equipment of the generating station and transformer losses within the generating station, and shall be expressed as a percentage of the sum of gross energy generated at the generator terminals of all the units of the generating station
Availability	Availability shall have the same meaning as defined in Section 2(7) of the RERC Tariff Regulations 2014.
Distribution Company / Discoms	Discoms or Distribution Company shall mean a company engaged primarily in the business of distribution & supply of electricity in its area of supply including Jaipur Vidyut Vitran Nigam Ltd. (JVVN), Ajmer Vidyut Vitran Nigam Ltd. (AVVN) and Jodhpur Vidyut Vitran Nigam Ltd. (JdVVN).
Gross Calorific Value (GCV)	Gross Calorific Value in relation to a thermal power generating station means the heat produced in kCal by complete combustion of one kilogram of solid fuel or one litre of liquid fuel or one standard cubic meter of gaseous fuel, as the case may be.
Regulation	The Rajasthan Electricity Regulatory Commission (Terms and Conditions for Determination of Tariff) Regulations, 2014 notified by RERC on March- 27, 2014
State	The State of Rajasthan.
Gross Station Heat Rate	Heat energy input in kCal required to generate one unit (kWh) of electrical energy at generator terminals.
Unit	Unit in relation to a generating station means electric generator, its prime mover and auxiliaries and in relation to a combined cycle thermal power generating station includes combustion turbine – generators, associated waste heat recovery boilers, connected steam turbine-generator and auxiliaries

Abbreviations

ARR	Aggregate Revenue Requirement
Ajmer Discom	Ajmer Vidyut Vitran Nigam Limited
CSR	Corporate Social Responsibility
FY	Financial Year
FY – 17	Financial Year 2016-17
FY – 18	Financial Year 2017-18
FY – 19	Financial Year 2018-19
GCV	Gross Calorific Value
GFA	Gross Fixed Assets
GLPL	Giral Lignite Power Limited
Gol	Government of India
GoR	Government of Rajasthan
Jaipur Discom	Jaipur Vidyut Vitran Nigam Limited
Jodhpur Discom	Jodhpur Vidyut Vitran Nigam Limited
KWh	Kilo Watt Hour or Unit
MU	Million Units
MW	Megawatts
PLF	Plant Load Factor
PPA	Power Purchase Agreement
R&M	Repairs and Maintenance
RERC/ Commission	Rajasthan Electricity Regulatory Commission
RVUN	Rajasthan Rajya Vidyut Utpadan Nigam Limited
RVPN	Rajasthan Rajya Vidyut Prasaran Nigam Limited
Rs.	Indian Rupees
SHR	Station Heat Rate
Transfer Scheme	The Rajasthan Power Sector Reforms Transfer Scheme, 2000

Notes:

In this Petition:

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

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

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

A1: BACKGROUND

- 1.1 Rajasthan Rajya Vidyut Utpadan Nigam Ltd (RVUN) was incorporated under the Companies Act 1956, as one of the five successor companies of erstwhile Rajasthan State Electricity Board (RSEB) to take over the electricity generation business in the state of Rajasthan. The existing power stations and those under commissioning in the state sector were transferred to RVUN as per the Rajasthan Power Sector Reforms Transfer Scheme, 2000 notified by State Government provisionally on 19th July 2000 and finally on 18th January 2002.
- 1.2 From 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, 40:28:32 from June 2014 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, 15.12.10 and further PPA was signed on dt. 29.06.15 which includes GLPL Unit 1 & 2 (125MW).
- 1.3 Giral Lignite Power Limited (GLPL), a subsidiary company of RVUN was incorporated under the Companies Act, 1956 on 23.11.2006 and became operational on 01.01.2009 and 01.04.2015 by transferring assets & liabilities of Unit-1 & 2 from RVUN to GLPL respectively.
- 1.4 Accordingly GLPL is submitting petition for FY 18-19 before the Hon'ble Commission for GLPL Unit-1 & 2 (2x125 MW) for ARR & tariff determination 2018-19.

A2: GENERATION FORECAST

- 1.5 The installed capacity of Giral Unit 1 & 2 is (2x125=250) MW. The estimated figures of Gross generation, PLF & net energy sale to three Discoms from Giral unit 1&2 for the period FY 2016-17, FY 2017-18 and FY 2018-19 are as shown below:

Table 1: Gross generation, PLF & Ex-bus energy sale from Giral Unit 1 & 2

Particular	FY 16-17 Actual	FY 17-18 (Estimated for Jan 18 to Mar18)	FY 18-19 Estimated
	Unit 1 & 2	Unit 1 & 2	Unit 1 & 2
Capacity (MW)	250.00	250.00	250.00
PLF (%)	0.00%	19.73%	80.00%
Gross generation (MU)	0.00	432.00	1752.00
Aux Cons. (%)	0.00	11.50%	11.50%
Net Generation (MU)	-5.45	382.32	1550.52

FIXED CHARGES

A3: GIRAL UNIT 1 & 2 ANNUAL CAPACITY (FIXED) CHARGES FOR FY 2017-18

1.6 The fixed cost elements as detailed hereunder for Giral unit 1 & 2 for the period FY 2016-17, FY 2017-18 and FY 2018-19 are as shown below:

Capital cost

Unit#1

1.7 The Hon'ble Commission in its order dated 12.08.15 has finalized the capital cost of GLPL unit 1 of Rs. 783.43 Cr. for GLPL Unit-1 based on the capital cost approved by the Commission of Rs. 783.43 Cr. as on CoD and subsequent additions and write off made in the books of account by petitioner has considered capital cost of GLPL Unit#1 and is shown in below table:

Table 2: Addition in Capital Cost Unit 1 (Rs. in Crore)

Year	Opening Balance	Addition during the year	Written off during the year	Closing Balance
FY 2011-12 (Approved by the Commission (CoD) vide order 12.08.2015)	0	(COD-783.43) + (0.15 after COD till 31.03.2012)	0	783.46
FY 2012-13	783.46	0.3	6.82	776.94
FY 2013-14	776.94	0	0	776.94
FY 2014-15	776.94	0.79	0	777.73
FY 2015-16	777.73	0	0	777.73
FY 2016-17	777.73	1.51	0.33	778.91
FY 2017-18	778.91	0	0	778.91
FY 2018-19	778.91	0	0	778.91

Additional Capitalization/ Write Off

Provision in the Tariff Regulation 2009:

17. Additional capitalization

(1) The following capital expenditure, actually incurred after the date of commercial operation and upto the cut-off date and duly audited, may be considered by the Commission against the original scope of work, subject to prudence check (a) Due to deferred liabilities within the original scope of work, (b) On works within the original scope of work, deferred for execution (c) To meet award of arbitration or satisfaction of order or decree of a court arising out of original scope of works, (d) On account of change in law, (e) On procurement of initial spares included in the original project costs subject to the ceiling norm laid down in Regulation 18, (f) Any additional works/ services, which have become necessary for efficient and successful operation of a generating station or a transmission or a distribution system but not included in the original capital cost.

1.8 Keeping in view the above Regulation, GLPL has incurred the following capital expenditure

During FY 2011-12

1. Rs. 146918/- under the head line cables network towards balance work completed.
2. Rs. 3797/- under the head furniture and fixture towards balance payment released.

During FY 2012-13

1. Rs. 2946909 /- under the head plant and machinery towards balance payment released to A.H.P Zuberi.
2. Rs. 65857/- under the head vehicle towards balance payment released.
3. Rs. 1947317/-, Rs 1552331/-, and Rs. 64671395/- towards land, Plant & Machinery and Building and other civil works respectively have been transferred to RVPN through an inter company transaction.

During FY 2014-15

1. Rs. 4355280 /- under the head land purchased from RSMM.
2. Rs. 2819086/- under the head Plant and Machinery towards balance payment released to consultant M/S Deisin.
3. Rs. 439858/- and Rs. 350262/- towards computer and office equipments respectively which have become necessary for efficient and successful operation of generating unit.

During FY 2016-17

1. Rs. 5124484/- under the 'Building & Civil works' of Power plant towards balance payment released as per Regulation 17(1) (a) of RERC Tariff Regulations, 2014.
2. Rs.2375000/- under the head plant and machinery towards balance payment released as per Regulation 17(1) (a) of RERC Tariff Regulations, 2014.
3. Rs.5665014/- under the head hydraulic work towards balance payment released as per Regulation 17(1) (a) of RERC Tariff Regulations, 2014.
4. Rs.1947317/- under the Land.
5. Rs. 1866427/- deduction under the head Land on transfer of Assets
6. Rs. 1400000/- deduction under the head plant and machinery on transfer of Assets.

Unit#2

- 1.9 The Hon'ble Commission in its order dated 12.08.15 has finalized the capital cost of GLPL unit 2 of Rs. 848.71 Cr. for GLPL Unit-1 based on the capital cost approved by the Commission of Rs. 848.71 Cr. as on CoD and subsequent additions and write off made in the books of account by petitioner has considered capital cost of GLPL Unit#1 and is shown in below table:

Table 3: Addition in Capital Cost Unit 2 (Rs. in Crore)

Year	Opening Balance	Addition during the year	Written off during the year	Closing Balance
FY 2010-11[Approved by the Commission (CoD) vide order 12.08.2015]	0	848.71	0	848.71
FY 2011-12	848.71	0.04	2.17	846.58
FY 2012-13	846.58	0	0	846.58
FY 2013-14	846.58	0	0	846.58
FY 2014-15	846.58	3.38	0	849.96
FY 2015-16	849.96	2.62	0	852.58
FY 2016-17	852.58	0.13	4.42	848.29
FY 2017-18	848.29	0	0	848.29
FY 2017-19	848.29	0	0	848.29

Additional Capitalization/ Write Off

Provision in the Tariff Regulation 2009:

17. Additional capitalization

(1) The following capital expenditure, actually incurred after the date of commercial operation and upto the cut-off date and duly audited, may be considered by the Commission against the original scope of work , subject to prudence check (a) Due to deferred liabilities within the original scope of work, (b) On works within the original scope of work, deferred for execution (c) To meet award of arbitration or satisfaction of order or decree of a court arising out of original scope of works, (d) On account of change in law, (e) On procurement of initial spares included in the original project costs subject to the ceiling norm laid down in Regulation 18, (f) Any additional works/ services, which have become necessary for efficient and successful operation of a generating station or a transmission or a distribution system but not included in the original capital cost,

- 1.10 Keeping in view the above Regulation, GLPL has incurred the following capital expenditure

During FY 2011-12

Under the head Plant & Machinery Rs. 2,16,99,397/- are written-off and under the following heads additions are made:

S.No	Particulars	Amount(Rs.)
1	Building & Civil works of Power plant	31,953
2	Hydraulic works	1,82,527
3	Other Civil works	5,540
4	Lines and Cable Networks	2,04,379
	Total	4,24,399

During FY 2014-15

1. Rs. 33848180/- under the head plant and machinery towards balance payment released as per Regulation 17(1) (a) of RERC Tariff Regulations, 2014.

During FY 2015-16

1. Rs. 26181239/- under the head plant and machinery towards balance payment released as per Regulation 17(1) (a) of RERC Tariff Regulations, 2014.

During FY 2016-17

1. Rs. 652840/- under the head building and civil work towards power plant towards balance payment released as per Regulation 17(1) (a) of RERC Tariff Regulations, 2014.
2. Rs. 683569/- under the head hydraulic work towards balance payment released as per Regulation 17(1) (a) of RERC Tariff Regulations, 2014.
3. Rs. 44242166/- deduction under the head plant and machinery on transfer of Assets.

Depreciation:-

- 1.11 While calculating the Depreciation (Form 6.1) the capital cost as mentioned in the above para have been considered.
- 1.12 Estimated figures of depreciation for FY 2016-17, FY 2017-18 and FY 2018-19 for GLPL Unit 1&2 are summarised in Table below.

Table 4: Depreciation Unit 1&2 (Rs. in Crore)

Particular	FY 16-17 Actual	FY 17-18 (Estimated)	FY 18-19 Estimated
Depreciation	84.14	84.06	84.06

Interest on Loans:-

- 1.13 The interest on term loan and finance charges has been worked out as per regulation 21 of RERC Tariff Regulation 2014.

1.14 For the purpose of computation interest on term loan the petitioner has consider the normative loan approved by the Commission in its order dated 12.08.2015 and additional/reduction in loan corresponding to the capitalisation /write off of gross fixed assets in the respective years.

1.15 The loan repayment has been taken equal to the depreciation figure envisaged for period FY 2016-17, FY 2017-18 and FY 2018-19.

1.16 Estimated figures for interest on term loan and finance charges are summarised in Table below:

Table 5: Interest on Normative Loans Unit 1&2 (Rs. In Crore)

Particular	FY 16-17 Actual	FY 17-18 (Estimated)	FY 18-19 Estimated
	Unit 1&2	Unit 1&2	Unit 1&2
Interest Term Loan and finance charges	94.24	84.80	75.59

Interest on working Capital

1.17 The interest on working capital loan for period FY 2016-17, FY 2017-18 and FY 2018-19 has been computed as per the norms defined under Regulation 27 of RERC Tariff Regulations 2014.

1.18 For period FY 2016-17, FY 2017-18 and FY 2018-19, the rate of interest on WLC has taken equal to 250 basis points higher than the average Base Rate of State Bank of India prevalent during first six months of the previous year.

1.19 The average Base Rate of 9.76%, 9.30% and 9.30% of State Bank of India were prevalent during first six months of the previous year of period FY 2016-17, FY 2017-18 and FY 2018-19 respectively, thus rate on interest on working capital has been consider as 12.26%, 11.80% & 11.80% for FY 2016-17, FY 2017-18 and FY 2018-19 respectively.

1.20 Estimate figures of interest on working capital loan as computed under format 6.11 is summarised as below:

Table 6: Interest on working Capital Unit 1&2 (Rs. in Crore)

Particular	FY 16-17 Actual	FY 17-18 (Estimated)	FY 18-19 Estimated
Interest on Working Capital	5.85	7.59	11.06

Operation & Maintenance Expenses

1.21 The Operation & Maintenance Expenses have been computed as per the norms prescribed under Regulation 47 of RERC Tariff Regulation 2014.

1.22 As per Regulation 24 of RERC Tariff Regulation 2014, Normative O&M expenses allowed at the commencement of the Control Period (i.e. FY 2014-15) shall be escalated at the rate of 5.85% per annum for each year of the control period. Accordingly, the O&M expenses for period FY 2016-17, FY 2017-18 and FY 2018-19 are computed as bellow:

Table 7: O & M Expenses for Unit 1&2 (Rs. in Crore)

Particular	FY 16-17 Actual	FY 17-18 (Estimated)	FY 18-19 Estimated
O & M Expenses	11.47	64.62	68.29

1.23 Further, as per Regulation 47(4) of RERC Tariff Regulation 2014, in case the process water is required to be transported over a distance of more than 50 km, then appropriate special O&M expenses, subject to the prudence check by the Commission, shall be allowed in addition to the above O&M expenses. It shall include O&M expenses related to pipe line beyond 50 km and water pumping station operation cost, and additional power consumption for such pumping stations.

1.24 Giral power plant is bringing process water from Indira Ghandi Nahar Pariyojana Mohangarh Jaiselmer located at 170 Km from the Power plant and there are 04 pumping stations for pumping water from mohangarh to Giral. The complete pipe line and pumping stations are maintained by the Giral power station, the O & M of pipe line and pumping stations is carried out by Giral staff and single contract man power, the spares and consumables are not booked separately for 50 km and 120 Km. Thus the expenditure is not booked separately for 50 Km and 120 Km. Therefore the expenditure for these heads is taken in prorata basis that is per Km and claimed for 120 Km out of 170 km. The electricity consumption of Mohangarh is not included in the claim as it is located near the Canal and the electricity charges of Kanod are divided in ratio of 10:25 as this pump is pumping water for 35 Km out of which 10 km comes under the first 50 km range and rest 25 Km is beyond the 50 km range. The electricity for Aakal and Devikot is claimed full. Distanced details of pumping stations is summarised as below:

Table 8 Pumping Stations Distance:

Sr. No.	Pumping Stations	Distance From Canal	Total (KM)
1	Mohangarh	located at canal only, push water upto 40 KM (0Km-40KM)	40
2	Kanod	Length 35KM (40 KM to 75 KM), push water for 35 km.	75
3	Aakal	Length 30KM (75 KM to 105 KM), push water for 30 km.	105
4	Devikot	Length 65KM (105 KM to 170 KM) till Plant, push water for 65 km.	170

Note:-

1. Expenses other than electricity consumption have been calculated considering per KM pro-rata basis.
i.e. $Expenses \times 120 / 170$ (120 KM = 170 KM-50 KM)
2. Electricity expenses for calculating special O&M charges are considered as below:-
 - a. Expenses of Devikot & Aakal pumping stations taken into special O&M charges.
 - b. Expenses of Kanod pumping station taken in the ratio of 10:25. This pumping station is located 40 KM far from Mohangarh pumping station and next pumping station i.e. Aakal is 35 KM far from Kanod. So electricity expenses beyond 50 KM are included in special O&M charges.

1.25 Accordingly the Special O&M expenses for period FY 2016-17, FY 2017-18 and FY 2018-19 are computed as bellow:

Table 9: Special O & M Expenses for Unit 1&2 (Rs. in Crore)

Particular	FY 2016-17 Actual	FY 2017-18 (Estimated)	FY 2018-19 Estimated
Details of Water pumping Stations beyond 50 K.M. from Water intake point			
Pumping Station			
Expense for Man-Power engaged for operation & maintenance for pumping stations	0.00	0.00	0.00
Expense for maintenance of Raw water pipe line	0.00	0.00	0.00
Expenses for Spares & Lubrications for R&M of pumping stations	0.00	0.00	0.00
Expenses for Electricity Consumption of pumping stations (Rs.)	1.89	1.89	1.89
Total Special O&M Expenses	1.89	1.89	1.89

1.26 Estimated figures of total O&M expenses for the period FY 2016-17, FY 2017-18 and FY 2018-19 as computed under format 4.1 are summarised in table below.

Table 10: Total O & M Expenses Normative for Unit 1&2 (Rs. in Crore)

Particular	FY 16-17 Actual	FY 17-18 (Estimated)	FY 18-19 Estimated
O&M Expense norms (Rs. per MW)	0.24	0.25	0.27
Total Capacity in MW	250.00	250.00	250.00
O&M expense with Spl O&M	11.47	64.62	68.29

Recovery of ARR & Tariff Petition Fees

1.27 The Hon'ble Commission vide order dated 10.03.08 has allowed to pass through the fees levied for filling ARR & tariff petition, as expenses in the ARR.

1.28 The ARR & Tariff Petition Fees for period FY 2016-17, FY 2017-18 and FY 2018-19 are summarised in Table below.

Table 11: Recovery of ARR & Tariff Petition Fees for Unit 1&2 (Rs. in Crore)

Particular	FY 16-17 Actual	FY 17-18 (Estimated)	FY 18-19 Estimated
ARR and Tariff Petition Fee	0.19	0.13	0.13

Insurance Charges

1.29 The insurance charges have been claimed as per actual for FY 2016-17 and further, for the year FY 2017-18 and FY 2018-19 are estimated based on actual insurance charges paid in preceding year with an escalation of 5% YoY (year on year). The details are shown in the table below:

Table 12: Insurance Charges Unit 1&2 (Rs. in Crore)

Particular	FY 16-17 Actual	FY 17-18 (Estimated)	FY 18-19 Estimated
Insurance Charges	1.15	1.20	1.26

Return on Equity

1.30 As per Regulation 20 of RERC Tariff Regulation 2014, Return on equity shall be computed at the base rate of 15.5% for Generating Companies. Accordingly the Return on Equity has been computed for period FY 2016-17, FY 2017-18 and FY 2018-19.

1.31 The Return on Equity (ROE) for period FY 2016-17, FY 2017-18 and FY 2018-19 are summarised in Table below:

Table 13: ROE Unit 1&2 (Rs. in Crore)

Particular	FY 16-17 Actual	FY 17-18 (Estimated)	FY 18-19 Estimated
Return on Equity	50.71	50.66	50.66

Non-Tariff Income

1.32 As per the RERC Tariff Regulations 2014, the annual fixed charges recoverable by a Generating Company shall be worked out by deducting its non-tariff income as per provisions of regulation 36 from the total annual expenses.

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

- a) Sale of Scrap
- b) Income from rent on land/buildings
- c) Miscellaneous receipts (rebates etc.)

1.34 Estimated figures of Non Tariff Income for period FY 2016-17, FY 2017-18 and FY 2018-19 are summarised in Table below.

Table 14: Non-Tariff Income unit 1&2 (Rs. in Crore)

Particular	FY 16-17 Actual	FY 17-18 (Estimated)	FY 18-19 Estimated
Non-Tariff Income	0.28	0.37	0.39

A4: GIRAL ESTIMATED CAPACITY CHARGES (FIXED)

1.35 The net fixed charges is computed for period FY 2016-17, FY 2017-18 and FY 2018-19 in the Table below

Table 15: Net Capacity Charges for Giral Unit 1&2 (Rs. in Crore)

Particular	FY 2016-17 Actual	FY 2017-18 (Estimated)	FY 2018- 19 Estimated
Fixed Charges			
Depreciation	84.14	84.06	84.06
Interest on term Loan & Finance charges	94.24	84.80	75.59
Return on Equity	50.71	50.66	50.66
Tax on ROE	0.00	0.00	0.00
Interest on Working Capital	5.85	7.59	11.06
O & M Expenses	11.47	64.62	68.29
Insurance Charges	1.15	1.20	1.26
ARR and Tariff Petition Fee	0.19	0.13	0.13
Total Fixed Charges	247.74	292.87	290.86
Less: Non Tariff Income	0.28	0.37	0.39
Net Fixed Charges	247.47	292.50	290.47

A5: VARIABLE CHARGES

1.36 The Hon'ble Commission in its order dt. 07.12.2016 allows SHR for Units 1 & 2, of 2449.50 kCal/kWh, the same has been considered for the instant petition. Auxiliary consumption is considered as 11.50 % for Giral units 1&2.

1.37 For FY 2018-19, GCV of lignite has been considered 3170 kcal/Kg, the price of lignite Rs. 1344.37 per MT, GCV of secondary fuel (LDO) has been considered as 10600 kCal/Ltr, Price of Oil has been taken as Rs. 33395.81 /KL and Price of Lime has been taken Rs 749.68 per MT as per last receipt at GLPL Barmer in the format 5.1 of month of Jan 2016.

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

Table 16: Variable Cost for Unit 1&2 (Rs. in Crores)

Particulars	Units	FY 2016-17 Actual	FY 2017-18 (Estimated for Jan 18 to March 18)	FY 2018-19 Estimated
Operational Parameters				
Total Capacity	MW	250	250	250
Availability	%	0.00	80.00%	80.00%
PLF	%	0.00%	19.73%	80.00%
Gross Generation	MU	0.00	432.00	1752
Auxiliary Energy Consumption	%	0.00	11.50%	11.50%
Auxiliary Energy Consumption	MU	5.45	49.68	201.48
Net Generation	MU	-5.45	382.32	1550.52
Heat Rate	kcal/kWh	0.00	2449.50	2449.50
Fuel Parameters (for each primary and secondary fuel)				
Gross Calorific Value				
Fuel 1 (Lignite COAL)	kcal/kg	0	3170	3170
Fuel 2 (LDO)	kcal/ltr	0	10600	10600
Fuel 3 (LIME)	kcal/unit			
Landed Fuel Price per unit				
Fuel 1 (Lignite COAL)	Rs./MT	0.00	1344.37	1344.37
Fuel 2 (LDO)	Rs./KL	0.00	33395.81	33395.81
Fuel 3 (LIME)	Rs./MT	0.00	749.68	749.68
Fuel Consumption and Heat Contribution				
Specific Fuel Consumption				
Fuel 1 (Lignite COAL)	kg/kWh	0.00	0.77	0.77
Fuel 2 (LDO)	ml/kWh	0.00	1.00	1.00
Fuel 3 (LIME)	kg/kWh	0.00	0.19	0.19
Total Fuel Consumption				
Fuel 1 (Lignite COAL)	MT	0.00	332367.44	1347934.64
Fuel 2 (LDO)	KL	0.00	432.00	1752.00
Fuel 3 (LIME)	MT	0.00	80964.71	328356.88
Heat Content				
Fuel 1 (Lignite COAL)	Million kcal	0.00	1053604.80	1812122.89
Fuel 2 (LDO)	Million kcal	0.00	4579.20	18571.20
Fuel 3 (LIME)	0	0		0
Total Fuel Cost				
Fuel 1 (Lignite COAL)	Rs Crore	0.00	44.68	181.21
Fuel 2 (LDO)	Rs Crore	0.00	1.44	5.85
Fuel 3 (LIME)	Rs Crore	0.00	6.07	24.62
Total Fuel Cost	Rs Crore	0.00	52.19	211.68
Cost of Generation per unit (at Generation Terminal) (7/1.4)				
	Rs/kWh	0.000	1.208	1.208

Energy Charge per unit (ex-bus) (7/1.7)				
Fuel 1 (Lignite COAL)	Rs/kWh	0.000	1.169	1.169
Fuel 2 (LDO)	Rs/kWh	0.000	0.038	0.038
Fuel 3 (LIME)	Rs/kWh	0.000	0.159	0.159
Total---(9)	Rs/kWh	0.000	1.365	1.365

A6: ESTIMATED ARR FOR GIRAL UNIT 1&2

1.39 The recovery of ARR proposed for Giral is summarised in table below

Table 17: ARR for Giral Unit 1&2 (Rs. in Crores)

Particular	FY 2016-17 Actual	FY 2016-17	FY 2018-19 (Estimated)
Capacity (Fixed Charges)	247.47	292.50	290.47
Variable Cost	0.00	52.19	211.68
Aggregate Revenue Requirement	247.47	344.69	502.15

A7: GIRAL ESTIMATED TARIFF

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

Table 18: Giral Estimated Tariff 1&2 (Rs. in Crores)

Station	FY 2016-17 Actual	FY 2016-17	FY 2018-19 (Estimated)
Ex-Bus Generation (MU)	-5.45	382.32	1550.52
Capacity(fixed) Charges	247.47	292.50	290.47
Variable Cost	0.00	52.19	211.68
Rate of Fixed Charge(Rs/kWh)	-454.380	7.651	1.873
Rate of Variable Charge(Rs/kWh)	0.000	1.365	1.365
Rate of Sale of Energy (Rs/kWh)	-454.380	9.016	3.239

A8: FUEL COST ADJUSTMENT

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

A9: RESPONDENTS:-

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

A10: PRAYER

1.43 GLPL humbly requests the Hon'ble Commission to:

- ◆ Approval of ARR & Tariff for FY-2018-19.
- ◆ To allow provisional Tariff w.e.f. 01.04.18 for FY 2018-19 Till final tariff order is issued as proposed in the petition
- ◆ To consider the deviations as proposed while determining the ARR and Tariff
- ◆ To condone any inadvertent omissions/errors/rounding off differences/shortcomings and permit the Petitioner to add/alter this filing and make further submissions as may be required by the Hon'ble Commission; and
- ◆ And pass such other further orders as are deemed fit and proper in the facts and circumstances of the case

(Amar Jeet Singh)
Senior Accounts Officer (GLPL)
GLPL, Barmer.

(Rakesh Verma)
Managing Director,
GLPL, Barmer.

Summary of Tariff Proposal

Name of the Petitioner

GLPL

Name of the Power Station / Unit :

Giral Unit 1&2

S.No.	Particulars	Ref.of Form No	FY 2016-17 Actual	FY 2017-18 (Estimated)	FY 2018-19 (Estimated)	Remark
1	2	3	4	7	9	10
1	Capacity (Fixed) Charge					
1.1	Depreciation	6.1	84.14	84.06	84.06	
1.2	Interest on term Loan & Finance charges	6.2	94.24	84.80	75.59	
1.3	Return on Equity	6.9	50.71	50.66	50.66	
1..4	Interest on Working Capital	6.11	5.85	7.59	11.06	
1.5	O & M Expenses	4.1	11.47	64.62	68.29	
1.6	Insurance Charges	6.12	1.15	1.20	1.26	
1.7	Tax on ROE	6.13	0.00	0.00	0.00	
1.8	ARR and Tariff Petition Fee		0.19	0.13	0.13	
1.9	Less: Non-Tariff income	3.2	0.28	0.37	0.39	
1	Total- Capacity (Fixed Charges)		247.47	292.50	290.47	
2	Total- Energy (variable) charges		0.00	52.19	211.68	
3	Units sold to Discoms (MU)		-5.45	382.32	1550.52	
4	Rate of Fixed Charges. (1/3)		0.000	7.651	1.873	
5	Rate of Variable Charges.		0.000	1.365	0.000	
5.1	Rate of Energy Charge from Primary Fuel (REC) _p	5.1				
	(i) Coal/ Lignite		0.000	0.000	1.169	
	(ii) Imported Coal					
	(iii) Any Other fuel		0.000	0.000	0.159	
	Total 2.1					
5.2	Rate of Energy Charge from Secondary Fuel (REC) _s	5.1	0.000	0.000	0.038	
5.3	Total-(2) Rate of Energy Charge ex-bus(REC) ^{3A,3B,3C}	5.1	0.000	7.651	3.239	

¹ Details of calculations to be furnished.

^{3A} The rate of energy charge shall be computed for open cycle operation and combined cycle operation separately in case of gas/liquid fuel fired plants.

^{3B} The total energy charge shall be worked out based on ex-bus energy scheduled to be sent out in case of plants covered by ABT, and ex-bus energy delivered in case of plants not covered by ABT, as the case may be. Provided that if the State ABT is not in operation, energy delivered (ex-bus) shall be considered in case of

^{3C} Any escalation in fuel cost to be considered for subsequent years or FPA to take care of the escalation.

Form G 1.2

Aggregate Revenue Requirement

Name of the Petitioner

GLPL

Name of the Power Station/ Unit:

Giral unit 1&2

(Rs. Crore)

S.No.	Particulars	Reference Form	FY 2016-17 Actual	FY 2017-18 (Estimated)	FY 2018-19 Estimated	Remarks
1	2	3	4	7	9	10
A	Receipts					
1	Revenue from Sale of Power (Tariff income)	3.1	247.47	344.69	502.15	
2	Non Tariff income		0.28	0.37	0.39	
3	Revenue Subsidies, Grants & Subvention from State Govt.					
	Total- (A)		247.74	345.06	502.54	
B	Expenditure					
1	Variable Costs, including Fuel Cost	5.1	0.00	52.19	211.68	
2	Depreciation	6.1	84.14	84.06	84.06	
3	Interest on term Loan & Finance charges	6.2	94.24	84.80	75.59	
4	Return on Equity	6.9	50.71	50.66	50.66	
5	Tax on ROE	6.15	0.00	0.00	0.00	
6	Interest on Working Capital	6.11	5.85	7.59	11.06	
7	O & M Expenses	4.1	11.47	64.62	68.29	
8	Insurance Charges	6.14	1.15	1.20	1.26	
9	ARR and Tariff Petition Fee		0.19	0.13	0.13	
C	Total- (B) Expenditure		247.74	345.06	502.54	
D	A.R.R. (C-A.2)		247.47	344.69	502.15	

Plant Characteristics

Name of the Petitioner	GLPL					
Name of the Power Station/Unit:	Giral Unit 1 &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	Unit number					
	1	2	3	4	5	6 & so on
Installed Capacity (IC)	125 MW	125 MW				
Date of Commercial Operation (COD)	18.10.2011	12.03.2011				
Type of cooling system ⁶	CLOSED CKT	CLOSED CKT				
Type of Boiler Feed Pump ⁷	MOTOR DRIVEN	MOTOR DRIVEN				
Pressure (kg/ cm2)	131	131				
Temperature 0C						
-At Superheater Outlet	540	540				
-At Reheater Outlet	540	540				
Turbine Cycle heat Rate(Kcal/ Kwh)						
Boiler Efficiency (%)						
Guaranteed Design Heat rate (kCal/kWh) ⁸	2483.9	2483.9				
Conditions on which guaranteed						
% MCR						
% Makeup						
Design Fuel						
Design cooling water Temperature						
Back Pressure						

¹ Describe the basic characteristics of the plant, e.g., in the case of a coal based plant whether it is a conventional steam generator or circulating fluidized bed combustion generator or sub-critical once through steam generator etc.

² Any site specific feature such as Merry-Go-Round, Vicinity to sea, Intake / makeup water systems etc. scrubbers etc. Specify all such features.

³ Any Special Technological feature like Advanced class FA technology in Gas Turbines, etc.

⁴ Environmental regulation related features like FGD, ESP etc.

⁵ Coal or natural gas or naphtha or lignite etc.

⁶ Closed circuit cooling, once through cooling, sea cooling etc.

⁷ Motor driven, Steam turbine driven etc.

⁸ In case guaranteed unit heat rate is not available then furnish the guaranteed turbine cycle heat rate and guaranteed boiler efficiency separately along with condition of guarantee.

Form G 2.2

Operational Parameters - Generation

Name of Petitioner
Name of the Station/Unit:

GLPL
Giral unit 1&2

S. No.	Particulars	Units	FY 2015-16 Actual	FY 2016-17 (Estimated)	FY 2017-18 Estimated	Remarks
1	2	3	4	5	6	7
1	Operational Parameters - Hydel					
2	Operational Parameters - Thermal					
2.1	Total Capacity	MW	250.00	250.00	250.00	
2.2	Availability	%	0.00	80.00%	80.00%	
2.3	Plant Load Factor	%	0.00	19.73%	80.00%	
2.4	Gross Generation	MU	0.00	432.00	1752.00	
2.5	Auxiliary Energy Consumption	%	0.00	11.50%	11.50%	
2.6	Auxiliary Energy Consumption	MU	5.45	49.68	201.48	
2.7	Net Generation	MU	-5.45	382.32	1550.52	
2.6	Heat Rate	Kcal/ Kwh	0.00	2449.50	2449.50	

Revenue from Sale of Power

Name of the Company
Name of the Power Station :

GPLL
Giral unit 1&2

FY 2016-17

Rs. Crore										
S.No.	Particulars	Allocation (in %) /contract demand	Unit Sold (M.U.)	% of total Unit Sold	Demand/fixed Charges @	Energy Charges @	Others, if any	Total (6+7+8)	Average' rate/kWh (paisa/kWh)	Remarks
1	2	3	4	5	6	7	8	9	10	11
A)	Revenue from sale of Electricity(as per approved tariff)									
1	Dist.Licensee/ trader/ consumers									
(a)	JVVNL		-2.18	40.0%	98.99	0.00		98.99	-454.380	
(b)	AVVNL		-1.52	28.0%	69.29	0.00		69.29	-454.380	
(c)	JDVVNL		-1.74	32.0%	79.19	0.00		79.19	-454.380	
2	Other recoveries									
6	Net revenue		-5.45		247.47	0.00		247.47		

FY 2017-18

Rs. Crore										
S.No.	Particulars	Allocation (in %) /contract demand	Unit Sold (M.U.)	% of total Unit Sold	Demand/fixed Charges @	Energy Charges @	Others, if any	Total (6+7+8)	Average' rate/kWh (paisa/kWh)	Remarks
1	2	3	4	5	6	7	8	9	10	11
A)	Revenue from sale of Electricity(as per approved tariff)									
1	Dist.Licensee/ trader/ consumers									
(a)	JVVNL		152.93	40.0%	117.00	20.88		137.88	9.016	
(b)	AVVNL		107.05	28.0%	81.90	14.61		96.51	9.016	
(c)	JDVVNL		122.34	32.0%	93.60	16.70		110.30	9.016	
2	Other recoveries									
6	Net revenue		382.32		292.50	52.19		344.69		

FY 2018-19

Rs. Crore										
S.No.	Particulars	Allocation (in %) /contract demand	Unit Sold (M.U.)	% of total Unit Sold	Demand/fixed Charges @	Energy Charges @	Others, if any	Total (6+7+8)	Average' rate/kWh (paisa/kWh)	Remarks
1	2	3	4	5	6	7	8	9	10	11
A)	Revenue from sale of Electricity(as per approved tariff)									
1	Dist.Licensee/ trader/ consumers									
(a)	JVVNL		152.93	40.0%	117.00	20.88		137.88	9.016	
(b)	AVVNL		107.05	28.0%	81.90	14.61		96.51	9.016	
(c)	JDVVNL		122.34	32.0%	93.60	16.70		110.30	9.016	
2	Other recoveries									
6	Net revenue		1550.52		290.47	211.68		344.69		

NON-TARIFF INCOME

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

GLPL
Giral unit 1&2

Rs. Crore

S.No	Particulars	FY 2016-17 Actual		FY 2017-18 (Estimated)		FY 2018-19 Estimated		Remarks
		Unit1	Unit2	Unit1	Unit2	Unit1	Unit2	
1	2							
	Non-tariff income							
iv.	Income from rent on land/ building	0.010	0.010	0.02	0.01	0.02	0.01	
v.	Income from sale of scrap	0.000	0.000	0.00	0.00	0.00	0.00	
xi.	Other miscellaneous receipts	0.128	0.128	0.21	0.13	0.22	0.14	
	Total non-tariff income	0.14	0.14	0.22	0.15	0.23	0.15	

REVENUE SUBSIDIES & GRANTS

Name of the Petitioner:

GLPL

Name of the Power Station/Unit :

Giral unit 1&2

S. No.	Particulars	FY 2016-17 Actual	FY 2017-18 (Estimated)	FY 2018-19 Estimated	Remarks
1	2	3	6	7	8
A)	Revenue Subsidies & Grants	NIL			
1	Subvention from State Government towards sale of electricity				
2	State Govt. Grant against addl. Intt. Liability on Company				
3	Any Other item				
	Total				

Capital Subsidies and Grants

Name of the Petitioner:

Name of the Power Station/Unit :1&2

Rs. Crore

S. No.	Particulars	FY 2016-17 Actual	FY 2017-18 (Estimated)	FY 2018-19 Estimated	Remarks
1	2	3	6	7	8
A	Capital Cost	NIL			
	Subsidy towards cost of Capitals Asset				
	Grant towards cost of Capitals Assets				
	Receipts from State Govt. under any scheme as grant/subsidy				
	Total				

Form G 4.1

O&M Expenses

Name of the Petitioner:

GLPL

Name of the Station/Unit:

Giral unit 1&2

S.No.	Particulars	FY 2016-17 Actual		FY 2017-18 (Estimated)		FY 2018-19 Estimated	
		Unit 1	Unit 2	Unit 1	Unit 2	Unit 1	Unit 2
1	O&M Expense norms (Rs. per MW)	0.24	0.24	0.25	0.25	0.27	0.27
2	Total Capacity in MW	125.00	125.00	125.00	125.00	125.00	125.00
3	O&M expense	4.79	4.79	31.37	31.37	33.20	33.20
4	Special O&M expense for Water pipe lines>50 km						
a	Details of Water pumping Stations beyond 50 K.M. from Water intake point						
b	<u>Pumping Station</u>						
b.1	Expense for Man-Power engaged for operation & maintenance for pumping stations	0.00	0.00	0.00	0.00	0.00	0.00
b.2	Expense for maintenance of Raw water pipe line	0.00	0.00	0.00	0.00	0.00	0.00
b.3	Expenses for Spares & Lubrications for R&M of pumping stations	0.00	0.00	0.00	0.00	0.00	0.00
b.4	Expenses for Electricity Consumption of pumping stations (Rs.)	0.00	0.00	0.94	0.94	0.94	0.94
d	Total (4) Special O&M Expenses	0.94	0.94	0.94	0.94	0.94	0.94
5	Total O&M expenses	5.73	5.73	32.31	32.31	34.15	34.15

Form G 5.1 For (Unit-2)														
Details/Information to be Submitted in respect of Fuel for Computation of Energy Charges1 for FPA														
YEAR 2015-16														
Name of the Company:- GIRAL LIGNITE POWER LIMITED, BARMER.														
Name of the Power Station:-GIRAL LIGNITE THERMAL POWER PROJECT.														
S.No	Month	Unit	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
	2		LDO	LDO	LDO	LDO	LDO	LDO	LDO	LDO	LDO	LDO	LDO	LDO
1	Quantity of LDO/LDO instock at the beginning of the month	(KL)	44	39.00	56	38	33.00	23	37	25.00	45	65	55	55
2	Quantity of LDO/LDO supplied by LDO/LDO Company	(KL)	0	44	0	16	48	64	32	32	48	32	0	0
3	Adjustment (+/-) in quantity supplied made by LDO/LDO Company for diversion of wagons etc.	(KL)	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
4	LDO supplied by LDO/LDO Company (2+3)	(KL)	0	44	0	16	48	64	32	32	48	32	0	0
5	Normative Transit & Handling Losses (For LDO/Lignite based Projects)	(KL)	Nil, as Power Plant at the head.	Nil, as Power Plant at the head.		Nil, as Power Plant at the head.	Nil, as Power Plant at the head.		Nil, as Power Plant at the head.	Nil, as Power Plant at the head.		Nil, as Power Plant at the head.	Nil, as Power Plant at the head.	
6	Net LDO / LDO Supplied (4-5)	(KL)	0	44	0	16	48	64	32	32	48	32	0	0
7	Total LDO (Receipts & Opening Stock) (1)+(6)	(KL)	44	83.00	56	54	81.00	87	69	57.00	93	97	55.00	55
8	LDO/LDO burnt/consumed	(KL)	5	27	18	21	58	50	44	12	28	42	0	0
9	LDO/LDO in stock at the end of the month	(KL)	39	56	38	33	23	37	25	45	65	55	55	55
10	Value of LDO/LDO in stock	(Rs.)	2182075.28	1934111.79	2717377.6	1843934.8	1564755.06	979152.09	1416972.72	951397	1674837	2334935.85	1836769.55	1836769.55
11	Amount charged by the LDO /LDO Company	(Rs.)	0	2093429.36	0	716573.44	1883562.72	2352648.56	1208882.88	1170062.72	1665917.28	904457.92	0	0
12	Adjustment (+/-) in amount charged made by LDO/LDO Company	(Rs.)	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
13	Total amount Charged (11+12)	(Rs.)	0	2093429.36	0	716573.44	1883562.72	2352648.56	1208882.88	1170062.72	1665917.28	904457.92	0	0
14	Transportation charges by rail/ship/road transport	(Rs.)	Transportation charges included	Transportation charges included		Transportation charges included	Transportation charges included		Transportation charges included	Transportation charges included		Transportation charges included	Transportation charges included	
15	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
16	Demurrage Charges, if any	(Rs.)	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
17	Cost of diesel in transporting LDO through MGR system, if applicable	(Rs.)	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
18	Total Transportation Charges (14+/-15-16+17)	(Rs.)	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
19	Total amount Charged for LDO/LDO supplied including Transportation (13+18)	(Rs.)	2182075.28	4027541.15	2717377.6	2560508.24	3448317.78	3331800.65	2625855.6	2121459.72	3340754.28	3239393.77	1836769.55	1836769.55
20	Average cost of LDO/LDO (Opening stock + receipts) (19/7)	(Rs/KL)	49592.62	48524.59	48524.60	47416.82	42571.82	38296.56	38055.88	37218.59	35922.09	33395.81	33395.81	33395.81
21	Cost of LDO in stock at the end of the month (20)x(9)	(Rs.)	1934112.18	2717377.161	1843934.8	1564755.036	979151.9622	1416972.69	951396.9565	1674836.621	2334935.787	1836769.663	1836769.55	1836769.55
22	Cost of LDO in Burnt/Consumed during the month (20)x(8)	(Rs.)	247963.1	1310163.99	873442.8	995753.204	2469165.82	1914827.96	1674458.64	446623.099	1005818.49	1402624.11	0	0
23	Weighted average GCV of LDO/ LDO as fired	(kCal/Kg)	10600	10600	10600	10600	10600	10600	10600	10600	10600	10600	0	0

Note:-1 Similar details to be furnished for natural gas/liquid fuel for CCGT station and secondary fuel oil for LDO/LDO based thermal plants

Note:- Qty. Balance & Qty. Received Column No. 01 & 04 is total Qty of Both Unit =1 & Unit=2

Form G 5.1 For (Unit-2)

Details/Information to be Submitted in respect of Fuel for Computation of Energy Charges¹ for FPA

YEAR 2015-16

Name of the Company:- GIRAL LIGNITE POWER LIMITED, BARMER.

Name of the Power Station:-GIRAL LIGNITE THERMAL POWER PROJECT.

S.No	Month	Unit	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
			Lignite	Lignite	Lignite	Lignite	Lignite	Lignite	Lignite	Lignite	Lignite	Lignite	Lignite	Lignite
	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	Quantity of coal/lignite instock at the beginning of the month	(MMT)	63084.82	35871.73	57843.90	22738.75	31913.49	24244.21	7512.12	22689.94	35027.56	26137.93	11957.67	11957.67
2	Quantity of Coal/Lignite supplied by Coal/Lignite Company	(MMT)	45658.85	34628.64	29508.83	35552.74	24780.73	7190.91	62765.92	25517.22	12689.07	4177.64	0	0
3	Adjustment (+/-) in quantity supplied made by Coal/Lignite Company for diversion of wagons etc.	(MMT)	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
4	Coal supplied by Coal/Lignite Company (2+3)	(MMT)	45658.85	34628.64	29508.83	35552.74	24780.73	7190.91	62765.92	25517.22	12689.07	4177.64	0	0
5	Normative Transit & Handling Losses (For coal/Lignite based Projects)	(MMT)	Nil, as Power Plant at the head.	Nil, as Power Plant at the head.	Nil, as Power Plant at the head.	Nil, as Power Plant at the head.	Nil, as Power Plant at the head.	Nil, as Power Plant at the head.	Nil, as Power Plant at the head.	Nil, as Power Plant at the head.	Nil, as Power Plant at the head.	Nil, as Power Plant at the head.	Nil, as Power Plant at the head.	Nil, as Power Plant at the head.
6	Net coal / Lignite Supplied (4-5)	(MMT)	45658.85	34628.64	29508.83	35552.74	24780.73	7190.91	62765.92	25517.22	12689.07	4177.64	0	0
7	Total coal (Receipts & Opening Stock) (1)+(6)	(MMT)	108743.67	70500.37	87352.73	58291.49	56694.22	31435.12	70278.04	48207.16	47716.63	30315.57	11957.67	11957.67
8	coal/lignite burnt/consumed	(MMT)	72871.94	12656.47	64613.98	26378.00	32450.01	23923.00	47588.10	13179.60	21578.70	18357.90	0.00	0.00
9	Coal/lignite in stock at the end of the month	(MMT)	35871.73	57843.90	22738.75	31913.49	24244.21	7512.12	22689.94	35027.56	26137.93	11957.67	11957.67	11957.67
10	Value of coal/lignite in stock	(Rs.)	70545224.5	43849566.88	75326027.19	30060868.53	43231162.44	32806198.23	10104124.42	30189350.9	46988420.91	35012279.99	16075532.82	16071108.48
11	Amount charged by the Coal/Lignite Company	(Rs.)	62322960.48	47956857.25	40154730.6	48902438.34	33484961.41	9475534.016	83402099.18	34478867.66	16929059.3	5743168.814	0	0
12	Adjustment (+/-) in amount charged made by Coal/Lignite Company	(Rs.)	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
13	Total amount Charged (11+12)	(Rs.)	62322960.48	47956857.25	40154730.6	48902438.34	33484961.41	9475534.016	83402099.18	34478867.66	16929059.3	5743168.814	0	0
14	Transportation charges by rail/ship/road transport	(Rs.)	Transportation charges included	Transportation charges included	Transportation charges included	Transportation charges included	Transportation charges included	Transportation charges included	Transportation charges included	Transportation charges included	Transportation charges included	Transportation charges included	Transportation charges included	Transportation charges included
15	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
16	Demurrage Charges, if any	(Rs.)	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
17	Cost of diesel in transporting coal through MGR system, if applicable	(Rs.)	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
18	Total Transportation Charges (14+/-15-16+17)	(Rs.)	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
19	Total amount Charged for coal/lignite supplied including Transportation (13+18)	(Rs.)	132868185	91806424.13	115480757.8	78963306.87	76716123.85	42281732.24	93506223.6	64668218.56	63917480.21	40755448.81	16075532.82	16071108.48
20	Average cost of coal/lignite (Opening stock + receipts) (19/7)	(Rs/MMT)	1221.85	1302.21	1322.01	1354.63	1353.16	1345.05	1330.52	1341.47	1339.52	1344.37	1344.37	1344.00
21	Cost of coal in stock at the end of the month (20)x(9)	(Rs.)	43829784.83	75325017.68	30060744.31	43230919.37	32806198.18	10104158.86	30189382.1	46988246.26	35012334.77	16075574.62	16075532.82	16071108.48
22	Cost of coal in Burned in the month (20)x(9)	(Rs.)	89038400.16	16481406.45	85420013.48	35732387.5	43909925.67	32177573.38	63316841.49	17679972.3	28905145.44	24679874.19	0	0
22	Weighted average GCV of coal/ Lignite as fired	(KCal/Kg)	3003	2951	2993	3007	3075	2990	2995	3016	2995	3170	0	0
23	Weighted average Moisture content	(%)	31.09	31.2	30.03	30.08	31.26	29.18	32.3	32.93	32.5	32.48	0	0
24	Sulphur Content	%	4.42	4.29	4.40	4.33	4.60	4.41	4.31	4.17	4.00	4.35	0.00	0.00

Note:- 1 Similar details to be furnished for natural gas/liquid fuel for CCGT station and secondary fuel oil for coal/lignite based thermal plants

Form G 5.1 For (Unit-2)														
Details/Information to be Submitted in respect of Fuel for Computation of Energy Charges ¹ for FPA														
YEAR 2015-16														
Name of the Company:- GIRAL Lime POWER LIMITED, BARMER.														
Name of the Power Station:-GIRAL Lime THERMAL POWER PROJECT.														
S.No	Month	Unit	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
	2	3	Lime	Lime	Lime	Lime	Lime	Lime	Lime	Lime	Lime	Lime	Lime	Lime
1	Quantity of Lime/Lime instock at the beginning of the month	(MMT)	1540.65	555.15	366.15	78.15	78.15	78.15	78.15	78.15	78.15	78.15	2074.44	2074.44
2	Quantity of Lime/Lime supplied by Lime/Lime Company	(MMT)	0	0	0	0	0	0	0	0	0	1996.29	0	0
3	Adjustment (+/-) in quantity supplied made by Lime/Lime Company for diversion of wagons etc.	(MMT)	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
4	Lime supplied by Lime/Lime Company (2+3)	(MMT)	0	0	0	0	0	0	0	0	0	1996.29	0	0
5	Normative Transit & Handling Losses (For Lime/Lignite based Projects)	(MMT)	Nil, as Power Plant at the head.	Nil, as Power Plant at the head.		Nil, as Power Plant at the head.	Nil, as Power Plant at the head.		Nil, as Power Plant at the head.	Nil, as Power Plant at the head.		Nil, as Power Plant at the head.	Nil, as Power Plant at the head.	
6	Net Lime / Lime Supplied (4-5)	(MMT)	0	0	0	0	0	0	0	0	0	1996.29	0	0
7	Total Lime (Receipts & Opening Stock) (1)+(6)	(MMT)	1540.65	555.15	366.15	78.15	78.15	78.15	78.15	78.15	78.15	2074.44	2074.44	2074.44
8	Lime/Lime burnt/consumed	(MMT)	985.50	189.00	288	0	0	0	0	0	0	0	0	0
9	Lime/Lime in stock at the end of the month	(MMT)	555.15	366.15	78.15	78.15	78.15	78.15	78.15	78.15	78.15	2074.44	2074.44	2074.44
10	Value of Lime/Lime in stock	(Rs.)	941337.15	339196.65	223717.65	47749.65	47749.65	47749.65	47749.65	47749.65	47749.65	47749.65	1555166.179	1555166.179
11	Amount charged by the Lime /Lime Company	(Rs.)	0	0	0	0	0	0	0	0	0	1507418.542	0	0
12	Adjustment (+/-) in amount charged made by Lime/Lime Company	(Rs.)	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
13	Total amount Charged (11+12)	(Rs.)	0	0	0	0	0	0	0	0	0	1507418.542	0	0
14	Transportation charges by rail/ship/road transport	(Rs.)	Transportation charges included	Transportation charges included		Transportation charges included	Transportation charges included		Transportation charges included	Transportation charges included		Transportation charges included	Transportation charges included	
15	Adjustment (+/-) in amount charged made by Railways/Transport Company	(Rs.)	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
16	Demurrage Charges, if any	(Rs.)	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
17	Cost of diesel in transporting Lime through MGR system, if applicable	(Rs.)	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
18	Total Transportation Charges (14+/-15-16+17)	(Rs.)	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
19	Total amount Charged for Lime/Lime supplied including Transportation (13+18)	(Rs.)	941337.15	339196.65	223717.65	47749.65	47749.65	47749.65	47749.65	47749.65	47749.65	47749.65	1555168.192	1555166.179
20	Average cost of Lime/Lime (Opening stock + receipts) (19/7)	(Rs./MMT)	611.00	611.00	611.00	611.00	611.00	611.00	611.00	611.00	611.00	749.68	749.68	749.68
21	Cost of Lime in stock at the end of the month (20)x(9)	(Rs.)	339196.65	223717.65	47749.65	47749.65	47749.65	47749.65	47749.65	47749.65	47749.65	1555168.192	1555166.179	1555166.179
22	Weighted average GCV of Lime/ Lime as fired	(kCal/Kg)												
23	Weighted average Sulphur content	(%)												

Note:-1 Similar details to be furnished for natural gas/liquid fuel for CCGT station and secondary fuel oil for Lime/Lime based thermal plants

Form G 5.3

Energy Charges for Lignite Generation

Name of the Petitioner:

Name of the Power Station/Unit:

UNIT 1&2

S.No.	Particulars	Units	FY 2016-17 Actual	FY 2017-18 (Estimated for Jan 18 to March 18)	FY 2018-19 Estimated	Remarks
1	2	3	5	7	9	10
1	Operational Parameters					
1.1	Total Capacity	MW	250	250	250	
1.2	Availability	%	0	80.00%	80.00%	
1.3	PLF	%	0.00%	19.73%	80.00%	
1.4	Gross Generation	MU	0	432.00	1752.00	
1.5	Auxiliary Energy Consumption	%	0.00	11.50%	11.50%	
1.6	Auxiliary Energy Consumption	MU	5.45	49.68	201.48	
1.7	Net Generation	MU	-5.45	382.32	1550.52	
1.8	Heat Rate	kcal/kWh	0	2449.50	2449.50	
2.1	Gross Calorific Value					
2.1.1	Fuel 1 (Lignite COAL)	kcal/kg	0	3170	3170	
2.1.2	Fuel 2 (LDO)	kcal/ltr	0	10600	10600	
2.1.3	Fuel 3 (LIME)	kcal/unit	0	0	0	
2.2	Landed Fuel Price per unit					
2.2.1	Fuel 1 (Lignite COAL)	Rs./MT	0	1344.37	1344.37	
2.2.2	Fuel 2 (LDO)	Rs./KL	0	33395.81	33395.81	
2.2.3	Fuel 3 (LIME)	Rs./MT	0	749.68	749.68	
3	Fuel Consumption and Heat Contribution					
3.1	Specific Fuel Consumption					
3.1.1	Fuel 1 (Lignite COAL)	kg/kWh	0	0.77	0.77	
3.1.2	Fuel 2 (LDO)	ml/kWh	0.00	1.00	1.00	
3.1.3	Fuel 3 (LIME)	kg/kWh	0	0.19	0.19	
3.2	Total Fuel Consumption					
3.2.1	Fuel 1 (Lignite COAL)	MT	0	332367.44	1347934.64	
3.2.2	Fuel 2 (LDO)	KL	0	432.00	1752.00	
3.2.3	Fuel 3 (LIME)	MT	0.00	80964.71	328356.88	
3.3	Heat Content					
3.3.1	Fuel 1 (Lignite COAL)	Million kcal	0	1053604.80	1812122.89	
3.3.2	Fuel 2 (LDO)	Million kcal	0	4579.20	18571.20	
3.3.3	Fuel 3 (LIME)					
4	Total Fuel Cost					
4.1.1	Fuel 1 (Lignite COAL)	Rs Crore	0.00	44.68	181.21	
4.1.2	Fuel 2 (LDO)	Rs Crore	0.00	1.44	5.85	
4.1.3	Fuel 3 (LIME)	Rs Crore	0.00	6.07	24.62	
	Total Fuel Cost	Rs Crore	0.00	52.19	211.68	
5	Details of limestone consumption (Applicable for Lignite based generating stations)					
6	Other Charges and Adjustments					
	Total Other Charges and Adjustments	Rs Crore				
7	Total Cost (4+5+6)	Rs Crore	0.00	52.19	211.68	
8	Cost of Generation per unit (at Generation Terminal) (7/1.4)	Rs/kWh	0.000	0.000	1.208	
9	Energy Charge per unit (ex-bus) (7/1.7)					
9.1.1	Fuel 1-----	Rs/kWh	0.000	1.169	1.169	
9.1.2	Fuel 2-----	Rs/kWh	0.000	0.038	0.038	
9.1.3	Fuel 3-----	Rs/kWh	0.000	0.159	0.159	
	Total---(9)	Rs/kWh	0.000	1.365	1.365	

Fixed Assets & Provisions for Depreciation

Name of the Petitioner: GIRAL UNIT 1

Name of the Power Station : Giral unit 1

(Figures in Rs Crore)

FY 2016-17

S.No.	Fixed Assets	Accounting C	Rates	Gross Block				Depreciation				Net Block at March 31,2017	Net Block at March 31,2016
				Balance as at 1st April , 2016	Additon during the year	Adjustment/Deductions	Balance as at 31 st march 2017	Balance as at April , 2016	Additon during the year	Adjustment/Deduction	Balance as at 31 st march 2017		
1	Land & land rights	10.1xx	0	1.74	0.19	0.19	1.75	0.00	0.00	0.00	0.00	1.75	1.74
2	Building & Civil works of Power plant	10.2 xx	3.34	88.67	0.51	0.00	89.19	13.40	2.97	0.00	16.37	72.82	75.28
3	Hydraulic works	10.3xx	5.28	69.08	0.57	0.00	69.65	16.24	3.66	0.00	19.91	49.74	52.84
4	Plant & machinery	10.5xx	5.28	617.04	0.24	0.14	617.14	145.04	32.58	0.00	177.62	439.52	472.00
5	Lines and Cable Networks	10.6 xx	5.28	0.47	0.00	0.00	0.47	0.11	0.03	0.00	0.14	0.34	0.36
6	Vehicles	10.7xx	6.33	0.17	0.00	0.00	0.17	0.05	0.01	0.00	0.06	0.10	0.11
7	Furniture & fixtures	10.8 xx	6.33	0.38	0.00	0.00	0.38	0.11	0.02	0.00	0.13	0.25	0.27
8	Office Equipments	10.9xx	6.33	0.18	0.00	0.00	0.18	0.04	0.01	0.00	0.05	0.12	0.13
9	Capital spares	11.3 xx	5.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total (7+8)			777.73	1.51	0.33	778.91	174.99	39.29	0.00	214.28	564.63	602.74

2017-18

S.No.	Fixed Assets	Accounting C	Rates	Gross Block				Depreciation				Net Block at March 31,2018	Net Block at March 31,2017
				Balance as at April , 2017	Additon during the year	Adjustment/Deductions	Balance as at 31 st march 2018	Balance as at April , 2017	Additon during the year	Adjustment/Deduction	Balance as at 31 st march 2018		
1	Land & land rights	10.1xx	0	1.75	0.00	0.00	1.75	0.00	0.00	0.00	0.00	1.75	1.75
2	Building & Civil works of Power plant	10.2 xx	3.34	89.19	0.00	0.00	89.19	16.37	2.98	0.00	19.34	69.84	72.82
3	Hydraulic works	10.3xx	5.28	69.65	0.00	0.00	69.65	19.91	3.68	0.00	23.58	46.06	49.74
4	Plant & machinery	10.5xx	5.28	617.14	0.00	0.00	617.14	177.62	32.58	0.00	210.21	406.93	439.52
5	Lines and Cable Networks	10.6 xx	5.28	0.47	0.00	0.00	0.47	0.14	0.03	0.00	0.16	0.31	0.34
6	Vehicles	10.7xx	6.33	0.17	0.00	0.00	0.17	0.06	0.01	0.00	0.08	0.09	0.10
7	Furniture & fixtures	10.8 xx	6.33	0.38	0.00	0.00	0.38	0.13	0.02	0.00	0.16	0.22	0.25
8	Office Equipments	10.9xx	6.33	0.18	0.00	0.00	0.18	0.05	0.01	0.00	0.06	0.11	0.12
9	Capital spares	11.3 xx	5.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total (7+8)			778.91	0.00	0.00	778.91	214.28	39.31	0.00	253.59	525.32	564.63

2018-19

S.No.	Fixed Assets	Accounting C	Rates	Gross Block				Depreciation				Net Block at March 31,2018	Net Block at March 31,2017
				Balance as at April , 2017	Additon during the year	Adjustment/Deductions	Balance as at 31 st march 2018	Balance as at April , 2017	Additon during the year	Adjustment/Deduction	Balance as at 31 st march 2018		
1	Land & land rights	10.1xx	0	1.75	0.00	0.00	1.75	0.00	0.00	0.00	0.00	1.75	1.75
2	Building & Civil works of Power plant	10.2 xx	3.34	89.19	0.00	0.00	89.19	19.34	2.98	0.00	22.32	66.86	69.84
3	Hydraulic works	10.3xx	5.28	69.65	0.00	0.00	69.65	23.58	3.68	0.00	27.26	42.39	46.06
4	Plant & machinery	10.5xx	5.28	617.14	0.00	0.00	617.14	210.21	32.58	0.00	242.79	374.35	406.93
5	Lines and Cable Networks	10.6 xx	5.28	0.47	0.00	0.00	0.47	0.16	0.03	0.00	0.19	0.29	0.31
6	Vehicles	10.7xx	6.33	0.17	0.00	0.00	0.17	0.08	0.01	0.00	0.09	0.08	0.09
7	Furniture & fixtures	10.8 xx	6.33	0.38	0.00	0.00	0.38	0.16	0.02	0.00	0.18	0.20	0.22
8	Office Equipments	10.9xx	6.33	0.18	0.00	0.00	0.18	0.06	0.01	0.00	0.08	0.10	0.11
9	Capital spares	11.3 xx	5.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total (7+8)			778.91	0.00	0.00	778.91	253.59	39.31	0.00	292.90	486.01	525.32

FY 2016-17

S.No.	Fixed Assets	Accounting C	Rates	Gross Block				Depreciation				Net Bloc k at March 31,2017	Net Bloc k at March 31,2016
				Balance as at April , 2016	Additon during the year	Adjustment/De duction	Balance as at 31 st march 2017	Balance as at April , 2016	Additon during the year	Adjustment/Ded uction	Balance as at 31 st march 2017		
1	Land & land rights	10.1	0	0.02	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.02	0.02
2	Building & Civil works of Power plant	10.2	3.34	1.96	0.07	0.00	2.03	0.33	0.07	0.00	0.40	1.63	1.63
3	Hydraulic works	10.3	5.28	29.74	0.07	0.00	29.81	7.93	1.57	0.00	9.51	20.30	21.80
4	Other Civil works	10.5	3.34	0.34	0.00	0.00	0.34	0.06	0.01	0.00	0.07	0.27	0.28
5	Plant & machinery	10.6	5.28	803.71	0.00	4.42	799.29	213.48	42.32	0.00	255.80	543.49	590.24
6	Lines and Cable Networks	10.7	5.28	16.76	0.00	0.00	16.76	4.47	0.88	0.00	5.36	11.40	12.29
7	Vehicles	10.8	9.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	Furniture & fixtures	10.9	6.33	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.01
9	Office Equipments	0	6.33	0.04	0.00	0.00	0.04	0.01	0.00	0.00	0.02	0.02	0.03
10	Capital spares	0	5.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total (7+8)			852.59	0.13	4.42	848.29	226.28	44.86	0.00	271.14	577.15	626.30

FY 2017-18

S.No.	Fixed Assets	Accounting C	Rates	Gross Block				Depreciation				Net Bloc k at March 31,2018	Net Bloc k at March 31,2017
				Balance as at April , 2017	Additon during the year	Adjustment/De duction	Balance as at 31 st march 2018	Balance as at April , 2017	Additon during the year	Adjustment/Ded uction	Balance as at 31 st march 2018		
1	Land & land rights	10.1	0	0.02	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.02	0.02
2	Building & Civil works of Power plant	10.2	3.34	2.03	0.00	0.00	2.03	0.40	0.07	0.00	0.47	1.56	1.63
3	Hydraulic works	10.3	5.28	29.81	0.00	0.00	29.81	9.51	1.57	0.00	11.08	18.73	20.30
4	Other Civil works	10.5	3.34	0.34	0.00	0.00	0.34	0.07	0.01	0.00	0.08	0.26	0.27
5	Plant & machinery	10.6	5.28	799.29	0.00	0.00	799.29	255.80	42.20	0.00	298.00	501.29	543.49
6	Lines and Cable Networks	10.7	5.28	16.76	0.00	0.00	16.76	5.36	0.88	0.00	6.24	10.52	11.40
7	Vehicles	10.8	9.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	Furniture & fixtures	10.9	6.33	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.01
9	Office Equipments	0	6.33	0.04	0.00	0.00	0.04	0.02	0.00	0.00	0.02	0.02	0.02
10	Capital spares	0	5.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total (7+8)			848.29	0.00	0.00	848.29	271.14	44.74	0.00	315.89	532.41	577.15

FY 2018-19

S.No.	Fixed Assets	Accounting C	Rates	Gross Block				Depreciation				Net Bloc k at March 31,2018	Net Bloc k at March 31,2017
				Balance as at April , 2017	Additon during the year	Adjustment/De duction	Balance as at 31 st march 2018	Balance as at April , 2017	Additon during the year	Adjustment/Ded uction	Balance as at 31 st march 2018		
1	Land & land rights	10.1	0	0.02	0.00	0.0	0.02	0.00	0.00	0.00	0.00	0.02	0.02
2	Building & Civil works of Power plant	10.2	3.34	2.03	0.00	0.0	2.03	0.47	0.07	0.00	0.53	1.50	1.56
3	Hydraulic works	10.3	5.28	29.81	0.00	0.0	29.81	11.08	1.57	0.00	12.65	17.15	18.73
4	Other Civil works	10.5	3.34	0.34	0.00	0.0	0.34	0.08	0.01	0.00	0.09	0.25	0.26
5	Plant & machinery	10.6	5.28	799.29	0.00	0.0	799.29	298.00	42.20	0.00	340.20	459.09	501.29
6	Lines and Cable Networks	10.7	5.28	16.76	0.00	0.0	16.76	6.24	0.88	0.00	7.13	9.63	10.52
7	Vehicles	10.8	9.5	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	Furniture & fixtures	10.9	6.33	0.01	0.00	0.0	0.01	0.00	0.00	0.00	0.00	0.01	0.01
9	Office Equipments	0	6.33	0.04	0.00	0.0	0.04	0.02	0.00	0.00	0.02	0.02	0.02
10	Capital spares	0	5.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total (7+8)			848.29	0.00	0.00	848.29	315.89	44.74	0.00	360.63	487.67	532.41

LOAN REPAYMENT & INTREST LIABILITY

Name of the Petitioner
Name of the Power Station :

GLPL
GLPL Unit#1

FY 2016-17													Rs. Crore		
S. No.	Source (loan)	Currency	Opening Balance	Anticipated Receipts	Anticipated Repayment	Interest rate		Closing Balance	Average Rate of Interest#	Liability of Interest during	Financial charges	Total interest & finance	Less: Interest charges capitalis	Net interest & finance	
						Fixed	Floating								
1	2	2A	3	4	5	6	7	8	9	10	11	12	13	14	
	Term Loan		451.23	0.95	39.29			412.90	10.91%	47.15	0.10	47.25		47.25	
	Total (for Station)		451.23	0.95	39.29	0.00	0.00	412.90	10.91%	47.15	0.10	47.25	0.00	47.25	

FY 2017-18													Rs. Crore		
S. No.	Source (loan)	Currency	Opening Balance	Anticipated	Anticipated	Interest rate		Closing Balance	Average Rate of	Liability of	Financial charges	Total interest	Less: Interest	Net interest	
						Fixed	Floating								
1	2	2A	3	4	5	6	7	8	9	10	11	12	13	14	
	Term Loan		412.90	0	39.31			373.59	10.91%	42.91	0.10	43.02		43.02	
	Total (for Station)		412.90	0.00	39.31	0.00	0.00	373.59	10.91%	42.91	0.10	43.02	0.00	43.02	

FY 2018-19													Rs. Crore		
S. No.	Source (loan)	Currency	Opening Balance	Anticipated	Anticipated	Interest rate		Closing Balance	Average Rate of	Liability of	Financial charges	Total interest	Less: Interest	Net interest	
						Fixed	Floating								
1	2	2A	3	4	5	6	7	8	9	10	11	12	13	14	
	Term Loan		373.59	0	39.31			334.28	10.91%	38.62	0.10	38.73		38.73	
	Total (for Station)		373.59	0.00	39.31	0.00	0.00	334.28	10.91%	38.62	0.10	38.73	0.00	38.73	

Giral unit 2

F 6.2

FY 2016-17													Rs. Crore		
S. No.	Source (loan)	Currency	Opening Balance	Anticipated	Anticipated	Interest rate		Closing Balance	Average Rate of	Liability of	Financial charges	Total interest	Less: Interest	Net interest	
						Fixed	Floating								
1	2	2A	3	4	5	6	7	8	9	10	11	12	13	14	
	Term Loan		450.49	-3.41	44.86			402.23	11.00%	46.90	0.09	46.99		46.99	
	Total (for Station)		450.49	-3.41	44.86	0.00	0.00	402.23	11.00%	46.90	0.09	46.99	0.00	46.99	

FY 2017-18													Rs. Crore		
S. No.	Source (loan)	Currency	Opening Balance	Anticipated	Anticipated	Interest rate		Closing Balance	Average Rate of	Liability of	Financial charges	Total interest	Less: Interest	Net interest	
						Fixed	Floating								
1	2	2A	3	4	5	6	7	8	9	10	11	12	13	14	
	Term Loan		402.23		44.74			357.49	11.00%	41.78	0.00	41.78		41.78	
	Total (for Station)		402.23	0.00	44.74	0.00	0.00	357.49	11.00%	41.78	0.00	41.78	0.00	41.78	

FY 2018-19													Rs. Crore		
S. No.	Source (loan)	Currency	Opening Balance	Anticipated	Anticipated	Interest rate		Closing Balance	Average Rate of	Liability of	Financial charges	Total interest	Less: Interest	Net interest	
						Fixed	Floating								
1	2	2A	3	4	5	6	7	8	9	10	11	12	13	14	
	Term Loan		357.49		44.74			312.74	11.00%	36.86	0.00	36.86		36.86	
	Total (for Station)		357.49	0.00	44.74	0.00	0.00	312.74	11.00%	36.86	0.00	36.86	0.00	36.86	

Form G 6.3
Details of Project Specific Loans

Name of the Petitioner
Name of the Power Station
Commercial Operation Date

GLPL Unit 1&2

Particulars	Year (n-1)*						Rs. Crore
	Package1	Package2	Package3	Package4	Package5	Package6	
1	2	3	4	5	6	7	
Source of Loan ¹							
Currency ²							
Amount of Loan sanctioned							
Amount of Gross Loan drawn upto previous year/during current/ensuing year/ COD ^{3,4,5,13,15}							
Interest Type ⁶							
Fixed Interest Rate, if applicable							
Base Rate, if Floating Interest ⁷							
Margin, if Floating Interest ⁸	Yes/ No	Yes/ No	Yes/ No	Yes/ No	Yes/ No	Yes/ No	Yes/ No
Are there any Caps/ Floor ⁹							
If above is yes,specify caps/ floor							
Moratorium Period ¹⁰							
Moratorium effective from							
Repayment Period ¹¹							
Repayment effective from							
Repayment Frequency ¹²							
Repayment Instalment ^{13,14}							
Base Exchange Rate ¹⁶							

¹ Source of loan means the agency from whom the loan has been taken such as WB, ADB, WMB, PNB, SBI, ICICI, IFC, PFC etc.

² Currency refers to currency of loan such as US\$, DM, Yen, Indian Rupee etc.

³ Details are to be submitted as at the end of previous year for existing assets and as on COD for the remaining assets.

⁴ Where the loan has been refinanced, details in the Form is to be given for the loan refinanced. However, the details of the original loan is to be given separately in the same form.

⁵ If the Tariff in the petition is claimed separately for various units, details in the Form is to be given separately for all the units in the same form.

⁶ Interest type means whether the interest is fixed or floating.

⁷ Base rate means the base as PLR, LIBOR etc. over which the margin is to be added. Applicable base rate on different dates from the date of drawl may also be enclosed.

⁸ Margin means the points over and above the floating rate.

⁹ At times caps/ floor are put at which the floating rates are frozen. If such a condition exists, specify the limits.

¹⁰ Moratorium period refers to the period during which loan servicing liability is not required.

¹¹ Repayment period means the repayment of loan such as 7 years, 10 years, 25 years etc.

¹² Repayment frequency means the interval at which the debt servicing is to be done such as monthly, quarterly, half yearly, annual, etc.

¹³ Where there is more than one drawal/ repayment for a loan, the date & amount of each drawal/ repayment may also be given separately

¹⁴ If the repayment instalment amount and repayment date can not be worked out from the data furnished above, the repayment schedule to be furnished separately.

¹⁵ In case of Foreign loan date of each drawal & repayment alongwith exchange rate at that date may be given.

¹⁶ Base exchange rate means the exchange rate prevailing at the end of previous year for existing assets and as on COD for the remaining assets.

*** Note : To be furnished separately for each year commencing from (n-1)th year to (n+1)th year.**

Consolidated report on additions to Fixed Assets during the year

Name of the Petitioner											
Name of the Power Station :									GLP Unit 1&2		
S.No.	Asset Description	Asset Code	FY 2016-17							FY 2017-18	FY 2018-19
			(Actuals/audited)							(Actuals & Anticipated)	(Anticipated)
			Cost	Interest	Finance Charges	Pre-Operative expenses	Exchange fluctuations	Total	Date of commissioning	Total	Total
1	2	3	4	5	6	7	8	9	10	16	16
	Land & land rights							0.0			
	Building & Civil works of Power plant							0.6			
	Hydraulic works							0.6			
	other civil work							0.1			
	Plant & machinery							-4.4			
	Lines and Cable Networks										
	Vehicles										
	Furniture & fixtures										
	Office Equipments										
	Computers & Calculators										
	Capital spares										
	Total							-3.11			

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

Name of the Petitioner : _____
 Name of the Power Station : _____ GLPL Unit 1&2
 New Projects
 Capital Cost Estimates

Board of Director/ Agency approving the Capital cost estimates:							
Date of approval of the Capital cost estimates:							
	Present Day Cost			Completed Cost			
Price level of approved estimates	As of End of _____ Qtr. Of the year _____			As on Scheduled COD of the Station			
Foreign Exchange rate considered for theCapital cost estimates	NA						
Capital Cost excluding IDC & FC							
Foreign Component, if any (In Million US \$ or the relevant Currency)							
Domestic Component (Rs. Cr.)							
Capital cost excluding IDC & FC (Rs. Cr)							
IDC & FC							
Foreign Component, if any (In Million US \$ or the relevant Currency)							
Domestic Component (Rs. Cr.)							
Total IDC & FC (Rs.Cr.)							
Rate of taxes & duties considered							
Capital cost Including IDC & FC							
Foreign Component, if any (In Million US \$ or the relevant Currency)							
Domestic Component (Rs. Cr.)							
Capital cost Including IDC & FC (Rs. Cr)							
Schedule of Commissioning							
COD of Unit-I/ Block-I							
COD of Unit-II/ Block-II							

COD of last Unit/ Block							

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

Name of the Petitioner:

Name of the Power Station :

GLPL Unit 1&2

S.No.	Break Down	Cost in Rs. Crores			Variation (Rs. Cr.)	Reasons for Variation	Rs. Crore.
		As per original Estimates	Actual Expenditure as on COD	Liabilities/Provisions			Admitted Cost (Rs. Cr.)
1	2	3	4	5	6	7	8
1.0	Land & Site Development						
2.0	Access road						
3.0	Temporary construction and enabling works						
4	Water storage system						
5.0	Water transportation system						
6.0	Railway system						
7.0	Steam generator / Boiler Island						
8.0	Steam Turbine Generator island including taxes, duties etc.						
9.0	Balance of Plant						
10.0	Control and Instrumentation						
11.0	Operator Training						
12.0	Start up fuel						
13.0	Construction insurance						
14.0	Special T&P						
15.0	Total Cost of Works (sum of items 1 to 15 above)						
16.0	Overheads						
17.0	Capital cost excluding IDC & FC						
18	Interest During Construction (IDC)						
19	Financing Charges (FC)						
20.0	Capital cost including IDC & FC						
21	Cost per MW						

NA

Break-up of Construction / Supply / Service packages

Name of the Petitioner : _____
 Name of the Power Station : _____ GLPL Unit 1&2

S.No.	Name/No. of Construction / Supply / Service Package	Scope of works ¹ (in line with head of cost break-ups as applicable)	Whether awarded through ICB/DCB/Depatmentally/Deposit Work	No. of bids received	Date of Award	Date of Start of work	Date of Completion of Work	Value of Award ² in (Rs. Cr.)	Firm or With Escalation in prices	Actual expenditure till the completion or up to COD whichever is earlier(Rs.Cr.)	Taxes & Duties and Pre-operative Expenses	IDC, FC, FERV & Hedging cost	Variation (Rs.Cr.)	Variation on account of change in Price (Rs. Cr.)	Reason for change in Price	Variation on account of change in Scope of Work (Rs. Cr.)	Reason for Change in Scope of Work
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1																	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	
25																	
26																	
27																	
28																	
29																	
30																	
31																	
32																	

NA

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

Name of the Petitioner: -----

Name of the Power Station: -----

GLPL Unit 1&2

Rs. Crore

S.No.	Draw Down Particulars	Quarter 1			Quarter 2			Quarter 3			Quarter 4		
		Quantum in Foreign currency	Exchange Rate on draw down date	Amount in Indian Rupee	Quantum in Foreign currency	Exchange Rate on draw down date	Amount in Indian Rupee	Quantum in Foreign currency	Exchange Rate on draw down date	Amount in Indian Rupee	Quantum in Foreign currency	Exchange Rate on draw down date	Amount in Indian Rupee
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Loans												
1.1	Foreign Loans												
1.1.1	Foreign Loan 1												
1.1	Total Foreign Loans												
	Draw down Amount												
	IDC												
	Financing charges												
1.2	Indian Loans												
1.2	Total Indian Loans												
1	Total of Loans drawn												
	IDC												
	Financing charges												
2	Equity												
2.1	Foreign equity drawn												
2.2	Indian equity drawn												
	Total equity deployed												

NA

Form G 6.9

RETURN ON EQUITY

Name of the Petitioner:

Name of the Power Station :

Rs. Crore

hbt	Particulars	FY 2016-17		FY2017-18		FY 2017-18		Remarks
		(Actuals/audited)		Estimated		(Anticipated)		
1	2	Unit 1	Unit2	Unit 1	Unit2	Unit 1	Unit2	10
1	Equity at the beginning of the year	151.50	175.97	151.73	175.09	151.73	175.09	
2	Capitalisation	1.18	-4.29	0.00	0.00	0.00	0.00	
3	Equity portion of capitalisation	0.23	-0.89	0.00	0.00	0.00	0.00	
4	Equity at the end of the year	151.73	175.09	151.73	175.09	151.73	175.09	
	Return Computation							
5	Return on Equity at the beginning of the year	23.48	27.28	23.52	27.14	23.52	27.14	
6	Return on Equity portion of capitalisation (on pro-rata basis)	0.02	-0.07	0.00	0.00	0.00	0.00	
7	Total Return on Equity	23.50	27.21	23.52	27.14	23.52	27.14	

Note:

Station-wise RoE (or basis of allocation for each Station) has to be provided

Form G 6.11
Interest on Working Capital

Name of the Petitioner
Name of the Power Station

GLPL
Giral unit 1&2

Rs. Crore

S. No.	Particulars	FY 2016-17 Actual	FY 2017-18 Estimated	FY 2018-19 Estimated	Remarks
1	2	Unit1&2	Unit1&2	Unit1&2	
1	Landed Cost of coal or lignite for 1/2 (half) months	0.00	1.86	7.55	
2	Cost of secondary fuel oil for two months	0.00	0.24	0.98	
3	Operation and Maintenance expenses for one month	4.94	5.39	5.69	
4	Maintenance spares @ 20% of operation and maintenance expenses	11.85	12.92	13.66	
5	Receivables equivalent to 1½ months of fixed and variable charges	30.91	43.13	62.82	
6	Landed cost of limestone for 1½ (one and a half) month	0.00	0.76	3.08	
	Total Working Capital	47.70	64.30	93.77	
	Rate of Interest (as per norms)	12.26%	11.80%	11.80%	
	Interest on Working Capital	5.85	7.59	11.06	

Insurance Expenses

Name of the Petitioner:
Name of the Power Station :

GLPL
Giral unit 1&2

Rs. Crore

S. No.	Particulars	FY 2016-17 Actual		FY 2017-18 Estimated		FY 2018-19 Estimated		Remarks
		n-1		n		n+1		
		(Actuals/audited)	(Actuals/audited)	April to March (Estimated)	April to March (Estimated)	(Anticipated)	(Anticipated)	
1	2	Unit 1	Unit2	Unit 1	Unit2	Unit 1	Unit 2	
	Insurance Expenses	0.49	0.66	0.51	0.69	0.53	0.73	
a)	Provision made/ proposed for the year							
b)	Actual insurance expenses incurred	0.49	0.66	0.51	0.69	0.53	0.73	
c)	Average Net Fixed Assets	583.68	601.73	544.98	554.78	505.67	510.04	
d)	0.2% of Avg. Net Fixed Assets	11.67	12.03	10.90	11.10	10.11	10.20	

Tax on R.O.E.

Name of the Petitioner:

Name of the Power Station :

GLPL Unit 1&2

Rs.

S. No.	Particulars	FY 2016-17	FY 2017-18	FY 2018-19	Ensuing Year(n+2)	Remarks
		(Actuals/audited)	Actual/ Estimated	Proposed to be recovered	Proposed to be recovered	
1	2	3	4	5	6	7
A)	Advance Tax assessed & deposited on-----					
a)	for Quarter I & deposited on 15 th June.					
b)	for Quarter II & deposited on 15 th Sept.					
c)	for Quarter III & deposited on 15 th Dec.					
d)	for Quarter IV & deposited on 15 th March.					
	Total---(A)	0.00	0.00	0.00		
B)	Deffered tax liability before 01.04.2009					

Note:- Tax calculated should be only for the generation business and should not include income from any other income stream like efficiency gain & incentive etc.

Form G 7.1
Proposed improvement in performance

Name of the Petitioner

Name of the Power Station :

UNIT 1&2

Rs. Crore

S.No.	Particulars	FY 2016-17 actual	2017-18 estimated	2018-19 estimated	Remarks
1	2	3	5	7	12
1	Plant load factor	0.00%	19.73%	80.00%	
2	Auxiliary consumption	0.00	11.50%	11.50%	
3	Specific fuel consumption				
(I)	Lignite, kg / kWh	0.00	0.77	0.77	
ii)	gas, SCM / kWh				
(iii)	oil, ml / kwh	0.00	1.00	1.00	
(iv)	Limestone kg / kWh	0.00	0.19	0.19	
(v)	any other fuel				
4	Station heat rate, kcal / kwh	0.00	2449.50	2449.50	
5	Annual Maitenance shut down days				
6	Forced / planned shut down except annual shut down				
(I)	number / year				
(ii)	cumulative duration, hours / year				
7	Fly ash utilisation, %				
8	Other bye product utilisation(give list)				
9	Outstanding dues, days of receivables				
10	Availability	0.00	80.00%	80.00%	

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