

**BEFORE THE HON'BLE PUNJAB STATE ELECTRICITY
REGULATORY COMMISSION, CHANDIGARH**

PETITION NO. 14 OF 2020

IN THE MATTER OF:

GVK Power (Goindwal Sahib) Limited

Plot No.10, Paigah House,

Sardar Patel Road,

Secunderabad – 500003

...Petitioner

Versus

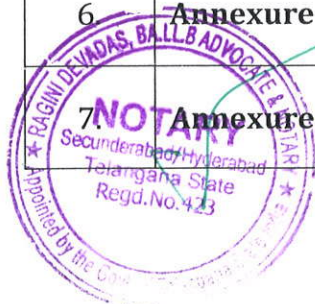
Punjab State Power Corporation Limited

The Mall, Patiala (Punjab)

...Respondent

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For GVK POWER (GOINDWAL SAHIB) LTD.

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Through:

For GVK POWER (GOINDWAL SAHIB) LTD.

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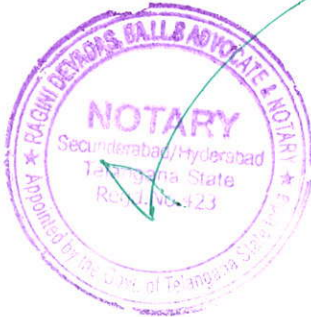
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For the Petitioner,

GVK Power (Goindwal Sahib) Limited

Place: Hyderabad

Date: 16th June, 2020



BEFORE THE HON'BLE PUNJAB STATE ELECTRICITY
REGULATORY COMMISSION, CHANDIGARH

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The Mall, Patiala (Punjab)

...Respondent

**AFFIDAVIT ON BEHALF OF GVK POWER (GOINDWAL SAHIB) LTD./PETITIONER IN
RESPONSE TO QUERIES POSED BY THIS HON'BLE COMMISSION VIDE ORDER DATED
21.05.2020**

I, P Rama Mohan Rao, son of Shri P Krishna Murthy, aged about 62 years, residing at Flat No. 308, S.V.S.S. Nivas, Road No. 1, Czech Colony, Sanath Nagar, Hyderabad- 500018, Authorised Signatory of the Petitioner company, having its office at Plot No. 10, Paigah Colony, Sardar Patel Road, Secunderabad – 500 003, Telangana, presently in Hyderabad, do hereby solemnly affirm and state as under:

1. I say that I am duly authorized representative of GVK Power (Goindwal Sahib) Limited, the Petitioner. I am competent to affirm this Affidavit on behalf of the Petitioner. The facts stated herein are based on the records maintained by the Petitioner Company in the ordinary course of business.



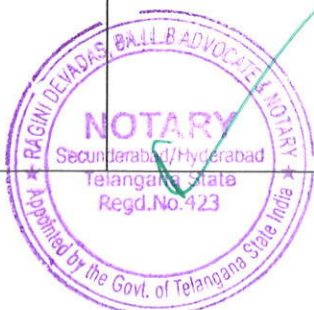
For GVK POWER (GOINDWAL SAHIB) LTD.

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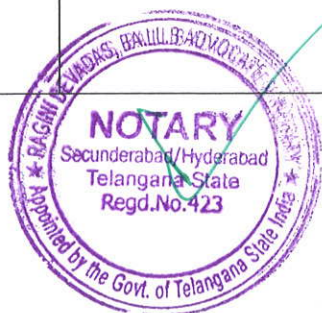
2. I say that the Hon'ble Commission vide its order dated 21.05.2020 in Petition No. 14 of 2020, had desired the Petitioner, GVK Power (Goindwal Sahib) Limited ("GVK/Petitioner") to submit certain further information as detailed in the said order. In compliance with the said Order, GVK is submitting the following for the kind consideration of the Hon'ble Commission.

S No.	Query Raised by Hon'ble Commission	Response of the Petitioner
1.	The data regarding Annual Audited Accounts for FY 2018-19 and Provisional Accounts for FY 2019-20 along with the Cost Audit Accounts for FY 2018-19 be provided in excel/xlsx format.	The required information is annexed to the reply as Annexure 1 . The petitioner submits that the figures for FY 20 are provisional as the accounts are yet to be finalized.
2.	GVK to certify and provide a copy of the Fixed Assets Register and supply the details of category-wise depreciation as provided in PSERC MYT Regulations 2019.	The asset register as on 31.03.2020 is attached as Annexure 2. The assets in the register are as per the actual cost incurred by GVK during the project execution and subsequent addition/deletion. However since the Hon'ble Commission has approved a capital cost of Rs.3058.37 Cr against the petitioner's submission of Rs.4267 Cr vide order dated 17.01.2020 in the Petition No. 54 of 2017, the actual assets have been reduced in the same proportion to arrive at the cost of Rs.3058.37 Cr and subsequent addition and deletion has been considered as actuals. A working of the same is attached in Annexure 2 .



For GVK POWER (GOINDWAL SAHIB) LTD.

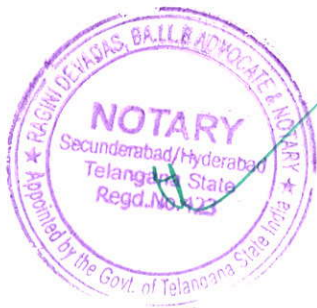
S No.	Query Raised by Hon'ble Commission	Response of the Petitioner
3.	<p>The Petitioner has claimed Rs.15.70 crore, Rs.16.50 crore and Rs.17.34 crore for FY 2020-21, FY 2021-22 and FY 2022-23 respectively the for the 2nd control period. GVK is required to submit the details of Managerial level and other employees (category-wise) deployed at the Plant, the Corporate Office and the Guest House at plant site or otherwise etc., during FY 2018-19 and FY 2019-20 and estimates for FY 2020-21, 2021-22 and 2022-23 along-with details of Pay and allowances.</p>	<p>a. The petitioner submits that the details of number of employees at managerial level and other employees as on 31.03.2019 and 31.03.2020 is being provided in Working Note 1.</p> <p>b. The petitioner further submits that the details of actual expenditure under the head employee expenses for the year FY 2018-19 and FY 2019-20 is being provided in Working Note 2.</p> <p>c. The petitioner further submits that for the MYT control period FY 21 to FY 23 the employee expenses have been projected as per Clause 26 (ii) of the MY Regulations 2019 which states that:</p> <p style="text-align: center;">$EMPn + A\&Gn = (EMPn-1 + A\&Gn-1) * (INDEXn / INDEXn-1)$</p> <p style="text-align: center;">$Where\ INDEXn = 0.50 * CPI_n + 0.50 * WPI_n$</p> <p>Illustrative Working has been provided in Working Note 3.</p>
4 (i)	<p>Calculation of employee expenses needs to be provided along with detailed actual employee strength.</p>	<p>The petitioner submits that reply to query no.3 may please be considered as the reply of this query.</p>



For GVK POWER (GOINDWAL SAHIB) LTD.

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Authorised Signatory

S No.	Query Raised by Hon'ble Commission	Response of the Petitioner
4 (ii)	<p>GVK has claimed Rs.35.00 crore for FY 2020-21 no amount has been mentioned for FY 2021-22 & 2022-23 for the R&M (Form-G-7(Annexure-A)) for repair of Plant and Machinery whereas during FY 2018-19(actual) and FY 2019-20(estimated), this expenditure was Rs.1.48 crore and Rs.2.87 crore respectively. Justification along-with details of the plant and machinery to be repaired may be provided for the entire MYT.</p>	<p>The petitioner submits that major overhaul of both the units is planned in FY 2020-21 and the R&M cost has been estimated on that basis. This overhauling expenses are over and above the routine R&M expenses. The R&M cost for balance two years of MYT Control period FY 2021-22 and FY 2022-23 has been estimated as per the methodology given in the MYT Regulations, Clause 26.(i) which states</p> <p style="text-align: center;">R&Mn= K*GFA*WPI_n/WPI_{n-1}</p> <p>K factor has been calculated using the R&M expenses estimated in FY 2020-21 and the same K factor has been used to project the R&M Expenses for FY 2021-22 and FY 2022-23.</p>
4 (iii)	<p>Rs.5.00 crore has been claimed for R & M (Form G-7) of the Buildings during FY 2020-21 and no amount has been mentioned for FY 2021-22 & 2022-23 whereas during FY 2018-19(actual) and FY 2019-20(estimated) it is shown as Rs.1.06 crore and Rs.1.54 crore, respectively. Details/ justification for the same have not been provided.</p>	<p>The petitioner humbly submits that R&M expenses of Buildings has been submitted as Rs.2 Cr. For other activities the planned amount is Rs.5 Cr. These expenses include road repair works, area grading works, works related to parking area and other R&M works not covered under any other heads.</p>



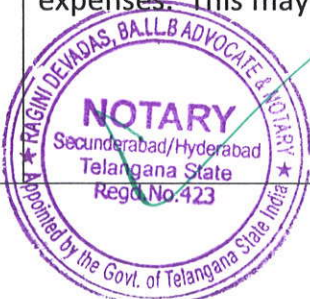
For GVK POWER (GOINDWAL SAHIB) LTD.

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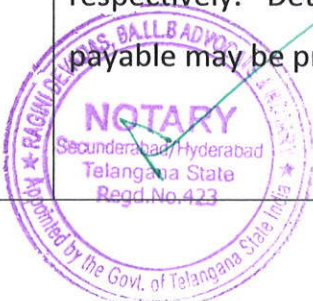
S No.	Query Raised by Hon'ble Commission	Response of the Petitioner
4 (iv)	<p>As per Form-G-7(Annexure-A),Rs.21.00 crore has been claimed for Contractors' labour during FY 2020-21 and no amount has been mentioned for FY 2021-22 & FY 2022-23 whereas during FY 2018-19(actual) and FY 2019-20(estimated) it is shown as Rs.13.61 crore and Rs.13.79 crore respectively. Since, the work is generally performed by the regular manpower deployed at the plant site and in case this has to be done by the employing contractors' labour, the same should have been claimed under employee cost. Reasons and justification for the same and higher cost in the MYT period needs to be given.</p>	<p>The petitioner submits that a major overhaul of both the units is planned in the FY 2020-21 for which petitioner has planned to award additional manpower contracts and the cost estimates for FY 2020-21 have been taken for on that basis. The petitioner further submits that the contracts for manpower are being awarded as regular O&M contracts based on the scope of work and not on the manpower basis and thus the contractor remains the principal employer. The petitioner further submits that workers on contractor role are cheaper than the on-roll workers.</p>
4 (v)	<p>Rs.26.00 crore has been claimed for Consumables, Stores and Spares under R&M expenses (Form-G-7) during FY 2020-21 and no amount has been mentioned for FY 2021-22 & 2022-23 whereas during FY 2018-19(actual) and FY 2019-20(estimated) it is shown as Rs.11.64 crore and Rs.15.10 crore respectively. Detailed justification is required for the projected increase.</p>	<p>The petitioner submits that the detailed breakup of the Consumables estimated in FY 2020-21 is attached as Annexure 3 to the reply. For the balance MYT period the overall R&M Expenses have been calculated according to the MYT Regulations 2019 Clause 26 (i)</p> <p style="text-align: center;">R&Mn= K*GFA*WPI_n/WPI_{n-1}</p> <p>K factor for the control period has been calculated using the R&M Expenses estimated</p>



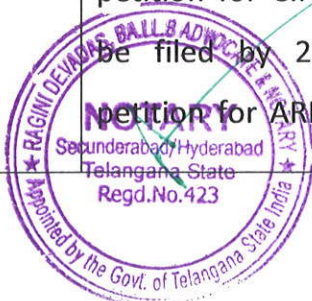
S No.	Query Raised by Hon'ble Commission	Response of the Petitioner
		in FY 2020-21 and the same k factor has been considered for the balance 2 years of the control period i.e. FY 2021-22 and FY 2022-23.
4 (vi)	Insurance charges to the tune of Rs.7.62 crore, Rs.8.01 Crore and Rs.8.42 crore for FY 2020-21, FY 2021-22 and FY 2022-23 respectively have been claimed whereas during FY 2018-19(actual) and FY 2019-20(estimated) these are shown as Rs.2.85 crore and Rs.7.25 crore respectively under Administrative and General expenses (Form G-6). Details and basis upon which the same has been worked out and claimed be provided.	<p>a. The petitioner submits that the actual expenditure under the head insurance is provided in the Working Note 4.</p> <p>b. The petitioner submits that the Mega Insurance Policy is being annexed to the reply as Annexure 4.</p> <p>c. The petitioner further submits that for MYT Control period FY 2020-21 to FY 2022-23 the Insurance expenses have been projected as per the MYT Regulations 2019, Clause 26 (ii) which states that:</p> <p style="text-align: center;">$EMPn + A\&Gn = (EMPn-1 + A\&Gn-1) * (INDEXn / INDEXn-1)$</p> <p style="text-align: center;">$Where\ INDEXn = 0.50 * CPI_n + 0.50 * WPI_n$</p>
4 (vii)	Coal testing charges and Ash Handling charges have been claimed under the head of A&G (Form G-6) expenses whereas these are the part of R&M expenses. This may be explained.	The petitioner submits that These two heads are not given separately in the formats of Hon'ble Commission hence has per our understanding we taken it under the head A&G expenses, however they shall be changed by the petitioner as per the directions of Hon'ble Commission.



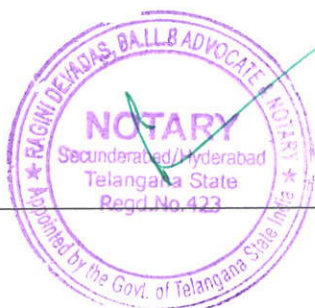
S No.	Query Raised by Hon'ble Commission	Response of the Petitioner
4 (viii)	<p>Electricity charges for Offices, have been projected to the tune of Rs.14.72 crore Rs.11.24 Crore and Rs.11.82 crore for FY 2020-21, FY 2021-22 and FY 2022-23 respectively whereas during FY 2018-19(actual) and FY 2019-20(estimated) it is shown as Rs.4.35 crore and Rs.10.20 crore respectively under A&G expenses(Form G-6). Details of the offices against which the electricity charges have been billed and are payable in the future may be provided. The details of billing of start-up power for FY 2018-19 and FY 2019-20 be provided along-with projections for the MYT period.</p>	<p>a). The petitioner submits that the details of the actual expenditure incurred under the head electricity expenses is provided in Working Note 5.</p> <p>b). The electricity expenses for the MYT control period FY 2020-21 to FY 2022-23 has been projected by the petitioner as per the MYT regulations 2019 Clause 26 (ii)</p> <p style="text-align: center;">Clause 26 $EMP_n + A\&G_n = (EMP_{n-1} + A\&G_{n-1}) * (INDEX_n / INDEX_{n-1})$</p> <p style="text-align: center;">Where $INDEX_n = 0.50 * CPI_n + 0.50 * WPI_n$</p>
4 (ix)	<p>Legal, professional and consultancy fee (Form G-6) has been claimed to the tune of Rs.11.08 crore, Rs.11.62 Crore and Rs.12.22 crore for FY 2020-21, FY 2021-22 and FY 2022-23 respectively whereas during FY 2018-19(actual) and FY 2019-20(estimated) the claim is for Rs.8.16 crore and Rs.10.54 crore respectively. Details of the charges payable may be provided.</p>	<p>The petitioner submits that the expenses under the head Legal, professional and consultancy fee for MYT Control period FY 2020-21 to FY 2022-23 have been calculated as per the MYT Regulations 2019, Clause 26 (ii) which states that:</p> <p style="text-align: center;">$EMP_n + A\&G_n = (EMP_{n-1} + A\&G_{n-1}) * (INDEX_n / INDEX_{n-1})$</p> <p style="text-align: center;">Where $INDEX_n = 0.50 * CPI_n + 0.50 * WPI_n$</p>



S No.	Query Raised by Hon'ble Commission	Response of the Petitioner
4 (x)	<p>Security/service charges paid to an Outside Agency to the tune of Rs.3.98 crore Rs.4.19 Crore and Rs.4.40 crore for FY 2020-21, FY 2021-22 and FY 2022-23 respectively have been claimed without any detail of manpower provided for the same (Form G-6). Copy of the Contract-cum-Agreement entered with the Agency providing security staff (location wise) needs to be supplied.</p>	<p>a. The petitioner submits that the Contract copy of security expenses awarded to M/S Swift is annexed as Annexure 5</p> <p>b. The petitioner further submits that for the MYT Control Period FY 2020-21 to FY 2022-23 the security expenses have been projected as per the MYT Regulation 2019, Clause 26 (ii) which states that;</p> <p>Clause 26 EMP_n+ A&G_n= (EMP_{n-1} + A&G_{n-1}) *(INDEX_n/INDEX_{n-1}).</p> <p>Where INDEX_n = 0.50*CPI_n + 0.50*WPI</p>
5.	<p>GVK has not supplied the information/Data along-with cost for primary and secondary fuel for FY 2020-21 to FY 2022-23. GVK is required to supply information/Data along-with cost for primary and secondary fuel for the 2nd control period on the similar formats as desired by the Commission in its Order dated 07.02.2020 in Petition No. 69 of 2017 (MYT 2017-18 to FY 2019-20).</p>	<p>The petitioner submits that the required information has been Annexed to the reply as Annexure 6</p>
6.	<p>As per PSERC MYT Regulations, 2019, petition for CIP & BP was required to be filed by 20th August, 2019 and petition for ARR & Tariff by 30th Nov.,</p>	<p>The petitioner pleads to the Hon'ble Commission that it has provided all the information related to CIP and BP along with this petition. Further the petitioner pleads that</p>

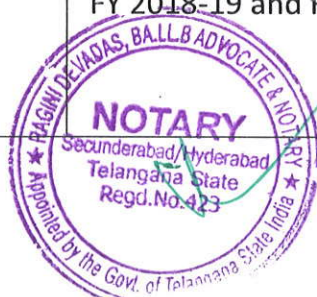


S No.	Query Raised by Hon'ble Commission	Response of the Petitioner
	<p>2019 for the control period FY 2020-21 to FY 2022-23. As such, the petition for approval of CIP & BP and the petition for ARR & tariff are to be filed separately as normally the petition for CIP & BP is to be decided prior to the petition for ARR and Tariff petition for the MYT control period.</p>	<p>for this control period a single petition may please be considered. For all the further control periods the petitioner shall strictly adhere the process.</p>
7.	<p>In the CIP for the period FY 2020-21 to FY 2022-23, GVK has proposed nil expenditure for FY 2020-21 & FY 2021-22 and Rs. 540 crore to be incurred in FY 2022-23 for installation of FGD. The expenditure for installation of FGD translates to Rs. 1 crore/MW whereas the cost estimation given by CEA in Sept 2018 for installation of FGD at NPL and TSPL projects was Rs. 0.4 crore per MW.</p>	<p>1. The petitioner submits that a Copy of the Advisory Report dated 30-04-2019 issued by CEA is enclosed in Annexure 7, in the report CEA has recommend CAPEX cost as Rs. 0.45 crores per MW as a base cost which does not includes Financial cost, IDC, Expenditure for Project Management and Engineering services, Taxes and Duties, FERV, if any, etc. Further, CEA has not considered</p> <ol style="list-style-type: none"> the cost of Pile Foundation cost, which is required due to poor soil conditions existing at the site, Cost for new independent Chimneys of 100 meters high or Lining of existing chimney flues. <p>2. The petitioner further submits that in page no. 5 of the Advisory report, CEA has recommended that the cost of retrofitting FGD for GVK Thermal Power (Goindwal</p>

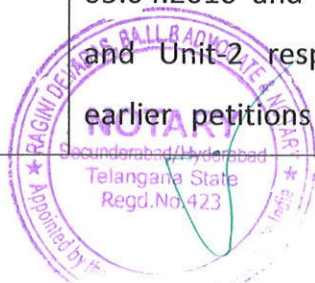


S No.	Query Raised by Hon'ble Commission	Response of the Petitioner
		Sahib) Plant should be discovered through open competitive bidding in consultation with lead procurer, i.e., PSPCL in our case. The lead procurer (to be invited by GVK Thermal Power (Goindwal Sahib) Plant) may participate in bidding process till final award of FGD contract.
7.1	GVK has considered the expenditure to be incurred on the installation of FGD only in FY 2022-23. GVK to furnish the Schedule/timelines for the installation of FGD at its plant from the bidding stage to commissioning.	The petitioner humbly submits that once in principal approval is received from Hon'ble Commission, we would schedule the installation of FGD and would ensure the completion before December 2022.
7.2	GVK may simultaneously approach CEA for obtaining the correct cost estimation as applicable in the FY 2022-23 for installation of FGD at its plant and also furnish a Detailed Project Report for the FGD installation at its plant with CEA's approval/recommendations.	The petitioner submits that it has already approached CEA and the approved Advisory Report dated 30-04-2019 from CEA on submission of Feasibility Report is enclosed in Annexure 7.
8.	GVK vide its affidavit dated 17.03.2020 in petition no. 70 of 2017 has submitted the capital expenditure in FY 2019-20 as Rs. 0.6986 crore for setting up of coal testing laboratory. However, in this petition GVK has	The Petitioner submits that the Petitioner has claimed an additional capital expenditure of Rs. 0.6986 Cr in FY 2019-20 towards setting up of Coal Testing Lab out of total capex of Rs. 0.86 Cr. The CA certificate for the same is annexed as Annexure 8.

S No.	Query Raised by Hon'ble Commission	Response of the Petitioner
	shown Rs. 0.86 crore as capital expenditure in FY 2019-20 for the coal testing laboratory without submitting any expenditure certificate from the Chartered Accountants/Statutory Auditors. GVK may explain/clarify the difference in expenditure of Rs. 0.16 crore.	The Petitioner submits that the Petitioner has claimed an additional capital expenditure of Rs. 0.6986 Cr in FY 2019-20 towards setting up of Coal Testing Lab out of total capex of Rs. 0.86 Cr. The CA certificate for the same is annexed as Annexure 8 .
9.	GVK has not filed the APR for FY 2019-20 till date. As such, APR for FY 2019-20 is required to be included in the MYT petition.	The petitioner submits that the MYT for 2019-20 has not been approved hence the APR has not been filed but all the data pertaining to the performance of the plant as well as financial performance in FY 2019-20 has been included in the current petition. The petitioner thus pleads to consider the petition as it is. Once the MYT for 2019-20 is approved the petitioner shall file a separate APR Petition.
10.	In para 6.2 of the petition, availability factor has been mentioned as 90% for FY 2020-21 to FY 2022-23 whereas in Table 14 of the petition, it has been mentioned as 99% for the said years. GVK to reconcile.	The Petitioner humbly regrets the error and submits that availability factor shall be 90% in Table 14 of the petition for FY 2020-21 to FY 2022-23.
11.	GVK to furnish month-wise declared availability and scheduled energy for FY 2018-19 and FY 2019-20.	The petitioner submits that the monthly availability and scheduled energy for FY 2018-19 and 2019-20 has been provided in Working Note 6 .



S No.	Query Raised by Hon'ble Commission	Response of the Petitioner
12.	In para 6.4 of the petition, GVK has stated that the norms for station heat rate, auxiliary consumption, specific consumption of secondary fuel are to be as per Regulation 36 of CERC (Terms & Conditions of Tariff) Regulations, 2019. However, the quoted Regulation does not deal with the said norms. GVK need to refer to the relevant Regulation(s) in this regard.	The petitioner submits that the Regulation 49 of the CERC (terms and Condition of Tariff) Regulations, 2019 is the correct regulation reference.
13.	GVK has arranged long term coal only for 62% capacity of the project under SHAKTI scheme. The long-term arrangements made by GVK for the supply of coal for the balance 38% capacity of the project be intimated forthwith as 100% coal on long term basis is to be arranged due to cancelation of its captive coal mine, as already directed by the Commission in other petitions.	The petitioner submits that as per the trends of despatch instructions from PSPCL we have considered the PLF for MYT Control Period as 55% for which the allocation under SHAKTI scheme is enough as of now. However, the petitioner assures that if the offtake capacity increases we would arrange long term arrangement for balance 38% coal by participating in future auctions under SHAKTI Scheme.
14.	In Annexure-A, Form G-18, the 'actual COD' has been mentioned as 05.04.2016 and 15.04.2016 for Unit-1 and Unit-2 respectively, whereas in earlier petitions GVK had mentioned	The petitioner humbly submits that correct COD is 06.04.2016 and 16.04.2016.



S No.	Query Raised by Hon'ble Commission	Response of the Petitioner
	the same as 06.04.2016 and 16.04.2016. The same may be reconciled.	
15.	In Annexure-A, Form G-33(A), the coal consumed in Jan., 2019 to March, 2019 has been shown with minus (-) sign. The same may be explained by GVK.	The petitioner humbly submits that negative signs appear to restrict the coal quantity calculated as per the specific coal consumption for calculating GCV. This does not have any implication to calculations anywhere in the model.

For GVK POWER (GOINDWAL SAHIB) LTD.

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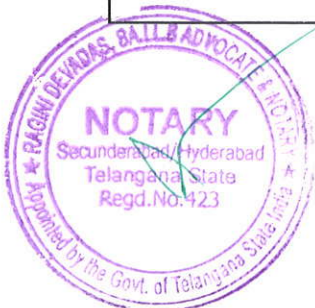
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Working Notes**Working Note 1**

Details of Employees at Managerial Levels and other employees:

Designation	No as on 31.03.2019	No as on 31.03.2020
Director	1	1
Vice President	1	1
Assistant Vice President	1	1
General Manager	1	2
Deputy General Manager	3	3
Assistant General Manager	4	3
Senior Managers	3	5
Managers	13	13
Deputy Managers	13	12
Assistant Managers	36	32
Sr. Executives/ Engineers/Sr. Security	38	41
Executive/Engineers	13	36
Graduate Engineer Trainee	2	
Jr. Executives	7	1
	136	151
Retainers		3
	136	154



For GVK POWER (GOINDWAL SAHIB) LTD.

[Signature]
Authorised Signatory

Working Note 2

Details of Employee Expenses in FY 2018-19 and FY 2019-20

Sl. No	Particulars	FY 2018-19	FY 2019-20 (Till Dec 2019)
1	Salaries and wages	11.58	10.32
2	Contribution to provident and other funds	0.84	0.69
3	Gratuity	0.15	0.11
4	Staff welfare expenses	0.10	0.10
		12.67	11.22
	Estimation for Jan 20 to March 2020(11.22/9*3)	-	3.74
	Total	12.67	14.96

Working Note 3

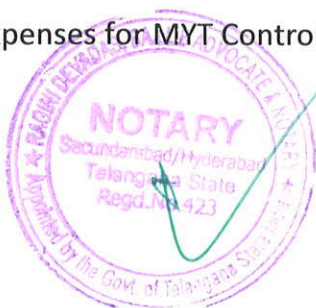
Illustrative Calculation for Employee Expenses

Clause 26.ii of the MYT regulation PSERC states the methodology of calculation of Employee expenses as follows

$$EMPn + A\&Gn = (EMPn-1 + A\&Gn-1) * (INDEX n / INDEX n-1).$$

$$\text{Where } INDEXn = 0.50 * CPI_n + 0.50 * WPI_n$$

The same methodology has been adopted by the petitioner for calculation of Employee expenses for MYT Control period of FY 2020-21 to FY 2022-23.



For GVK POWER (GOINDWAL SAHIB) LTD.

QNV
Authorised Signatory

2011-12 series				
Year	WPI	WPI Inflation	CPI	CPI Inflation
FY 2017-18	114.88	2.92%	284.42	3.08%
FY 2018-19	119.79	4.28%	299.92	5.45%

$$\text{Index}_{n-1} = 0.5 * \text{WPI}_{2017-18} + 0.5 * \text{CPI}_{2017-18}$$

$$= 0.5 * 114.88 + 0.5 * 284.42$$

$$= 199.65$$

$$\text{Index}_n = 0.5 * \text{WPI}_{2018-19} + 0.5 * \text{CPI}_{2018-19}$$

$$= 0.5 * 119.79 + 0.5 * 299.92$$

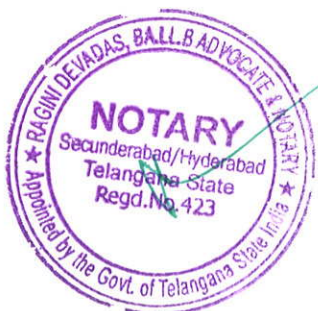
$$= 209.85$$

$$\text{Thus } \text{Index}_n / \text{Index}_{n-1} = 105.11\%$$

Working Note 4.

Details of Insurance Expenses for FY 2019-20

GL Code	GL Name	Amount in Rs.
4260030500	Insurance Vehicles	70,239
4260031510	Insurance Others	6,63,69,451
Actual till 29.02.2020		6,64,39,690
Estimated till 31.03.2020		7,24,79,662



For GVK POWER (GOINDWAL SAHIB) LTD.

[Handwritten Signature]

Authorised Signatory

Working Note 5

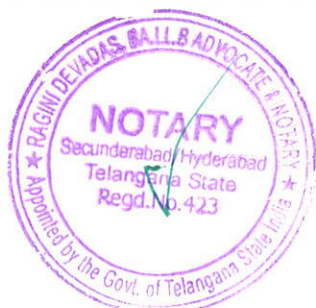
Details of Electricity Expenses for FY 2019-20

GL Code	GL Name	Amount in Rs.
4260010105	Electricity Charges (Plant)	9,34,36,179
4260010000	Electricity Charges (Admin)	44,225
Actual till 29.02.2020		9,34,80,404
Estimated till 31.03.2020		10,19,78,622.55

Working Note 6

Monthly availability and scheduled energy for FY 2018-19 and 2019-20

Month	Declared Capacity	Scheduled Generation	Plant Availability in %	
	MU	Mu	Monthly	Cumulative
Apr-18	123.32	89.09	34.85	34.85
May-18	316.97	222.44	86.70	61.20
Jun-18	165.16	147.09	46.68	56.41
Jul-18	150.61	137.61	41.20	52.55
Aug-18	179.65	131.53	49.14	51.86
Sep-18	210.20	130.34	59.41	53.09
Oct-18	190.29	186.37	52.05	52.94
Nov-18	207.07	191.23	58.53	53.63
Dec-18	299.42	239.81	81.90	56.82
Jan-19	365.52	233.50	99.98	61.19
Feb-19	281.67	211.87	85.30	63.21
Mar-19	360.73	282.37	98.67	66.22
Apr-19	314.48	183.57	88.89	88.89
May-19	365.24	27.84	99.90	94.48
Jun-19	353.51	201.13	99.92	96.27
Jul-19	365.60	217.46	100.00	97.22



For GVK POWER (GOINDWAL SAHIB) LTD.


 Authorised Signatory

Month	Declared Capacity	Scheduled Generation	Plant Availability in %	
	MU	Mu	Monthly	MU
Aug-19	365.60	182.81	100.00	97.78
Sep-19	352.50	197.43	99.63	98.09
Oct-19	365.60	83.69	100.00	98.36
Nov-19	353.81	-	100.00	98.57
Dec-19	365.60	35.27	100.00	98.73
Jan-20	365.60	60.83	100.00	98.86
Feb-20	342.01	-	100.00	98.95
Mar-20	365.60	-	100.00	98.50

3. I state that the facts stated in this Affidavit are true and correct to the best of my knowledge based on the records of the Petitioner and that the submissions made therein are based upon information received by me and believed to be true.

For GVK POWER (GOINDWAL SAHIB) LTD.

Deponent

Authorised Signatory

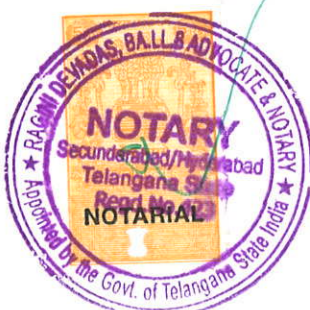
Verification:

I, the deponent above named do hereby verify that the contents of my above affidavit are true to my knowledge and belief; no part of it is false and nothing material has been concealed there from.

Verified at Hyderabad on the 16th day of June, 2020

For GVK POWER (GOINDWAL SAHIB) LTD.

Authorised Signatory



16 JUN 2020

ATTESTED
RAGINI DEVADAS
 B.A., LL.B. (Osm)
 ADVOCATE & NOTARY
 Appointed by the Govt. of Telangana
 H.No. 1-11-150/2, Shyamal Building,
 Begumpet, Hyderabad - 500 016
 TELANGANA STATE, INDIAN


K.S. Rao & Co.

CHARTERED ACCOUNTANTS

INDEPENDENT AUDITOR'S REPORT

To the Members of GVK Power (Goindwal Sahib) Limited

Report on the Audit of the Ind AS Financial Statements
Qualified Opinion

We have audited the financial statements of **GVK Power (Goindwal Sahib) Limited** ("the Company"), which comprise the balance sheet as at March 31, 2019, and the statement of Profit and Loss (including Other Comprehensive Income), statement of changes in equity and the statement of cash flows for the year then ended, and notes to the financial statements, including a summary of significant accounting policies and other explanatory information.

In our opinion and to the best of our information and according to the explanations given to us, except for the effects of the matter described in the Basis for Qualified Opinion section of our report, the aforesaid financial statements give the information required by the Companies Act 2013 in the manner so required and give a true and fair view in conformity with the Indian Accounting Standards prescribed under section 133 of the Act read with the Companies (Indian Accounting Standards) Rules, 2015, as amended, ("Ind AS") accounting principles generally accepted in India, of the state of affairs of the Company as at March 31, 2019 and its loss, changes in equity and its cash flows for the year ended on that date.

Basis for qualified opinion

With reference to note 32 to the Ind AS financial statements, regarding uncertainty faced by the Company for availability/supply of coal, the management is confident in continuing the operations with long term coal linkage through Scheme for Harnessing and Allocating Koyala Transparently in India (SHAKTI scheme) for significant part of its capacity, coal procured under e-auction. We are unable to comment up on the recoverability of carrying value of the Property, Plant and Equipment of INR 3,81,370.25 Lakhs for determining the impairment.

With reference to note 11 to the Ind AS financial statements, regarding recoverability of loan from GVK Coal (Tokisud) Pvt Ltd, the management of GVK Coal (Tokisud) Private Limited is confident that it will be appropriately reimbursed for cancelled coal mine and the management of the company is confident that the company will be repaid the loan amount of the company. We are unable to comment up on the recoverability of carrying value of the loan to GVK Coal (Tokisud) Pvt Ltd of INR 6,544.77 Lakhs for determining the provision for loans.

Basis for Opinion

We conducted our audit in accordance with the Standards on Auditing (SAs) specified under section 143(10) of the Companies Act, 2013. Our responsibilities under those Standards are further described in the Auditor's Responsibilities for the Audit of the Financial Statements section of our report. We are independent of the Company in accordance with the Code of Ethics issued by the Institute of Chartered Accountants of India ("ICAI") together with the ethical requirements that are relevant to our audit of the financial statements under the provisions of the Companies Act, 2013 and the Rules thereunder, and we have fulfilled our other ethical responsibilities in accordance with these requirements and the ICAI's Code of Ethics. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion on the financial statements.

P. Padma Rao


K.S. Rao & Co.

CHARTERED ACCOUNTANTS

Emphasis of Matter

We draw attention to note 32 to the Ind AS financial statements, regarding uncertainty towards determination of approval of enhanced project cost and differential coal procurement cost and other matters mentioned in the aforesaid note. Management is confident that the petitions will be decided in its favour and accordingly no adjustments are required to the carrying value of Trade Receivables. The ultimate outcome of these matter cannot be presently determined, pending approvals/acceptances and legal interpretations. Accordingly, no provision for any liability and/or adjustment that may result has been made in the Ind AS financial statements.

Our opinion is not qualified in respect of this matter.

Information Other than the Financial Statements and Auditor's Report Thereon

The Company's Board of Directors is responsible for the other information. The other information comprises the information included in the management report, but does not include the Ind AS financial statements and our auditor's report thereon.

Our opinion on the Ind AS financial statements does not cover the other information and we do not express any form of assurance conclusion thereon.

In connection with our audit of the Ind AS financial statements, our responsibility is to read the other information and, in doing so, consider whether such other information is materially inconsistent with the financial statements or our knowledge obtained in the audit or otherwise appears to be materially misstated. If, based on the work we have performed, we conclude that there is a material misstatement of this other information, we are required to report that fact. We have nothing to report in this regard.

Responsibilities of Management for the Financial Statements

The Company's Board of Directors is responsible for the matters stated in section 134(5) of the Companies Act, 2013 ("the Act") with respect to the preparation of these standalone financial statements that give a true and fair view of the financial position, financial performance, changes in equity and cash flows of the Company in accordance with the accounting principles generally accepted in India, including the accounting Standards specified under section 133 of the Act. This responsibility also includes maintenance of adequate accounting records in accordance with the provisions of the Act for safeguarding of the assets of the Company and for preventing and detecting frauds and other irregularities; selection and application of appropriate accounting policies; making judgments and estimates that are reasonable and prudent; and design, implementation and maintenance of adequate internal financial controls, that were operating effectively for ensuring the accuracy and completeness of the accounting records, relevant to the preparation and presentation of the financial statements that give a true and fair view and are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is responsible for assessing the Company's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the Company or to cease operations, or has no realistic alternative but to do so.

Those Board of Directors are also responsible for overseeing the company's financial reporting process.

Auditor's Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an

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audit conducted in accordance with SAs will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements.

As part of an audit in accordance with SAs, we exercise professional judgment and maintain professional scepticism throughout the audit. We also:

- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances. Under section 143(3)(i) of the Companies Act, 2013, we are also responsible for expressing our opinion on whether the company has adequate internal financial controls system in place and the operating effectiveness of such controls.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the Company's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause the Company to cease to continue as a going concern.
- Evaluate the overall presentation, structure and content of the financial statements, including the disclosures, and whether the financial statements represent the underlying transactions and events in a manner that achieves fair presentation.

Materiality is the magnitude of misstatements in the financial statements that, individually or in aggregate, makes it probable that the economic decisions of a reasonably knowledgeable user of the financial statements may be influenced. We consider quantitative materiality and qualitative factors in (i) planning the scope of our audit work and in evaluating the results of our work; and (ii) to evaluate the effect of any identified misstatements in the financial statements.

We communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

We also provide those charged with governance with a statement that we have complied with relevant ethical requirements regarding independence, and to communicate with them all relationships and other matters that may reasonably be thought to bear on our independence, and where applicable, related safeguards.

Report on Other Legal and Regulatory Requirements

1. As required by 'the Companies (Auditor's Report) Order, 2016', issued by the Central Government of India in terms of sub-section (11) of section 143 of the Act ("the Order"), and on the basis of such checks of the books and records of the Company as we considered appropriate and according to the

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information and explanations given to us, we give in the "Annexure A" a statement on the matters specified in paragraphs 3 and 4 of the Order.

2. As required by Section 143(3) of the Act, we report that:

- a) We have sought and, except for the matters described in the Basis for Qualified Opinion paragraph, obtained all the information and explanations which to the best of our knowledge and belief were necessary for the purpose of our audit;
- b) Except for the possible effects of the matters described in the Basis for Qualified Opinion paragraph, in our opinion proper books of account required by law have been kept by the Company so far as appears from our examination of those books;
- c) The Balance Sheet, the Statement of Profit and Loss (including Other Comprehensive Income), the Cash Flow Statement and Statement of Changes in Equity dealt with by this Report are in agreement with the books of account;
- d) Except for the possible effects of the matters described in the Basis for Qualified Opinion paragraph, in our opinion, the aforesaid Ind AS financial statements comply with the Indian Accounting Standards specified under section 133 of the Act, read with the Companies (Indian Accounting Standards) Rules, 2015, as amended;
- e) The matters described in the Basis for Qualified Opinion paragraphs, Emphasis of Matter paragraphs, Material uncertainty related to going concern paragraph as above, in our opinion, may have an adverse effect on the functioning of the Company;
- f) On the basis of the written representations received from the directors as on March 31, 2019 taken on record by the Board of Directors, none of the directors is disqualified as on March 31, 2019 from being appointed as a director in terms of Section 164 (2) of the Act
- g) The qualification relating to the maintenance of accounts and other matters connected therewith are as stated in the Basis for Qualified Opinion paragraph above;
With respect to the adequacy of the internal financial controls over financial reporting of the Company and the operating effectiveness of such controls, refer to our separate Report in "Annexure - 2"
- h) The Company has not paid / provided any managerial remuneration for the year ended March 31, 2019, accordingly, the provisions of section 197 read with Schedule V to the Act are not applicable to the company
- i) With respect to the other matters to be included in the Auditor's Report in accordance with Rule 11 of the Companies (Audit and Auditors) Rules, 2014, in our opinion and to the best of our information and according to the explanations given to us:
 - i. The Company has disclosed the impact of pending litigations on its financial position in its Ind AS financial statements. Refer note 27 to the Ind AS financial statements;
 - ii. The Company did not have any long-term contracts including derivative contracts for which there were any material foreseeable losses; and
 - iii. There were no amounts which were required to be transferred to the Investor Education and Protection Fund by the Company.

For K.S.Rao & Co
 Chartered Accountants
 Firm's Registration No.003109S

P. Pardhasaradhi
 (Pardhasaradhi Rao)
 Partner
 Membership No. 224777

Place: Hyderabad
 Date: May 15, 2019

Annexure A to Independent Auditors' Report

Referred to in paragraph 1 under Report on Other Legal and Regulatory Requirements of the Independent Auditors' Report of even date to the members of GVK Power (Goindwal Sahib) Limited on the financial statements as of and for the year ended March 31, 2019. We report that:

- i. (a) The Company is maintaining proper records showing full particulars, including quantitative details and situation, of fixed assets.
 - (b) The fixed assets are physically verified by the Management during the year and no material discrepancies have been noticed on such verification.
 - (c) Based on our audit procedures performed for the purpose of reporting the true and fair view of the Ind AS Financial Statements and according to information and explanations given by the management, the title deeds of immovable properties included in property, plant and equipment are held, are held in the name of the Company.
- ii. The inventory has been physically verified by the Management during the year. In our opinion, the frequency of verification is reasonable. No material discrepancies were noticed in respect of such confirmations.
- iii. According to the information and explanation given to us and based on the audit procedures conducted by us, during the year the Company has not granted any loans, secured or unsecured, to companies, firms, limited liability partnerships or other parties covered in the register maintained under Section 189 of the Act. Therefore, the provisions of clause 3(iii) of the order are not applicable to the Company and hence not commented upon.
- iv. In our opinion and according to the information and explanations given to us, there are no loans, investments, guarantees, and securities granted in respect of which provisions of section 185 and 186 of the Companies Act 2013 are applicable and hence not commented upon.
- v. The Company has not accepted any deposits from the public within the meaning of Sections 73, 74, 75 and 76 of the Act and the rules framed there under to the extent notified. Therefore, the provision of Clause 3(v) of the Order is not applicable to the Company.
- vi. We have broadly reviewed the books of account maintained by the Company in respect of services where, pursuant to the rules made by the Central Government of India, the maintenance of cost records has been specified under sub-section (1) of Section 148 of the Act, and are of the opinion that, prima facie, the prescribed accounts and records have been made and maintained. We have not, however, made a detailed examination of the records with a view to determine whether they are accurate or complete.
- vii. (a) According to the information and explanations given to us and the records of the Company examined by us, in our opinion, the Company is regular in depositing the undisputed statutory dues, including provident fund, employees' state insurance, income tax, sales tax, service tax, duty of customs, value added tax, cess, goods and service tax and other material statutory dues, as applicable, with the appropriate authorities. As informed to us, the provisions relating to excise duty are not applicable to the Company.

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- (b) According to the information and explanations given to us, no undisputed amounts payable in respect of provident fund, employees' state insurance, income-tax, service tax, sales-tax, customs duty, value added tax, cess, goods and service tax and other material statutory dues were outstanding, at the year end, for a period of more than six months from the date they became payable.
- (c) According to the information and explanations given to us and the records of the Company examined by us, there are no dues of Income- Tax, Service tax, sales-tax, customs duty, value added tax, goods and service tax and cess which have not been deposited on account of any dispute.
- viii. According to the information and explanations given to us and the records of the Company examined by us, the Company has not issued any debentures and does not have borrowings from the government. The Company has defaulted in repayment of dues to banks detailed as under:

Name of the Bank	Amount in INR in Lakhs	Date of Default
IDBI Bank Limited	454.99	31.10.2017 to 31.03.2019
Union Bank of India	227.51	31.10.2017 to 31.03.2019
Axis Bank Limited	182.00	31.10.2017 to 31.03.2019
United Bank of India	177.96	31.10.2017 to 31.03.2019
Bank of Baroda	136.51	31.10.2017 to 31.03.2019
UCO Bank	136.23	31.10.2017 to 31.03.2019
Punjab & Sind Bank	132.73	31.10.2017 to 31.03.2019
Bank of India	91.01	31.10.2017 to 31.03.2019
Karnataka Bank	91.00	31.10.2017 to 31.03.2019
Indian Bank	89.26	31.10.2017 to 31.03.2019
Oriental Bank of Commerce	87.19	31.10.2017 to 31.03.2019
India Infrastructure Finance Company Limited	182.00	31.10.2017 to 31.03.2019
Life Insurance Corporation of India	182.00	31.10.2017 to 31.03.2019
Deutsche Bank	22,500.00	11.05.2018 to 31.03.2019

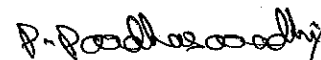
- ix. Based on our audit procedures performed for the purpose of reporting the true and fair view of the Ind AS Financial Statements and according to the information and explanations given by the management, during the year the Company has not raised any money way of initial public offer or further public offer (including debt instruments) and term loans. Accordingly, reporting on application of those funds doesn't arise.
- x. Based upon the audit procedures performed for the purpose of reporting the true and fair view of the Ind AS Financial Statements and according to the information and explanations given by the management, we report that no fraud by the Company or on the Company by the officers and employees of the Company has been noticed or reported during the year, nor have we been informed of any such case by the Management.
- xi. Based on our audit procedures performed for the purpose of reporting the true and fair view of the Ind AS Financial Statements and according to the information and explanations given by the management, we report that the company has not paid / provided managerial remuneration. Hence Clause 3(xi) of the order is not applicable to the company for the year under report.

P. Padhanababu



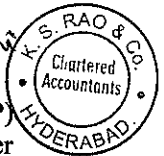
- xii. In our opinion, the Company is not a Nidhi company. Therefore, the provisions of clause 3(xii) of the order are not applicable to the Company and hence not commented upon.
- xiii. Based on our audit procedures performed for the purpose of reporting the true and fair view of the Ind AS Financial Statements and according to the information and explanations given by the management, transactions with the related parties are in compliance with section 177 and 188 of Companies Act, 2013 where applicable and the details have been disclosed in the notes to the Ind AS Financial Statements, as required under Indian Accounting Standard (Ind AS) 24, Related Party Disclosures specified under section 133 of the Act, read with the Companies (Indian Accounting Standards) Rules, 2015, as amended.
- xiv. According to the information and explanations given to us and on an overall examination of the balance sheet, the company has not made any preferential allotment or private placement of shares or fully or partly convertible debentures during the year and hence, reporting requirements under clause 3(xiv) are not applicable to the company and, not commented upon.
- xv. Based on our audit procedures performed for the purpose of reporting the true and fair view of the Ind AS Financial Statements and according to the information and explanations given by the management, the Company has not entered into any non-cash transactions with directors or persons connected with him.
- xvi. According to the information and explanations given to us, the provisions of section 45-IA of the Reserve Bank of India Act, 1934 are not applicable to the Company.

For K.S.Rao & Co
Chartered Accountants
Firm's Registration No.003109S



(Pardhasaradhi Rao P)
Partner

Membership No. 224777



Place: Hyderabad
Date: May 15, 2019

Annexure - 2 to Independent Auditors' Report

Referred to in paragraph 2(f) under Report on Other Legal and Regulatory Requirements of the Independent Auditors' Report of even date to the members of GVK Power (Goindwal Sahib) Limited on the Ind AS financial statements for the year ended March 31, 2019

Report on the Internal Financial Controls under Clause (i) of Sub-section 3 of Section 143 of the Companies Act, 2013 ("the Act")**To the Members of GVK Power (Goindwal Sahib) Limited**

1. We have audited the internal financial controls over financial reporting of GVK Power (Goindwal Sahib) Limited ("the Company") as of March 31, 2019 in conjunction with our audit of the Ind AS Financial Statements of the Company for the year ended on that date.


Management's Responsibility for Internal Financial Controls

2. The Company's Management is responsible for establishing and maintaining internal financial controls based on the internal control over financial reporting criteria established by the Company considering the essential components of internal control stated in the Guidance Note on Audit of Internal Financial Controls over Financial Reporting issued by the Institute of Chartered Accountants of India. These responsibilities include the design, implementation and maintenance of adequate internal financial controls that were operating effectively for ensuring the orderly and efficient conduct of its business, including adherence to the Company's policies, the safeguarding of its assets, the prevention and detection of frauds and errors, the accuracy and completeness of the accounting records, and the timely preparation of reliable financial information, as required under the Companies Act, 2013.

Auditor's Responsibility

3. Our responsibility is to express an opinion on the Company's internal financial controls over financial reporting based on our audit. We conducted our audit in accordance with the Guidance Note on Audit of Internal Financial Controls Over Financial Reporting (the "Guidance Note") and the Standards on Auditing as specified under section 143(10) of the Companies Act, 2013, to the extent applicable to an audit of internal financial controls, both applicable to an audit of Internal Financial Controls and, both issued by the Institute of Chartered Accountants of India. Those Standards and the Guidance Note require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether adequate internal financial controls over financial reporting was established and maintained and if such controls operated effectively in all material respects.
4. Our audit involves performing procedures to obtain audit evidence about the adequacy of the internal financial controls system over financial reporting and their operating effectiveness. Our audit of internal financial controls over financial reporting included obtaining an understanding of internal financial controls over financial reporting, assessing the risk that a material weakness exists, and testing and evaluating the design and operating effectiveness of internal control based on the assessed risk. The procedures selected depend on the auditor's judgement, including the assessment of the risks of material misstatement of the Ind AS Financial Statements, whether due to fraud or error.
5. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion on the internal financial controls system over financial reporting.

P. Padhmasree



Meaning of Internal Financial Controls Over Financial Reporting

6. A company's internal financial control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of Ind AS Financial Statements for external purposes in accordance with generally accepted accounting principles. A company's internal financial control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of Ind AS Financial Statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorisations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorised acquisition, use, or disposition of the company's assets that could have a material effect on the Ind AS Financial Statements.

Inherent Limitations of Internal Financial Controls Over Financial Reporting

7. Because of the inherent limitations of internal financial controls over financial reporting, including the possibility of collusion or improper management override of controls, material misstatements due to error or fraud may occur and not be detected. Also, projections of any evaluation of the internal financial controls over financial reporting to future periods are subject to the risk that the internal financial control over financial reporting may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

8. Qualified Opinion

According to the information and explanations given to us and based on our audit, the following material weaknesses have been identified as at March 31, 2019:

The Company's internal financial controls over use of assumptions for analysis of asset impairments were not operating effectively which could potentially result in the Company not recognising possible impairment losses


A 'material weakness' is a deficiency, or a combination of deficiencies, in internal financial control over financial reporting, such that there is a reasonable possibility that a material misstatement of the company's annual or interim financial statements will not be prevented or detected on a timely basis.

In our opinion, the Company has, in all material respects, maintained adequate internal financial controls over financial reporting as of March 31, 2019, based on the internal control over financial reporting criteria established by the Company considering the essential components of internal control stated in the Guidance Note on Audit of Internal Financial Controls Over Financial Reporting issued by the Institute of Chartered Accountants of India, and except for the possible effects of the material weakness described above on the achievement of the objectives of the control criteria, the Company's internal financial controls over financial reporting were operating effectively as of March 31, 2019.

9. Explanatory paragraph

We also have audited, in accordance with the Standards on Auditing issued by the Institute of Chartered Accountants of India, as specified under Section 143(10) of the Act, the Ind AS financial statements of GVK Power (Goindwal Sahib) Limited, which comprise the Balance Sheet as at March 31, 2019, and the related Statement of Profit and Loss including the Statement of Other

P. Radhika



Comprehensive Income, the Statement of Cash Flow for the year then ended, the Statement of Changes in Equity for the year then ended and a summary of significant accounting policies and other explanatory information. This material weakness was considered in determining the nature, timing, and extent of audit tests applied in our audit of the March 31, 2019 Ind AS financial statements of GVK Power (Goindwal Sahib) Limited and this report affect our report dated May 15, 2019, which expressed a qualified opinion on those Ind AS financial statements.

For K.S.Rao &Co
Chartered Accountants
Firm's Registration No.003109S

P. Pardhasaradhi
(Pardhasaradhi Rao P)
Partner



Membership No. 224777

Place: Hyderabad
Date: May 15, 2019

GVK Power (Goindwal Sahib) Limited
Balance Sheet as at March 31, 2019

(All amounts in INR lakhs unless otherwise stated)

Particulars	Notes	As at	
		March 31, 2019	March 31, 2018
ASSETS			
Non-current assets			
Property, plant and equipment	3	3,79,813.67	4,00,753.71
Intangible assets	4	1,556.58	1,796.55
Financial assets			
Investments	5	0.01	0.01
Other financial assets	6	402.84	225.02
Other non-current assets	7	6,818.99	6,818.99
Total Non - Current Assets		3,88,592.09	4,09,594.28
Current Assets			
Inventories	8	5,397.27	2,901.66
Financial assets			
Trade receivables	9	44,745.80	25,930.45
Cash and cash equivalents	10	22,125.29	24,686.09
Loans	11	6,544.77	6,544.77
Other financial assets	6	18.03	11.83
Current tax assets (net)	12	298.21	65.09
Other current assets	7	9,143.15	11,641.03
Total Current assets		88,272.52	71,780.92
Total Assets		4,76,864.61	4,81,375.20
EQUITY AND LIABILITIES			
Equity			
Equity share capital	13	1,26,519.56	1,26,519.56
Other equity	14	(2,18,608.11)	(1,51,812.65)
Total Equity		(92,088.55)	(25,293.09)
Liabilities			
Non-current liabilities			
Provisions	16	18.20	0.98
Total Non-current liabilities		18.20	0.98
Current liabilities			
Financial liabilities			
Borrowings	18	50,872.64	44,390.89
Trade payables - Total outstanding dues of:			
: Micro and Small Enterprises		-	-
: Creditors other than Micro and Small enterprises	19	5,024.21	4,023.08
Other financial liabilities	15	5,12,411.64	4,58,069.55
Provisions	16	55.28	43.91
Other current liabilities	17	571.19	139.88
Total Current liabilities		5,68,934.96	5,06,667.31
Total Liabilities		5,68,953.16	5,06,668.29
Total Equity and Liabilities		4,76,864.61	4,81,375.20
Corporate information	1		
Summary of significant accounting policies	2		

The accompanying notes form an integral part of the financial statements
This is the Balance sheet referred to our report.

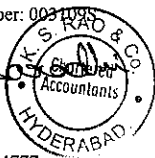
As per our report of even date

For K.S.Rao & Co.,
Chartered Accountants

Firms' Registration Number: 0031095

P. Pardhasarathi Rao P)
Partner

Membership Number: 224777



For and on behalf of the Board of Directors

P V Prasanna Reddy
Chairman
DIN:01259482

K N Bhavani Shankar
Chief Financial Officer

Babita Chandrakar
Company Secretary
Membership No : A43673

Place: Hyderabad
Date : May 15, 2019

GVK Power (Goindwal Sahib) Limited
Statement of Profit and Loss for the year ended March 31, 2019

Particulars	Notes	(All amounts in INR lakhs unless otherwise stated)	
		For the year ended March 31, 2019	For the year ended March 31, 2018
Income			
Revenue from operations	20	1,51,564.35	88,556.23
Other income	21	27.09	60.58
Total income		1,51,591.44	88,616.81
Expenses			
Cost of materials consumed		1,11,236.40	63,558.35
Employee benefits expense	22	1,266.59	998.72
Finance costs	23	71,527.28	62,693.65
Depreciation and amortisation expense	24	21,285.01	21,271.44
Other expenses	25	13,067.43	23,263.33
Total expenses		2,18,382.71	1,71,785.49
Loss before tax		(66,791.27)	(83,168.68)
Tax expense			
Current Tax		-	-
Excess provision of Income Tax of earlier years		1.73	-
Deferred tax		-	-
Total tax expense		1.73	-
Loss for the year		(66,789.54)	(83,168.68)
Other Comprehensive Income			
Items that will not be reclassified subsequently to profit or loss			
Remeasurements of defined benefit plans		(5.92)	9.17
Tax on above		-	-
Total other comprehensive income		(5.92)	9.17
Total comprehensive income for the year		(66,795.46)	(83,159.51)
Earnings per equity share	26		
(Par value of INR 10 each)			
Basic - INR		(5.28)	(6.61)
Diluted - INR		(5.28)	(6.61)

The accompanying notes form an integral part of the financial statements
This is the statement of Profit and Loss referred to our report

As per our report of even date

For K.S.Rao & Co.,
Chartered Accountants
Firms' Registration Number: 003109S

P. Pardhasaradhi
(Pardhasaradhi Rao P)
Partner
Membership Number: 224777



Place: Hyderabad
Date : May 15, 2019

For and on behalf of the Board of Directors

P V Prasanna Reddy
Chairman
DIN:01259482

K N Bhavani Shankar
Chief Financial Officer

B. Chandrakar
Babita Chandrakar
Company Secretary
Membership No : A43673

GVK Power (Goindwal Sahib) Limited
Statement of changes in equity for the year ended March 31, 2019

(All amounts in INR lakhs unless otherwise stated)

a. Equity

Equity shares of INR 10 each issued and subscribed	Number of Shares	Amount
Balance as at April 01, 2017	1,25,17,87,810	1,25,178.78
Additions during the year	1,34,07,820	1,340.78
Balance as at March 31, 2018	1,26,51,95,630	1,26,519.56
Additions during the year	-	-
Balance as at March 31, 2019	1,26,51,95,630	1,26,519.56

b. Other Equity

Particulars	Share application money pending allotment	Retained earnings	Other Comprehensive Income	Total
Balance as at April 01, 2017	-	(68,660.69)	7.55	(68,653.14)
Share Application Money Received	1,340.78	-	-	1,340.78
Shares issued	(1,340.78)	-	-	(1,340.78)
Loss for the year	-	(83,168.68)	-	(83,168.68)
Remeasurements of defined benefit plans	-	-	9.17	9.17
Balance as at March 31, 2018	-	(1,51,829.37)	16.72	(1,51,812.65)
Loss for the year	-	(66,789.54)	-	(66,789.54)
Remeasurements of defined benefit plans	-	-	(5.92)	(5.92)
Balance as at March 31, 2019	-	(2,18,618.91)	10.80	(2,18,608.11)

Corporate information 1
Summary of significant accounting policies 2

The accompanying notes form an integral part of the financial statements
This is the statement of changes in Equity referred to our report

As per our report of even date

For K.S.Rao & Co.,
Chartered Accountants

Firms' Registration Number: 003109S

For and on behalf of the Board of Directors

(Pardhasaradhi Rao P)
Partner

Membership Number: 224777



P V Prasanna Reddy
Chairman
DIN:01259482

K N Bhavani Shankar
Chief Financial Officer

Babita Chandrakar
Company Secretary
Membership No : A43673

Place: Hyderabad
Date : May 15, 2019

GVK Power (Goindwal Sahib) Limited
Cash Flow Statement for the year ended 31st March 2018

(All amounts in INR lakhs unless otherwise stated)

Particulars	For the year ended March 31, 2019	For the year ended March 31, 2018
A. CASH FLOW FROM OPERATING ACTIVITIES		
Loss before tax	(66,791.27)	(83,168.68)
Adjustments for :		
Depreciation and amortisation expense	21,285.01	21,271.44
Interest expenses	71,527.28	62,693.65
Interest income	(22.47)	(46.94)
Bad debts written off	1,842.42	-
Provision for doubtful debts	3,970.00	-
Credit balances written back	(0.22)	(4.71)
Inventory Written off	-	52.81
Liquidated Damages	1,737.18	-
Provision for diminution in value of investments	-	11.56
Operating profit before changes in operating assets and liabilities	<u>33,547.93</u>	<u>809.13</u>
Adjustments for (increase) / decrease in operating assets:		
Loans	-	(6.34)
Trade receivables	(24,627.77)	(23,152.07)
Inventories	(2,495.61)	(588.90)
Other financial assets	(177.71)	19.83
Other assets	2,497.88	(6,407.83)
Adjustments for increase / (decrease) in operating liabilities:		
Trade payables	1,001.35	(42.16)
Other financial liabilities	811.23	5,813.98
Other liabilities	431.31	72.31
Provisions	24.40	12.81
Cash generated from operations	<u>11,013.01</u>	<u>(23,469.24)</u>
Income tax paid Net	<u>(233.12)</u>	<u>(61.85)</u>
Net cash flow from/used in operating activities (A)	<u>10,779.89</u>	<u>(23,531.09)</u>
B. CASH FLOW FROM INVESTING ACTIVITIES		
Capital expenditure on fixed assets, including capital advances	(88.34)	14,831.20
Proceeds from/(Investment) in fixed deposits	(0.11)	(0.10)
Proceeds from/(Investment) in long-term investments	-	(11.56)
Interest received	16.27	37.02
Net cash flow from/(used in) investing activities (B)	<u>(72.18)</u>	<u>14,856.56</u>
C. CASH FLOW FROM FINANCING ACTIVITIES		
Proceeds from issue of equity shares	-	1,340.78
Interest paid	(17,691.82)	(53,475.07)
Proceeds from Non Current Borrowings	-	70,973.23
Repayments of Non Current Borrowings	(2,058.44)	-
Increase in Working Capital facilities	6,481.75	14,478.42
Net cash flow from/(used in) financing activities (C)	<u>(13,268.51)</u>	<u>33,317.36</u>
Net Increase/(decrease) in Cash and cash equivalents (A+B+C)	<u>(2,560.80)</u>	<u>24,642.83</u>
Cash and cash equivalents at the beginning of the year	<u>24,686.09</u>	<u>43.26</u>
Cash and cash equivalents at the end of the year	<u>22,125.29</u>	<u>24,686.09</u>
Cash and Cash Equivalents		
Balances with banks in current accounts (Refer note-10)	20,832.94	21,260.54
Demand drafts in hand	1,292.35	3,425.55
	<u>22,125.29</u>	<u>24,686.09</u>
Corporate information	1	
Summary of significant accounting policies	2	

The accompanying notes form an integral part of the financial statements
This is the Cash Flow Statement referred to our report

As per our report of even date

For K.S.Rao & Co.,

Chartered Accountants

Firms' Registration Number: 003109S

(Pardhasaradhi Rao P)

Partner

Membership Number: 224777



For and on behalf of the Board of Directors

P V Prasanna Reddy
P V Prasanna Reddy
Chairman
DIN:01259482

K N Bhavani Shankar
K N Bhavani Shankar
Chief Financial Officer

B. Chandrakar
Babita Chandrakar
Company Secretary
Membership No : A43673

Place: Hyderabad

Date : May 15, 2019

GVK Power (Goindwal Sahib) Limited

Notes to financial statements for the year ended March 31, 2019

(All amounts in INR lakhs unless otherwise stated)

1 Corporate information

GVK Power (Goindwal Sahib) Limited ("the company") was incorporated on 04 December, 1997 in the erstwhile state of Andhra Pradesh, India in accordance with the provisions of the Companies Act, 1956. The Company has become subsidiary of GVK Energy Limited with effect from 30th June, 2010.

The Company is engaged in the business of Generation and sale of electricity. The company entered into a Power Purchase Agreement ("PPA") with Punjab State Power Corporation Limited (formerly known as Punjab State Electricity Board) ("PSPCL") for supply of power from its 540 MW coal based thermal electricity generation plant situated near Goindwal Sahib, Tarn Taran Dist, Punjab, India on 26th May, 2009. The plant started its commercial operation with effect from 16th April, 2016.

These financial statements have been authorised for issue by Board of Directors of the Company in their meeting held on May 15, 2019.

2 Basis of preparation and Statement of significant accounting policies**2.1 (a) Basis of preparation**

The financial statements of the Company have been prepared in accordance with Indian Accounting Standards (Ind AS) notified pursuant to section 133 of the Companies Act 2013 read with the Companies (Indian Accounting Standards) Rules, 2015 (as amended from time to time).

These financial statements have been prepared on a historical cost basis, except certain financial instruments measured at fair value (refer accounting policy regarding financial instruments).

The financial statements are presented in Indian Rupees (INR) and all values are rounded to the nearest lakhs (INR 00,000), except when otherwise indicated.

Changes in Accounting treatments and disclosures as per new and amended standards**Ind AS 115 Revenue from Contracts with Customers**

The company has adopted the Ind AS 115 "Revenue from Contracts with Customers" with effect from April 1, 2018 as notified on March 28, 2018 and established a five-step model to account for revenue arising from contracts with customers. The new revenue standard supersedes all previous recognition requirements under Ind AS . This new standard requires revenue to be recognized when promised goods or services are transferred to customers in amounts that reflect the consideration to which the Company expects to be entitled in exchange for those goods or services. Adoption of the new rules has not affected the timing of revenue recognition for certain transactions of the company. Ind AS 115 permits two possible methods of transition:

a) Retrospectively to each prior reporting period presented in accordance with Ind AS 8 [Accounting Policies, Changes in Accounting Estimates and Errors] with the option to elect certain practical expedients as defined within Ind AS 115 (the full retrospective method); or

b) Retrospectively with the cumulative effect of initially applying Ind AS 115 recognized at the date of initial application (April 1, 2018) and providing certain additional disclosures as defined in Ind AS 115 (the modified retrospective method).

The Company has applied the modified retrospective approach, However the application of Ind AS 115 has not consequentially impacted the Company's retained earnings at April 1, 2018.

As the company has adopted modified retrospective approach, Unbilled revenue and advance from customer have been regrouped from other financial assets and current and non current liabilities to Contract Assets and Contract Liabilities respectively as compared to April 1, 2018.



GVK Power (Goindwal Sahib) Limited

Notes to financial statements for the year ended March 31, 2019

(All amounts in INR lakhs unless otherwise stated)

(b) Current versus non-current classification

The Company presents assets and liabilities in the balance sheet based on current/ non-current classification.

An asset is treated as current when it is:

- Expected to be realised or intended to be sold or consumed in normal operating cycle
- Held primarily for the purpose of trading
- Expected to be realised within twelve months after the reporting period, or
- Cash or cash equivalent unless restricted from being exchanged or used to settle a liability for at least twelve months after the reporting period

All other assets are classified as non-current.

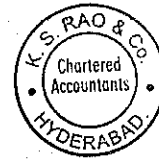
A liability is current when:

- It is expected to be settled in normal operating cycle
- It is held primarily for the purpose of trading
- It is due to be settled within twelve months after the reporting period, or
- There is no unconditional right to defer the settlement of the liability for at least twelve months after the reporting period

The Company classifies all other liabilities as non-current.

Deferred tax assets and liabilities are classified as non-current assets and liabilities.

The operating cycle is the time between the acquisition of assets for processing and their realisation in cash and cash equivalents. The Company has identified twelve months as its operating cycle.



GVK Power (Goindwal Sahib) Limited

Notes to financial statements for the year ended March 31, 2019

(All amounts in INR lakhs unless otherwise stated)

(c) Fair value measurement

The Company measures financial instruments at fair value at each balance sheet date.

Financial Instrument measured at Amortised Cost: The carrying amount of financial assets and financial liabilities measured at amortised cost in the financial statements are a reasonable approximation of their fair values since the Company does not anticipate that the carrying amounts would be significantly different from the values that would eventually be received or settled. Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. The fair value measurement is based on the presumption that the transaction to sell the asset or transfer the liability takes place either:

- In the principal market for the asset or liability, or
- In the absence of a principal market, in the most advantageous market for the asset or liability

The principal or the most advantageous market must be accessible by the Company.

The Company uses valuation techniques that are appropriate in the circumstances and for which sufficient data are available to measure fair value, maximising the use of relevant observable inputs and minimising the use of unobservable inputs.

Financial Instrument measured at Amortised Cost: The carrying amount of financial assets and financial liabilities measured at amortised cost in the financial statements are a reasonable approximation of their fair values since the Company does not anticipate that the carrying amounts would be significantly different from the values that would eventually be received or settled. All assets and liabilities for which fair value is measured or disclosed in the financial statements are categorised within the fair value hierarchy, described as follows, based on the lowest level input that is significant to the fair value measurement as a whole:

- Level 1: Quoted (unadjusted) market prices in active markets for identical assets or liabilities
- Level 2: Valuation techniques for which the lowest level input that is significant to the fair value measurement is directly or indirectly observable
- Level 3: Valuation techniques for which the lowest level input that is significant to the fair value measurement is unobservable

For assets and liabilities that are recognised in the financial statements on a recurring basis, the Company determines whether transfers have occurred between levels in the hierarchy by re-assessing categorisation (based on the lowest level input that is significant to the fair value measurement as a whole) at the end of each reporting period.

For the purpose of fair value disclosures, the Company has determined classes of assets and liabilities on the basis of the nature, characteristics and risks of the asset or liability and the level of the fair value hierarchy as explained above.

(d) Use of estimates

The preparation of the financial statements in conformity with Ind AS, requires management to make estimates and assumptions considered in the reported amounts of assets and liabilities (including disclosure of contingent liabilities) and the reported income and expenses during the year. The Management believes that the estimates used in preparation of the financial statements are prudent and reasonable. Future results could differ due to these estimates and the differences between the actual results and the estimates are recognised in the periods in which the results are known / materialised. Revisions to accounting estimates are recognised prospectively in the Statement of Profit and Loss in the period in which the estimates are revised and in any future periods affected.



GVK Power (Goindwal Sahib) Limited

Notes to financial statements for the year ended March 31, 2019

(All amounts in INR lakhs unless otherwise stated)

2.2 Summary of significant accounting policies**(a) Revenue recognition**

Revenue is recognised to the extent that it is probable that the economic benefits will flow to the Company and the revenue can be reliably measured, regardless of when the payment is being made. Revenue is measured at the fair value of the consideration received or receivable, taking into account contractually defined terms of payment and excluding taxes or duties collected on behalf of the government.

The specific recognition criteria described below must also be met before revenue is recognised.

Sale of Power

Revenue from sale of power is recognised when power is supplied to the customer which coincides with generation of power in accordance with the provisions of the Power Purchase Agreement ("PPA") with Punjab State Power Corporation Limited ("PSPCL")

Rebate, if any, is estimated and provided for in the year of sales and recorded as reduction from revenue. Such rebate is accrued and estimated based on historical average rate actually claimed over a period of time.

Contract balances**Contract assets**

A contract asset is the right to consideration in exchange for services transferred to the customer (which consist of unbilled revenue). If the Company performs by transferring services to a customer before the customer pays consideration or before payment is due, a contract asset is recognized for the earned consideration that is conditional.

Trade receivables

A receivable represents the Company's right to an amount of consideration that is unconditional (i.e. only the passage of time is required before the payment of the consideration is due).

Contract liabilities

A contract liability is the obligation to transfer services to a customer for which the Company has received consideration from the customer. If a customer pays a consideration before the Company transfers services to the customer, a contract liability is recognized when the payment is made. Contract liabilities are recognized as revenue when the Company performs under the contract.

Interest income

For all debt instruments measured either at amortised cost or at fair value through other comprehensive income, interest income is recorded using the effective interest rate (EIR). EIR is the rate that exactly discounts the estimated future cash payments or receipts over the expected life of the financial instrument or a shorter period, where appropriate, to the gross carrying amount of the financial asset or to the amortised cost of a financial liability. When calculating the effective interest rate, the company estimates the expected cash flows by considering all the contractual terms of the financial instrument (for example, prepayment, extension, call and similar options) but does not consider the expected credit losses. Interest income is included in finance income in the statement of profit and loss.

Dividends

Revenue is recognised when the Company's right to receive the payment is established, which is generally when shareholders approve the dividend.

(b) Property, plant and equipment

Property, plant and equipment (PPE) including land are stated at cost, net of credit availed in respect of any taxes, duties less accumulated depreciation and accumulated impairment losses, if any. Such cost includes purchase price and any attributable cost of bringing the asset to its working condition for its intended use. Financing costs relating to acquisition of Property, plant and equipment which takes substantial period of time to get ready for intended use are also included to the extent they relate to the period upto such assets are ready for their intended use. Expenditure directly relating to construction/erection activity is capitalized. Indirect expenditure incurred during construction/erection period is capitalized as part of the construction/erection cost to the extent such expenditure is related to construction or is incidental thereto.



GVK Power (Goindwal Sahib) Limited

Notes to financial statements for the year ended March 31, 2019

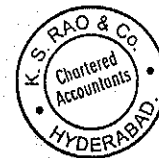
(All amounts in INR lakhs unless otherwise stated)

Spare parts relating to Plant and Equipment are capitalised provided the useful life of the same is more than 12 months (Capital Spares).

Subsequent costs are included in the asset's carrying amount or recognised as a separate asset, as appropriate, only when it is probable that future economic benefits associated with the item will flow to the company and the cost of the item can be measured reliably. The carrying amount of any component accounted for as separate asset is derecognized when replaced. All other repairs and maintenance are charged to profit or loss during the reporting period in which they are incurred.

Derecognition

An item of property, plant and equipment and any significant part initially recognised is derecognised upon disposal or when no future economic benefits are expected from its use or disposal. Any gain or loss arising on derecognition of the asset (calculated as the difference between the net disposal proceeds and the carrying amount of the asset) is included in the income statement when the asset is derecognised.



GVK Power (Goindwal Sahib) Limited

Notes to financial statements for the year ended March 31, 2019

(All amounts in INR lakhs unless otherwise stated)

Depreciation methods, estimated useful lives and residual value

(i) "Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2014" dated 21st February, 2014 has defined "Generating Station". Accordingly depreciation on the assets covered under the definition of Generating Station has been provided under Straight Line Method at the rates and the manner prescribed under the said regulations as notified vide circular no. 31/2011 dated 31st May, 2011 (CERC Regulations") by Ministry of Corporate Affairs.

(ii) Other tangible assets are depreciated under straight line method at the rates specified under CERC regulations, except for the assets individually costing Rs. 5,000/- or less, which are fully depreciated in the year of acquisition.

The residual values, useful lives and methods of depreciation of property, plant and equipment are reviewed at each financial period/year end and adjusted prospectively, if appropriate.

(c) Intangible assets

Intangible assets with finite useful lives that are acquired separately are carried at cost, net of accumulated amortisation and impairment losses, if any. Cost of an intangible asset comprises of purchase price and attributable expenditure on making the asset ready for its intended use. Amortisation is recognised on a straight-line basis over their estimated useful lives of an asset. The estimated useful life and amortisation method are reviewed at the end of each reporting period, with the effect of any changes in estimate being accounted for on a prospective basis.

An intangible asset is derecognised on disposal, or when no future economic benefits are expected from use or disposal. Gains or losses arising from derecognition of an intangible asset, measured as the difference between the net disposal proceeds and the carrying amount of the asset, are recognised in Statement of Profit or Loss when the asset is derecognised.

Amortization methods and periods

The Company amortises intangible assets with finite useful life over the following periods:

- i) Computer software including software user licenses - 3 years.
- ii) Right to use railway line - 10 years.

(d) Borrowing costs

Borrowing costs directly attributable to the acquisition, construction or production of an asset that necessarily takes a substantial period of time to get ready for its intended use or sale are capitalised as part of the cost of the asset. All other borrowing costs are expensed in the period in which they occur. Borrowing costs consist of interest and other costs that an entity incurs in connection with the borrowing of funds. Additional and Penal Interest are accounted as and when charged by the lenders

(e) Impairment of non-financial assets

The Company assesses, at each reporting date, whether there is an indication that an asset may be impaired. If any indication exists, or when annual impairment testing for an asset is required, the Company estimates the asset's recoverable amount. An asset's recoverable amount is the higher of an asset's or cash-generating unit's (CGU) fair value less costs of disposal and its value in use. Recoverable amount is determined for an individual asset, unless the asset does not generate cash inflows that are largely independent of those from other assets or groups of assets. When the carrying amount of an asset or CGU exceeds its recoverable amount, the asset is considered impaired and is written down to its recoverable amount.

In assessing value in use, the estimated future cash flows are discounted to their present value using a pre-tax discount rate that reflects current market assessments of the time value of money and the risks specific to the asset. In determining fair value less costs of disposal, recent market transactions are taken into account. If no such transactions can be identified, an appropriate valuation model is used. These calculations are corroborated by valuation multiples, quoted share prices for publicly traded companies or other available fair value indicators.



GVK Power (Goindwal Sahib) Limited

Notes to financial statements for the year ended March 31, 2019

(All amounts in INR lakhs unless otherwise stated)

The Company bases its impairment calculation on detailed budgets and forecast calculations, which are prepared separately for each of the Company's CGUs to which the individual assets are allocated. These budgets and forecast calculations generally cover a period of five years. For longer periods, a long-term growth rate is calculated and applied to project future cash flows after the fifth year. To estimate cash flow projections beyond periods covered by the most recent budgets/forecasts, the Company extrapolates cash flow projections in the budget using a steady or declining growth rate for subsequent years, unless an increasing rate can be justified. In any case, this growth rate does not exceed the long-term average growth rate for the products, industries, or country or countries in which the entity operates, or for the market in which the asset is used.

An assessment is made at each reporting date to determine whether there is an indication that previously recognised impairment losses no longer exist or have decreased. If such indication exists, the Company estimates the asset's or CGU's recoverable amount. A previously recognised impairment loss is reversed only if there has been a change in the assumptions used to determine the asset's recoverable amount since the last impairment loss was recognised. The reversal is limited so that the carrying amount of the asset does not exceed its recoverable amount, nor exceed the carrying amount that would have been determined, net of depreciation, had no impairment loss been recognised for the asset in prior periods/ years. Such reversal is recognised in the statement of profit or loss unless the asset is carried at a revalued amount, in which case, the reversal is treated as a revaluation increase.

(f) Taxes**Current income tax**

Current income tax assets and liabilities are measured at the amount expected to be recovered from or paid to the taxation authorities. The tax rates and tax laws used to compute the amount are those that are enacted or substantively enacted, at the reporting date in accordance with the Income tax Act, 1961.

Current income tax relating to items recognised outside profit or loss is recognised outside profit or loss (either in other comprehensive income or in equity). Current tax items are recognised in correlation to the underlying transaction either in OCI or directly in equity. Management periodically evaluates positions taken in the tax returns with respect to situations in which applicable tax regulations are subject to interpretation and establishes provisions where appropriate.

Deferred tax

Deferred tax is provided using the liability method on temporary differences between the tax bases of assets and liabilities and their carrying amounts for financial reporting purposes at the reporting date. Deferred tax liabilities are recognised for all taxable temporary differences.

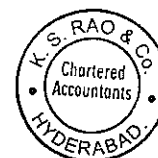
Deferred tax assets are recognised for all deductible temporary differences, the carry forward of unused tax credits and any unused tax losses. Deferred tax assets are recognised to the extent that it is probable that taxable profit will be available against which the deductible temporary differences, and the carry forward of unused tax credits and unused tax losses can be utilized.

The carrying amount of deferred tax assets is reviewed at each reporting date and reduced to the extent that it is no longer probable that sufficient taxable profit will be available to allow all or part of the deferred tax asset to be utilised. Unrecognised deferred tax assets are re-assessed at each reporting date and are recognised to the extent that it has become probable that future taxable profits will allow the deferred tax asset to be recovered.

Deferred tax assets and liabilities are measured at the tax rates that are expected to apply in the period/year when the asset is realised or the liability is settled, based on tax rates and tax laws that have been enacted or substantively enacted at the reporting date.

Deferred tax relating to items recognised outside profit or loss is recognised outside profit or loss (either in other comprehensive income or in equity). Deferred tax items are recognised in correlation to the underlying transaction either in OCI or directly in equity.

Deferred tax assets and deferred tax liabilities are offset if a legally enforceable right exists to set off current tax assets against current tax liabilities and the deferred taxes relate to the same taxable entity and the same taxation authority.



GVK Power (Goindwal Sahib) Limited

Notes to financial statements for the year ended March 31, 2019

(All amounts in INR lakhs unless otherwise stated)

(g) Foreign currencies

The financial statements are presented in Indian rupees which is the functional currency of the Company and the currency of the primary economic environment in which the Company operates.

Transactions and balances

Transactions in foreign currencies are initially recorded at their respective functional currency spot rates at the date the transaction first qualifies for recognition. However, for practical reasons, the Company uses an average rate if the average approximates the actual rate at the date of the transaction. Monetary assets and liabilities denominated in foreign currencies are translated at the functional currency spot rates of exchange at the reporting date. Exchange differences arising on settlement or translation of monetary items are recognised in profit or loss.

Non-monetary items that are measured in terms of historical cost in a foreign currency are translated using the exchange rates at the dates of the initial transactions. Non-monetary items measured at fair value in a foreign currency are translated using the exchange rates at the date when the fair value is determined. The gain or loss arising on translation of non-monetary items measured at fair value is treated in line with the recognition of the gain or loss on the change in fair value of the item (i.e., translation differences on items whose fair value gain or loss is recognised in OCI or profit or loss are also recognised in OCI or profit or loss, respectively).

(h) (i) Provisions

Provisions are recognised when the Company has a present obligation (legal or constructive) as a result of a past event, it is probable that an outflow of resources embodying economic benefits will be required to settle the obligation and a reliable estimate can be made of the amount of the obligation. When the Company expects some or all of a provision to be reimbursed, for example, under an insurance contract, the reimbursement is recognised as a separate asset, but only when the reimbursement is virtually certain. The expense relating to a provision is presented in the statement of profit and loss net of any reimbursement.

If the effect of the time value of money is material, provisions are discounted using a current pre-tax rate that reflects, when appropriate, the risks specific to the liability. When discounting is used, the increase in the provision due to the passage of time is recognised as a finance cost.

(ii) Contingent liabilities and contingent assets

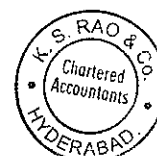
Contingent liability : A contingent liability is a possible obligation that arises from past events whose existence will be confirmed by the occurrence or non-occurrence of one or more uncertain future events beyond the control of the Company or a present obligation that is not recognized because it is not possible that an outflow of resources will be required to settle the obligation. A contingent liability also arises in extremely rare cases where there is a liability that cannot be recognized because it cannot be measured reliably.

The Company does not recognize a contingent liability but discloses its existence in the financial statements.

Contingent asset: A contingent asset is a possible asset that arises from past events and whose existence will be confirmed only by the occurrence or non-occurrence of one or more uncertain future events not wholly within the control of the entity.

(i) Employee benefits**(i) Short-term obligations**

Liabilities for wages and salaries, including non-monetary benefits that are expected to be settled wholly within 12 months after the end of the period in which the employees render the related service are recognized in respect of employees' services up to the end of the reporting period and are measured at the amounts expected to be paid when the liabilities are settled. The liabilities are presented as current employee benefit obligations in the balance sheet.



GVK Power (Goindwal Sahib) Limited

Notes to financial statements for the year ended March 31, 2019

(All amounts in INR lakhs unless otherwise stated)

(ii) Other long-term employee benefit obligations

The liabilities for earned leave are not expected to be settled wholly within 12 months after the end of the period in which the employees render the related service. They are therefore measured as the present value of expected future payments to be made in respect of services provided by employees up to the end of the reporting period using the projected unit credit method by actuary. The benefit are discounted using the market yields at the end of the reporting period that have terms approximating to the terms of the related obligations. Remeasurements as a result of the experience adjustments and changes in actuarial assumptions are recognized in profit or loss.

(iii) Post-employment obligations

The company operates the following post-employment schemes:

- (a) Defined benefit plans such as gratuity and
- (b) Defined contribution plans such as provident fund.

Defined benefit obligation**Gratuity plan**

The liability or assets recognized in the balance sheet in respect of defined benefit plans is the present value of the defined benefit obligations at the end of the reporting period less the fair value of plan assets. The defined benefit obligation is calculated annually by actuaries using the projected unit credit method.

The present value of the defined benefit obligation is determined by discounting the estimated future cash outflows by reference to market yields at the end of the reporting period on government bonds that have terms approximating to the terms of the related obligation.

The net interest cost is calculated by applying the discount rate to the net balance of the defined benefit obligation and the fair value of plan assets. This cost is included in employee benefit expense in the statement of profit and loss.

Remeasurement gains and losses arising from experience adjustments and change in actuarial assumptions are recognized in the period in which they occur, directly in other comprehensive income. They are included in retained earnings in the statement of changes in equity and in the balance sheet.

The Company recognises the following changes in the net defined benefit obligation as an expense in the statement of profit and loss:

- ▶ Service costs comprising current service costs, past-service costs, gains and losses on curtailments and non-routine settlements; and
- ▶ Net interest expense or income

Compensated absence

The company has a policy on compensated absences which are both accumulating and non-accumulating in nature. The expected cost of accumulating compensated absences is determined by actuarial valuation performed by an independent actuary at each balance sheet date using projected unit credit method on the additional amount expected to be paid/availed as a result of the unused entitlement that has accumulated at the balance sheet date. Expense on non-accumulating compensated absences is recognized in the period in which the absences occur.

Defined contribution plan**Provident Fund and Employees State Insurance**

Retirement and other employee benefits in the form of provident fund and Employees State Insurance Contribution are defined contribution scheme and the contributions are charged to the Statement of Profit and Loss of the period when the contributions to the respective funds are due.



GVK Power (Goindwal Sahib) Limited

Notes to financial statements for the year ended March 31, 2019

(All amounts in INR lakhs unless otherwise stated)

(j) Financial instruments

A financial instrument is any contract that gives rise to a financial asset of one entity and a financial liability or equity instrument of another entity.

Financial assets**Initial recognition and measurement**

All financial assets are recognised initially at fair value plus, in the case of financial assets not recorded at fair value through profit or loss, transaction costs that are attributable to the acquisition of the financial asset.

Subsequent measurement

For purposes of subsequent measurement, a 'debt instrument' is measured at the amortised cost if both the following

- a) The asset is held within a business model whose objective is to hold assets for collecting contractual cash flows, and
- b) Contractual terms of the asset give rise on specified dates to cash flows that are solely payments of principal and interest (SPPI) on the principal amount outstanding.

This category is the most relevant to the Company. After initial measurement, such financial assets are subsequently measured at amortised cost using the effective interest rate (EIR) method. Amortised cost is calculated by taking into account any discount or premium on acquisition and fees or costs that are an integral part of the EIR. The EIR amortisation is included in finance income in the profit or loss. The losses arising from impairment are recognised in the profit or loss. This category generally applies to trade and other receivables.

Equity investments:

In respect of equity investments, when an entity prepares separate financial statements, Ind AS 27 requires it to account for its investments in subsidiaries and associates either:

- (a) at cost; or
- (b) in accordance with Ind AS 109.

Derecognition

A financial asset (or, where applicable, a part of a financial asset or part of a group of similar financial assets) is primarily derecognised (i.e. removed from the Company's balance sheet) when:

- a) the rights to receive cash flows from the asset have expired, or
- b) the Company has transferred its rights to receive cash flows from the asset, and
 - i. the Company has transferred substantially all the risks and rewards of the asset, or
 - ii. the Company has neither transferred nor retained substantially all the risks and rewards of the asset, but has transferred control of the asset.

Impairment of financial assets

In accordance with Ind AS 109 Financial Instruments, the Company applies expected credit loss (ECL) model for measurement and recognition of impairment loss on the following financial assets and credit risk exposure:

- a) Financial assets that are debt instruments, and are measured at amortised cost e.g., loans, debt securities, deposits, trade receivables and bank balance
- b) Trade receivables or any contractual right to receive cash or another financial asset that result from transactions that are within the scope of Ind AS 115 Revenue from Contracts with Customers.
- c) Loan commitments which are not measured as at FVTPL

The Company follows 'simplified approach' for recognition of impairment loss allowance on trade receivables

The application of simplified approach does not require the Company to track changes in credit risk. Rather, it recognises impairment loss allowance based on lifetime ECLs at each reporting date, right from its initial recognition.



GVK Power (Goindwal Sahib) Limited

Notes to financial statements for the year ended March 31, 2019

(All amounts in INR lakhs unless otherwise stated)

For recognition of impairment loss on other financial assets and risk exposure, the Company determines that whether there has been a significant increase in the credit risk since initial recognition. If credit risk has not increased significantly, 12-month ECL is used to provide for impairment loss. However, if credit risk has increased significantly, lifetime ECL is used. If, in a subsequent period, credit quality of the instrument improves such that there is no longer a significant increase in credit risk since initial recognition, then the entity reverts to recognising impairment loss allowance based on 12-month ECL.

Lifetime ECL are the expected credit losses resulting from all possible default events over the expected life of a financial instrument. The 12-month ECL is a portion of the lifetime ECL which results from default events that are possible within 12 months after the reporting date.

ECL is the difference between all contractual cash flows that are due to the Company in accordance with the contract and all the cash flows that the entity expects to receive (i.e., all cash shortfalls), discounted at the original EIR. When estimating the cash flows, an entity is required to consider:

► All contractual terms of the financial instrument (including prepayment, extension, call and similar options) over the expected life of the financial instrument. However, in rare cases when the expected life of the financial instrument cannot be estimated reliably, then the entity is required to use the remaining contractual term of the financial instrument

ECL impairment loss allowance (or reversal) recognized during the period is recognized as income/ expense in the statement of profit and loss (P&L). This amount is reflected under the head 'other expenses' in the P&L. The balance sheet presentation for various financial instruments is described below:

► Financial assets measured as at amortised cost: ECL is presented as an allowance, i.e., as an integral part of the measurement of those assets in the balance sheet. The allowance reduces the net carrying amount. Until the asset meets write-off criteria, the Company does not reduce impairment allowance from the gross carrying amount.

► Loan commitments and financial guarantee contracts: ECL is presented as a provision in the balance sheet, i.e. as a liability.

Financial liabilities**Initial recognition and measurement**

Financial liabilities are classified, at initial recognition, as financial liabilities at fair value through profit or loss, loans and borrowings, payables, or as derivatives designated as hedging instruments in an effective hedge, as appropriate.

All financial liabilities are recognised initially at fair value and, in the case of loans and borrowings and payables, net of directly attributable transaction costs.

The Company's financial liabilities include trade and other payables, loans and borrowings, financial guarantee contracts.

Subsequent measurement

The measurement of financial liabilities depends on their classification, as described below:

Loans and borrowings

This is the category most relevant to the Company. After initial recognition, interest-bearing loans and borrowings are subsequently measured at amortised cost using the EIR method. Gains and losses are recognised in profit or loss when the liabilities are derecognised as well as through the EIR amortisation process.

Amortised cost is calculated by taking into account any discount or premium on acquisition and fees or costs that are an integral part of the EIR. The EIR amortisation is included as finance costs in the statement of profit and loss.

Financial liabilities at fair value through profit or loss

Financial liabilities at fair value through profit or loss include financial liabilities designated upon initial recognition as at fair value through profit or loss.



GVK Power (Goindwal Sahib) Limited

Notes to financial statements for the year ended March 31, 2019

(All amounts in INR lakhs unless otherwise stated)

Financial liabilities designated upon initial recognition at fair value through profit or loss are designated as such at the initial date of recognition, and only if the criteria in Ind AS 109 Financial Instruments, are satisfied. For liabilities designated as FVTPL, fair value gains/ losses attributable to changes in own credit risk are recognized in OCI. These gains/ loss are not subsequently transferred to Statement of Profit and Loss. However, the Company may transfer the cumulative gain or loss within equity. All other changes in fair value of such liability are recognised in the statement of profit or loss. The Company has not designated any financial liability as at fair value through profit and loss.

Derecognition

A financial liability is derecognised when the obligation under the liability is discharged or cancelled or expires. When an existing financial liability is replaced by another from the same lender on substantially different terms, or the terms of an existing liability are substantially modified, such an exchange or modification is treated as the derecognition of the original liability and the recognition of a new liability. The difference in the respective carrying amounts is recognised in the statement of profit or loss.

Reclassification of financial assets

The Company determines classification of financial assets and liabilities on initial recognition. After initial recognition, no reclassification is made for financial assets which are equity instruments and financial liabilities. If the Company reclassifies financial assets, it applies the reclassification prospectively from the reclassification date which is the first day of the immediately next reporting period following the change in business model. The Company does not restate any previously recognised gains, losses (including impairment gains or losses) or interest.

The following table shows various reclassification and how they are accounted for:

Original classification	Revised classification	Accounting treatment
Amortised cost	FVTPL	Fair value is measured at reclassification date. Difference between previous amortised cost and fair value is recognised in P&L.
FVTPL	Amortised Cost	Fair value at reclassification date becomes its new gross carrying amount. EIR is calculated based on the new gross carrying amount.
Amortised cost	FVTOCI	Fair value is measured at reclassification date. Difference between previous amortised cost and fair value is recognised in OCI. No change in EIR due to reclassification.
FVTOCI	Amortised cost	Fair value at reclassification date becomes its new amortised cost carrying amount. However, cumulative gain or loss in OCI is adjusted against fair value. Consequently, the asset is measured as if it had always been measured at amortised cost.
FVTPL	FVTOCI	Fair value at reclassification date becomes its new carrying amount. No other adjustment is required.
FVTOCI	FVTPL	Assets continue to be measured at fair value. Cumulative gain or loss previously recognized in OCI is reclassified to P&L at the reclassification date.

Offsetting financial instruments

Financial assets and liabilities are offset and the net amount is reported in the balance sheet where there is a legally enforceable right to offset the recognized amounts and there is an intention to settle on a net basis or realize the asset and settle the liability simultaneously. The legally enforceable right must not be contingent on future events and must be enforceable in the normal course of business and in the event of default, insolvency or bankruptcy of the company or the counterparty.



GVK Power (Goindwal Sahib) Limited

Notes to financial statements for the year ended March 31, 2019

(All amounts in INR lakhs unless otherwise stated)

(k) Leases

The determination of whether an arrangement is (or contains) a lease is based on the substance of the arrangement at the inception of the lease. The arrangement is, or contains, a lease if fulfilment of the arrangement is dependent on the use of a specific asset or assets and the arrangement conveys a right to use the asset or assets, even if that right is not explicitly specified in an arrangement.

For arrangements entered into prior to 1st April 2015, the Company has determined whether the arrangement contain lease on the basis of facts and circumstances existing on the date of transition.

Company as a lessee

A lease is classified at the inception date as a finance lease or an operating lease. A lease that transfers substantially all the risks and rewards incidental to ownership to the Company is classified as a finance lease.

Finance leases are capitalised at the commencement of the lease at the inception date fair value of the leased property or, if lower, at the present value of the minimum lease payments. Lease payments are apportioned between finance charges and reduction of the lease liability so as to achieve a constant rate of interest on the remaining balance of the liability. Finance charges are recognized in finance costs in the statement of profit and loss, unless they are directly attributable to qualifying assets, in which case they are capitalized in accordance with the Company's general policy on the borrowing costs. Contingent rentals are recognized as expenses in the periods in which they are incurred.

A leased asset is depreciated over the useful life of the asset. However, if there is no reasonable certainty that the Company will obtain ownership by the end of the lease term, the asset is depreciated over the shorter of the estimated useful life of the asset and the lease term.

Operating lease payments are recognized as an expense in the statement of profit and loss on a straight-line basis over the lease term.

Company as a lessor

The Company has not entered any transactions as a lessor

(l) Investment in subsidiaries, associates and joint ventures

A entity is termed as a subsidiary if the company controls the entity. Control is achieved when the Company is exposed, or has rights, to variable returns from its involvement with the investee and has the ability to affect those returns through its power over the investee.

An associate is an entity over which the Company has significant influence. Significant influence is the power to participate in the financial and operating policy decisions of the investee, but is not control or joint control over those policies.

A joint venture is a type of joint arrangement whereby the parties that have joint control of the arrangement have rights to the net assets of the joint venture. Joint control is the contractually agreed sharing of control of an arrangement, which exists only when decisions about the relevant activities require unanimous consent of the parties sharing control.

The considerations made in determining whether significant influence or joint control are similar to those necessary to determine control over the subsidiaries.

The Company has accounted for its investment in subsidiaries, associates and joint ventures at cost.

(m) Cash and cash equivalents

Cash and cash equivalent in the balance sheet comprise cash at banks and on hand and short-term deposits with an original maturity of three months or less, which are subject to an insignificant risk of changes in value.

For the purpose of the statement of cash flows, cash and cash equivalents consist of cash and short-term deposits, as defined above, net of outstanding bank overdrafts as they are considered an integral part of the Company's cash management.



GVK Power (Goindwal Sahib) Limited

Notes to financial statements for the year ended March 31, 2019

(All amounts in INR lakhs unless otherwise stated)

(n) Trade Receivables

Receivables are initially recognised at fair value, which in most cases approximates the normal value of consideration receivable. If there is a subsequent indication that those assets may be impaired, they are reviewed for impairment and an allowance is recognised.

(o) Trade Payables

Trade payables are recognised for amounts to be paid for goods or services acquired in the ordinary course of the business whether billed by the supplier/service provided or not. Trade payables are classified as current liabilities.

(p) Earning per share**(i) Basic earnings per share**

Basic earnings per share is calculated by dividing:

- The profit attributable to owners of the company
- By the weighted average number of equity shares outstanding during the financial year, adjusted for bonus elements in equity shares issued during the year

(ii) Diluted earnings per share

Diluted earnings per share adjusts the figures used in the determination of basic earnings per share to take into account:

- The after income tax effect of interest and other financing costs associated with dilutive potential equity shares, and
- The weighted average number of additional equity shares that would have been outstanding assuming the conversion of all dilutive potential equity shares.

(q) Inventory

Coal and stores and spares are stated at cost. Costs are assigned to individual items of inventory and are determined based on weighted average method.

Cost of raw materials comprises cost of purchases and includes all other costs incurred in bringing the inventories to their present location and condition.

Spare parts, stand-by equipment and servicing equipment are recognised in accordance with this Ind AS-16 when they meet the definition of Property, Plant and Equipment. Otherwise, such items are classified as inventory. Spare parts, stand-by equipment and servicing equipment are stated at the lower of cost or net realisable value.

2.3 Critical estimates and judgments

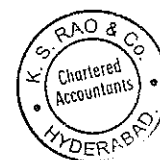
The preparation of financial statements requires the use of accounting estimates which, by definition, will seldom equal the actual results. Management also needs to exercise judgment in applying the accounting policies.

This note provides the overview of the areas that involved a higher degree of judgment or complexity, and of items which are more likely to be materially adjusted due to estimates and assumptions turning out to be different than those originally assessed. Detailed information about each of these estimates and judgments is included in relevant notes together with information about the basis of calculation for each effected line item in the financial statements.

The areas involving critical estimates and judgments are :

- Estimated useful life of Property, plant and equipment – Note 2.2 (b)
- Estimated useful life of Intangible assets – Note 2.2 (b)

Estimates and judgments are continually evaluated. They are based on historical experience and other factors, including expectations of future events that may have financial impact on the company and that are believed to be reasonable under the circumstances.



GVK Power (Goindwal Sahib) Limited
Notes to financial statements for the year ended March 31, 2019

(All amounts in INR lakhs unless otherwise stated)

3. Property, plant and equipment

Description of Assets	Freehold land	Buildings	Computers	Plant and equipment	Capital Spares	Office equipment	Furniture and fixtures	Vehicles	Total
I. Cost									
As at March 31, 2017	18,208.92	69,989.14	40.30	3,52,249.77	-	81.59	117.10	57.56	4,40,744.38
Additions	-	-	2.88	12.43	1,290.69	5.29	-	-	1,311.29
Disposals	-	-	-	-	-	-	-	-	-
As at March 31, 2018	18,208.92	69,989.14	43.18	3,52,262.20	1,290.69	86.88	117.10	57.56	4,42,055.67
Additions	-	-	5.37	84.30	-	12.46	2.87	-	105.00
Disposals	-	-	-	-	-	-	-	-	-
As at March 31, 2019	18,208.92	69,989.14	48.55	3,52,346.50	1,290.69	99.34	119.97	57.56	4,42,160.67
II. Accumulated depreciation									
Upto March 31, 2017	-	2,240.41	14.77	17,900.39	-	62.54	29.96	22.77	20,270.84
Depreciation expense for the year	-	2,335.48	8.13	18,611.17	40.09	9.16	15.78	11.31	21,031.12
On disposals	-	-	-	-	-	-	-	-	-
Upto March 31, 2018	-	4,575.89	22.90	36,511.56	40.09	71.70	45.74	34.08	41,301.96
Depreciation expense for the year	-	2,331.58	9.13	18,606.80	68.15	4.57	15.71	9.10	21,045.04
On disposals	-	-	-	-	-	-	-	-	-
As at March 31, 2019	-	6,907.47	32.03	55,118.36	108.24	76.27	61.45	43.18	62,347.00
III. Carrying Amount									
As at March 31, 2017	18,208.92	67,748.73	25.53	3,34,349.38	-	19.05	87.14	34.79	4,20,473.54
As at March 31, 2018	18,208.92	65,413.25	20.28	3,15,750.64	1,250.60	15.18	71.36	23.48	4,00,753.71
As at March 31, 2019	18,208.92	63,081.67	16.52	2,97,228.14	1,182.45	23.07	58.52	14.38	3,79,813.67



GVK Power (Goindwal Sahib) Limited

Notes to financial statements for the year ended March 31, 2019

(All amounts in INR lakhs unless otherwise stated)

4. Intangible assets

Description of Assets	Computer software	Right to Use Railway Line	Total
I. Cost			
As at March 31, 2017	5.17	2,393.73	2,398.90
Additions	-	-	-
Disposals	-	-	-
As at March 31, 2018	5.17	2,393.73	2,398.90
Additions	-	-	-
Disposals	-	-	-
As at March 31, 2019	5.17	2,393.73	2,398.90
II. Accumulated Amortisation			
Upto March 31, 2017	2.97	359.06	362.03
Amortisation expense for the year	0.95	239.37	240.32
On disposals	-	-	-
Upto March 31, 2018	3.92	598.43	602.35
Amortisation expense for the year	0.60	239.37	239.97
On disposals	-	-	-
As at March 31, 2019	4.52	837.80	842.32
III. Carrying Amount			
As at March 31, 2017	2.20	2,034.67	2,036.87
As at March 31, 2018	1.25	1,795.30	1,796.55
As at March 31, 2019	0.65	1,555.93	1,556.58



GVK Power (Goindwal Sahib) Limited

Notes to financial statements for the year ended March 31, 2019

(All amounts in INR lakhs unless otherwise stated)

5. Non-current Investments

Particulars	As at March 31, 2019	As at March 31, 2018
Non-current investments		
Investment carried at Amortised cost		
(i) Equity instruments of associate company (unquoted) 51,73,100 shares (2018: 51,73,100) Seregarha Mines Ltd each fully paid up.	517.31	517.31
Less: Provision for diminution in value of investments	(517.31)	(517.31)
(ii) Equity instruments of other entities (unquoted) 99 shares (2018: 99) GVK Power (Khadur sahib) Pvt Ltd each fully paid up.	0.01	0.01
Total	0.01	0.01

6. Other financial assets

Particulars	As at March 31, 2019	As at March 31, 2018
Non-current		
Margin money deposits with bank	1.96	1.85
Unsecured, considered good		
Deposits recoverable	400.88	223.17
Total non-current other financial assets	402.84	225.02
Current		
Interest accrued	18.03	11.83
Total current other financial assets	18.03	11.83
Total	420.87	236.85

7. Other assets

Particulars	As at March 31, 2019	As at March 31, 2018
Non-current		
Unsecured, Considered good		
Capital Advances	6,818.99	6,818.99
Total non-current assets	6,818.99	6,818.99
Current		
Prepaid expenses	51.6100	47.88
Advances to Suppliers	9,003.13	11,568.55
Other Receivables	88.41	24.60
Total current assets	9,143.15	11,641.03
Total	15,962.14	18,460.02

8. Inventories

Particulars	As at March 31, 2019	As at March 31, 2018
Current (lower of cost and net realisable value)		
Raw materials	2,429.59	1,419.85
Stock in Transit	951.10	700.03
Consumables and Stores	2,016.58	781.78
Total	5,397.27	2,901.66



GVK Power (Goindwal Sahib) Limited
Notes to financial statements for the year ended March 31, 2019

(All amounts in INR lakhs unless otherwise stated)

9. Trade receivables

Particulars	As at March 31, 2019	As at March 31, 2018
a) Unsecured, considered good*		
Outstanding for a period exceeding 6 months	14,753.27	13,287.00
Others	29,992.53	12,643.45
Total (a)	44,745.80	25,930.45
(b) Doubtful		
Outstanding for a period exceeding six months	3,970.00	-
Others	-	-
	3,970.00	-
Less: Allowance for bad and doubtful debts	(3,970.00)	-
Total (b)	-	-
Total (a+b)	44,745.80	25,930.45

* Includes INR 11006 Lakhs (2018: INR 15,230 Lakhs) of Energy charges for the FY 2016-17, FY 2017-18 and 2018-19 billed to PSPCL as per calculation mechanism set out in Power Purchase Agreement/Punjab State Electricity Regulation Commission/ Central Electricity Regulation Commission regulations but not accepted by PSPCL.

The credit period on sales of power generation is 30 days. No interest is recovered on trade receivables for payments received after the due date.

No trade receivables are due from directors or other officers of the company either severally or jointly with any other person, nor any trade or other receivable are due from firms or private companies respectively in which any director is a partner, a director or a member.

10. Cash and Cash Equivalents

Particulars	As at March 31, 2019	As at March 31, 2018
Balances with banks in current accounts (Refer note below)	20,832.94	21,260.54
Demand drafts in hand	1,292.35	3,425.55
Total	22,125.29	24,686.09

Note: Balances with banks in current accounts includes encashment of Advance Bank Guarantees of INR 12,550 Lakhs and Performance Bank Guarantees of INR 1,910 Lakhs and kept under suspense account by IDBI Bank Limited.

11. Loans

Particulars	As at March 31, 2019	As at March 31, 2018
Current		
Loans to related parties		
GVK Coal (Tokisud) Company Private Limited (Refer note below)	6,544.77	6,544.77
Total	6,544.77	6,544.77

Note: The Hon'ble Supreme Court of India has de-allocated coal mine allocated to GVK Coal (Tokisud) Company Private Limited and Nominated Authority had offered compensation of INR 14,682 Lakhs as against the claim made by the company of INR 34,562 Lakhs. GVK Coal (Tokisud) Private Limited has received order from Hon'ble High Court of Delhi dated March 09, 2017 based on which it has resubmitted its claim for the balance compensation of INR 19,880 Lakhs to Nominated Authority, Ministry of Coal, Government of India. Management of GVK Coal (Tokisud) Company Private Limited believes that GVK Coal (Tokisud) Company Private Limited will be appropriately reimbursed for cancelled coal mine. Accordingly no provision is made.

12. Current tax assets (net)

Particulars	As at March 31, 2019	As at March 31, 2018
Advance tax and Tax deducted at source (net of provision for tax)	298.21	65.09
Total	298.21	65.09

The Income tax expense for the year can be reconciled to the accounting profit as follows

Particulars	For the year ended March 31, 2019	For the year ended March 31, 2018
Loss before tax	(66,791.27)	(83,168.68)
Effective tax rate	31.20%	34.61%
Income tax expense calculated at effective tax rate	(20,838.88)	(28,783.02)
Deferred Tax asset on carry forward business loss and unabsorbed depreciation and other is not recognised due to lack of convincing evidence of reversal of the same against taxable income in the forceable future	(20,838.88)	(28,783.02)

Income tax expense recognised in profit or loss



GVK Power (Goindwal Sahib) Limited
Notes to financial statements for the year ended March 31, 2019

(All amounts in INR lakhs unless otherwise stated)

13. Share capital

Particulars	As at March 31, 2019	As at March 31, 2018
Authorised share capital:		
150,00,00,000 (2018: 150,00,00,000) Equity shares of INR 10 each	1,50,000.00	1,50,000.00
Issued and subscribed capital:		
126,51,95,630 (2018: 126,51,95,630) each fully paid up.	1,26,519.56	1,26,519.56
Total	1,26,519.56	1,26,519.56

(A) Reconciliation of the number of shares outstanding:

Particulars	Number of shares	Amount
As at March 31, 2017	1,25,17,87,810	1,25,178.78
Issue of shares	1,34,07,820	1,340.78
As at March 31, 2018	1,26,51,95,630	1,26,519.56
Issue of shares	-	-
As at March 31, 2019	1,26,51,95,630	1,26,519.56

(B) Details of shares held by each shareholder holding more than 5% shares of shares outstanding and shares held by Holding Company

Particulars	As at March 31, 2019		As at March 31, 2018	
	Number of shares held	% holding of equity shares	Number of shares held	% holding of equity shares
GVK Energy Ltd including 6 nominees	1,26,51,95,630	100%	1,26,51,95,630	100%

(C). Rights, preferences and restrictions attached to equity shares including restriction on the distribution of dividend

The Company has only one class of equity share having par value of INR 10 per share. Each holder of equity shares is entitled to one vote per share. The Company declares and pays dividends in Indian Rupees. The dividend proposed by the Board of Directors is subject to the approval of the shareholders in the ensuing Annual General Meeting. In the event of liquidation of the Company, the holders of equity shares will be entitled to receive remaining assets of the company, after distribution of all preferential amounts. The distribution will be in proportion to the number of equity shares held by the shareholders.

14. Other equity

Particulars	Reserves and surplus		Other comprehensive income	Total
	Share Application Money	Retained Earnings	Items that will not be reclassified to profit or loss	
Balance as at 1 April 2017	-	(68,660.69)	7.55	(68,653.14)
Add: Profit/(Loss) during the year	-	(83,168.68)	-	(83,168.68)
Add: Addition during the year	1,340.78	-	-	1,340.78
Less: Shares Issued	(1,340.78)	-	-	(1,340.78)
Add: Re-measurement gains/(losses) on defined benefit plans	-	-	9.17	9.17
Balance as at 31 March 2018	0.00	(1,51,829.37)	16.72	(1,51,812.65)
Add: Profit/(Loss) during the year	-	(66,789.54)	-	(66,789.54)
Add: Trasferred from surplus in statement of profit and loss	-	-	-	-
Add: Re-measurement gains/(losses) on defined benefit plans	-	-	(5.92)	(5.92)
Balance as at 31 March 2019	0.00	(2,18,618.91)	10.80	(2,18,608.11)



GVK Power (Goindwal Sahib) Limited
Notes to financial statements for the year ended March 31, 2019

(All amounts in INR lakhs unless otherwise stated)

15. Financial liabilities

Particulars	As at March 31, 2019	As at March 31, 2018
Current		
Current maturities of Long term borrowings	4,05,564.17	4,07,622.61
Interest accrued and due on borrowings	85,223.78	31,391.20
Interest accrued but not due on borrowings	502.91	500.03
Retention monies	11,642.36	11,625.70
Employee benefits payable	102.61	117.84
Liabilities for Expenses	9,375.81	6,812.17
Total	5,12,411.64	4,58,069.55

Summary of borrowings

Particulars	As at March 31, 2019	As at March 31, 2018
Secured Term Loans		
- from Banks	3,17,354.24	3,19,854.24
- from Financial Institutions	58,710.00	58,710.00
Secured Bonds from Banks	30,700.00	30,700.00
	4,06,764.24	4,09,264.24
Less: Unamortised Transaction Costs	(1,200.07)	(1,641.63)
Total	4,05,564.17	4,07,622.61

Summary of borrowing arrangements

13.1 Term Loans except Term Loan from Deutsche Bank

Nature of Security & Terms of Repayment

(i) Nature of Security

Term Loans from Banks and Financial Institutions are secured by:

- First charge on all movable, immovable properties, book debts, operating cash flows, receivables, Commissions, revenues, intangibles, goodwill, uncalled capital, designated bank accounts of the Company, present and future.
- First charge by way of assignment or creation of charge on all the rights, title, interest, benefits, claims and demands whatsoever in the project documents.
- Pledge of 51% of equity shares held by the Holding Company

(ii) Terms of Repayment

Pursuant to implementation of the 5/25 scheme, the loan is repayable in 78 structured quarterly instalments, commencing from October 31, 2017 and ending on January 31, 2037.

(iii) Rate of Interest

Term Loan I @ 12.65% per annum to 13.25% per annum, Term Loan II and III @ 13.15% per annum to 13.25% per annum and Term Loan IV @ 13.25% per annum

Term Loans are further secured by

Irrecoverable and unconditional Corporate Guarantee of GVK Energy Ltd to secure the outstandings.

Conversion

In case of default in repayment of principal / interest or any combination thereof for a period of 30 days or more from due date, the Lenders, at their option, can exercise right to convert the whole or part of the outstanding amount of the loan into fully paid-up equity shares of the Company, at par.

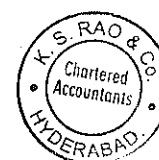
13.2 Loans and Bonds from Deutsche Bank

(i) Nature of Security

- The loan from Deutsche Bank AG, Mumbai Branch and the bonds issued to DB International (Asia) Limited (collectively, the "Priority Lenders") is a Priority Facility. The Priority Lenders have an exclusive charge over the Priority Debt Service Reserve Account, Priority Security and Debenture redemption reserve and also over all Cashflows and other assets of the Company'
- First charge on all movable, immovable properties, book debts, operating cash flows, receivables, Commissions, revenues, intangibles, goodwill, uncalled capital, designated bank accounts of the Company, present and future.
- First charge by way of an indenture of mortgage on all the rights, title, interest, benefits, claims and demands whatsoever in the project documents.
- Pledge of 51% of equity shares held by the Holding Company
- Irrecoverable and unconditional Corporate Guarantee of GVK Energy Ltd to secure the outstandings.

Conversion

In case of default in repayment of principal / interest or any combination thereof for a period of 30 days or more from due date, the Lenders, at their option, can exercise right to convert the whole or part of the outstanding amount of the loan into fully paid-up equity shares of the Company, at par.



GVK Power (Goindwal Sahib) Limited

Notes to financial statements for the year ended March 31, 2019

(All amounts in INR lakhs unless otherwise stated)

(ii) Loans - Terms of Repayment

- a) Tranche I & II: INR 22,500 Lakhs to be repaid in full on May 11, 2018.
 b) Tranche III: INR 6,000 Lakhs to be paid in 24 equal monthly instalments starting from June 11, 2018.

(iii) Loans - Rate of Interest

Tranche I, II and III @ 16% per annum.

(iv) Bonds - Terms of Repayment

- a) Tranche A: INR 23,700 Lakhs to be paid in 12 equal monthly instalments starting from June 12, 2020.
 b) Tranche B: INR 7,000 Lakhs to be paid in 10 equal monthly instalments starting from August 12, 2020.

(v) Bonds - Rate of Interest

Tranche A @ 14.09% (Net of TDS) per annum and Tranche B @ 13.99% (Net of TDS) per annum.

Delays and defaults

The Company has delayed repayment of dues to banks and financial institutions during the year as provided in the table below.

Particulars	As at March 31, 2019	As at March 31, 2018	Delay in days
Repayment of interest to banks and financial institutions	5,459.25	10,134.99	0-30
Repayment of interest to banks and financial institutions	4,737.95	8,671.56	31-60
Repayment of interest to banks and financial institutions	5,454.84	3,492.12	61-90
Repayment of interest to banks and financial institutions	5,049.89	7,827.83	91-120
Repayment of interest to banks and financial institutions	4,918.59	4,967.57	121-150
Repayment of interest to banks and financial institutions	4,946.46	3,549.74	151-180
Repayment of interest to banks and financial institutions	54,651.66	9,711.98	> 180
Amount of interest unpaid as at year end	85,218.64	31,386.06	-
Repayment of principal to banks and financial institutions	910.17	351.61	0-180
Repayment of principal to banks and financial institutions	23,760.23	-	> 180
Amount of term loans unpaid as at year end	24,670.40	351.61	-



GVK Power (Goindwal Sahib) Limited

Notes to financial statements for the year ended March 31, 2019

(All amounts in INR lakhs unless otherwise stated)

16. Provisions

Particulars	As at March 31, 2019	As at March 31, 2018
Provision for employee benefits (Refer note 29)		
Non -current		
Gratuity	18.20	0.98
Current		
Compensated absence	55.28	43.91
Total	73.48	44.89

17. Other liabilities

Particulars	As at March 31, 2019	As at March 31, 2018
Current		
Statutory Dues	552.21	117.17
Others	18.98	22.71
Total	571.19	139.88

18. Current borrowings

Particulars	As at March 31, 2019	As at March 31, 2018
Secured - at amortised cost		
Facilities repayable on demand		
Working Capital facilities from Banks	50,872.64	44,390.89
Total	50,872.64	44,390.89

(i) Facilities repayable on demand from Bank are secured by:

- First charge on all movable, immovable properties, book debts, operating cash flows, receivables, Commissions, revenues, intangibles, goodwill, uncalled capital, designated bank accounts of the Company, present and future.
- First charge by way of assignment or creation of charge on all the rights, title, interest, benefits, claims and demands whatsoever in the project documents.
- Pledge of 51% of equity shares held by the Holding Company

(ii) Rate of Interest @ 12.25% per annum

19. Trade Payables

Particulars	As at March 31, 2019	As at March 31, 2018
Dues to : micro enterprises and small enterprises (Refer note below)	-	-
other than micro and small enterprises*	5,024.21	4,023.08
Total	5,024.21	4,023.08

Terms and conditions of the above financial liabilities:

Trade payables are non-interest bearing and are normally settled between 30-60 days.

Outstanding dues to related parties (refer note 28) INR 174.76 as at March 31, 2019 and INR 161.88 as at March 31, 2018

For explanations on the Company's credit risk management processes, refer to note 31

* Note: There are no dues to Micro, small and medium enterprises as at March 31, 2019 and March 31, 2018. The identification of Micro, small and medium enterprises as defined under the provisions of "Micro, Small and Medium Enterprises Act, 2006" is based on management's knowledge of their status.



GVK Power (Goindwal Sahib) Limited
Notes to financial statements for the year ended March 31, 2019

(All amounts in INR lakhs unless otherwise stated)

20. Revenue from operations

Particulars	For the year ended March 31, 2019	For the year ended March 31, 2018
Sale of Energy	1,53,773.28	89,348.80
UI Sales	-	6.49
Less: Rebate	(2,208.93)	(799.06)
Total	1,51,564.35	88,556.23

21. Other income

Particulars	For the year ended March 31, 2019	For the year ended March 31, 2018
Interest income on financial assets carried at amortised cost		
Bank deposits	22.47	46.94
	22.47	46.94
Other non-operating income		
Credit balances written back	0.22	4.71
Sale of scrap	4.40	8.93
	4.62	13.64
Total	27.09	60.58

22. Employee Benefits Expense

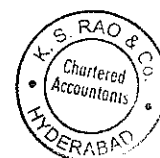
Particulars	For the year ended March 31, 2019	For the year ended March 31, 2018
Salaries and wages	1,157.94	918.59
Contribution to provident and other funds	83.58	60.00
Gratuity	15.33	12.89
Staff welfare expenses	9.74	7.24
Total	1,266.59	998.72

23. Finance costs

Particulars	For the year ended March 31, 2019	For the year ended March 31, 2018
Interest on : Fixed Loans	63,628.68	57,356.53
: Working capital facilities	6,481.75	4,981.05
Interest others	1,389.19	11.69
Other finance charges	27.66	344.38
Total	71,527.28	62,693.65

24. Depreciation and amortisation expense

Particulars	For the year ended March 31, 2019	For the year ended March 31, 2018
Depreciation of property, plant and equipment	21,045.04	21,031.12
Amortisation of intangible assets	239.97	240.32
Total	21,285.01	21,271.44



GVK Power (Goindwal Sahib) Limited

Notes to financial statements for the year ended March 31, 2019

(All amounts in INR lakhs unless otherwise stated)

25. Other expenses

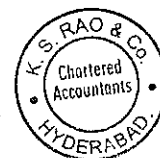
Particulars	For the year ended March 31, 2019	For the year ended March 31, 2018
Consumption of Stores and Spares	1,164.39	1,007.07
Power and Fuel	435.47	1,333.06
Contract Manpower	1,662.70	1,347.83
Repairs: Buildings	29.52	26.91
: Plant and Machinery	147.54	118.42
: Other assets	105.84	59.71
Ash Handling Charges	310.23	311.85
Water Drawl Charges	-	121.10
Insurance	284.54	602.70
Rent	6.19	3.30
Rates and Taxes	112.38	362.97
Legal and Professional Charges	933.86	469.12
Audit Remuneration: Statutory Audit	7.08	3.56
: Other Services	0.21	0.20
Provision for diminution in value of investments	-	11.56
Communication Costs	7.73	20.62
Travelling Expenses	98.24	74.47
Miscellaneous expenses	211.91	568.99
Bad debts written off	1,842.42	-
Provision for doubtful debts	3,970.00	-
Inventory Written off	-	52.81
Liquidated Damages	1,737.18	16,767.08
Total	13,067.43	23,263.33

i) Lease rent

Lease payments made under operating leases aggregating to INR 6.19 (March 31, 2018: INR 3.30) have been recognized as an expense under the head Rent. These are no non-cancellable operating leases entered by the company.

ii) Liquidated damages

Liquidated damages includes disputed penalties of INR 1,662.68 lakhs and INR 74.50 lakhs imposed by PSPCL for the financial year 2018-19 and 2017-18 respectively on the ground that the force majeure event post de-allocation of coal mine continues. However, the company has agreed to pay the said penalty in 10 equal monthly installments pending the outcome of the petition with PSERC. Accordingly, the company has provided the said amount without prejudice to the rights of the company in the dispute.



GVK Power (Goindwal Sahib) Limited
Notes to financial statements for the year ended March 31, 2019

26. Earnings per share

Particulars	For the year ended March 31, 2019	For the year ended March 31, 2018
Profit after tax	(66,789.54)	(83,168.68)
Basic:		
Number of shares outstanding at the year end	1,26,51,95,630	1,26,51,95,630
Weighted average number of equity shares	1,26,51,95,630	1,25,82,40,230
Earnings per share - INR	(5.28)	(6.61)
Diluted:		
Earnings per share - INR	(5.28)	(6.61)

Note: EPS is calculated based on profits excluding the other comprehensive income

27. Commitments and Contingent Liabilities not provided for:

Particulars	As at March 31, 2019	As at March 31, 2018
Commitments:		
Estimated amount of contracts remaining to be executed on capital contracts, net of advances, not provided for	-	-
Contingent Liabilities:		
On account of Bank Guarantees	-	1,440.18
Claims against company not acknowledged as debt	4,317.67	4,317.67
On account of Interest to banks	905.83	-

There are claims and counter claims between GVK Power (Goindwal Sahib) Limited ("GVKPGSL") and Bharat Heavy Electricals Limited ("BHEL") and also between ("GVKPGSL") and Punj Lloyd Limited ("PLL"). GVKPGSL engaged BHEL for execution of BTG works along with associated Auxiliaries, control & instrumentation works and Electrical package in respect of Goindwal Sahib project ("Works"). In execution of Works certain disputes arisen between parties. Whilst the discussions for settlement of disputes are going on, GVKPGSL sought BHEL to renew the BGs, worth approximately INR 110 Crores. BHEL filed the captioned petition u/s 9 of the Arbitration and Conciliation Act, 1996 before Commercial Court, Hyderabad and obtained stay against GVKPGSL from invoking the BGs. BHEL has extended the bank guarantees till 28th July 2019. Subsequently, BHEL has initiated arbitration proceedings. A three members arbitration tribunal was constituted. The hearings are in progress with Arbitration.

GVKPGSL engaged PLL for execution of Balance of Plant works in respect of Goindwal Sahib project ("Works"). In execution of Works certain disputes arisen between parties. GPGSL issued a notice dt.24.12.2014 to PLL levying liquidated damages and other claims for (a) defaults committed by PLL under the agreement for supply (steel & cement), agreement for supply (ex-works) and an agreement for services, dt.14.09.2009; and (b) for delays caused by it in completion of the project on time. PLL and GPGSL had nominated their choices of arbitrators. But, the presiding arbitrator could not be appointed due to non-cooperation of PLL. Subsequently, PLL had filed three Applications u/s. 11(5) & (6) of the Arbitration & Conciliation Act, 1996 bearing Nos. 146/17, 147/17 & 148/17 seeking the Court to appoint a Presiding Arbitrator so as to complete the constitution of a three (03) members Arbitral Tribunal to adjudicate the claims and disputes between GPGSL and PLL arising out of the above referred agreements. Matters are yet to be listed for hearing.



GVK Power (Goindwal Sahib) Limited

Notes to financial statements for the year ended March 31, 2019

(All amounts in INR lakhs unless otherwise stated)

28. Related Party disclosures:

Nature of Relation	Name of the party
a. Joint venture of Holding Company	GVK Power & Infrastructure Limited
b. Holding Company	GVK Energy Limited
c. Key Management personnel (KMP)	Mr. M Rama Murty - Whole time Director (upto 01.04.2018) Mr. V.C. Shukla - Whole Time Director (w.e.f 01.04.2018) Mr. P V Prasanna Reddy – Director
d. Associate Company	Seregarha Mines Limited
e. Fellow Subsidiaries	GVK Coal (Tokisud) Company Private Limited GVK Power (Khadur Sahib) Private Limited
f. Enterprises in which the key management personnel of Holding Company and /or their relatives have significant influence	Taj GVK Hotels & Resorts Limited GVK Technical & Consultancy Services Private Limited Orbit Travels & Tours Ltd

Transactions During the Year

Particulars	For the year ended March 31, 2019	For the year ended March 31, 2018
GVK Technical & Consultancy Services Ltd		
Services	224.02	146.13
Payments	203.64	158.54
Orbit Travels & Tours Ltd		
Services	56.65	38.09
GVK Coal (Tokisud) Company Pvt Ltd		
Payments	-	41.08
Taj GVK Hotels & Resorts Ltd		
Services	12.99	4.15
GVK Energy Ltd		
Share Application Money Received	-	1,340.78
Shares Allotted	-	1,340.78
Amount received	5.83	43.25
Amount paid	-	2.01
GVK Power & Infrastructure Ltd		
Services	0.73	0.90
Seregarha Mines Ltd:		
Share application money paid	-	11.56
Shares allotted	-	24.00

Balances with Related Party

Particulars	As at March 31, 2019	As at March 31, 2018
GVK Technical & Consultancy Services Ltd		
Payable	135.00	114.62
Orbit Travels & Tours Pvt Ltd		
Payable	4.35	13.10
GVK Coal (Tokisud) Company Pvt Ltd		
Receivable	6,544.77	6,544.77
Taj GVK Hotels & Resorts Ltd		
Payable	0.70	6.01
GVK Energy Ltd		
Payable	12.33	6.50
GVK Power & Infrastructure Ltd		
Payable	22.38	21.65



GVK Power (Goindwal Sahib) Limited

Notes to financial statements for the year ended March 31, 2019

(All amounts in INR lakhs unless otherwise stated)

29. Employee benefit expenses

(a) Defined Benefit Plans

i) Gratuity

The company provides for gratuity for employees in India as per the payment of Gratuity Act, 1972 as amended. Employees who are in continuous service for a period of 5 years are eligible for gratuity. The amount of gratuity payable on retirement/termination is the employees last drawn basic salary per month computed proportionately for 15 day's salary multiplied for the number of years of service. The gratuity plan is a funded plan and the Company makes contributions to recognized funds in India. The company does not fully fund the liability and maintains a target level of funding to be maintained over a period of time based on estimations of expected gratuity payments.

The amounts recognised in the balance sheet and the movements in the net defined benefit obligation over the year are as follows:

Particulars	As at March 31, 2019	As at March 31, 2018
Change in benefit obligation		
Benefit Obligation at the beginning of the year	50.16	44.47
Interest Cost	3.66	3.25
Current Service Cost	15.41	12.94
Benefits paid directly by the company	(4.02)	(7.01)
Acquisitions (credit)/cost	-	5.76
Experience (gain) / loss	4.85	(6.88)
Benefits paid from plan assets	-	(0.18)
(Gain) / loss from change in financial assumptions	0.73	(2.19)
Benefit Obligation at the end of the year	70.79	50.16
Change in plan assets		
Fair Value of plan assets at the beginning of the year	49.18	45.97
Return on plan assets, excluding amounts included in interest expense/(income)	(0.33)	0.10
Interest income on plan assets	3.74	3.30
Employer Contributions	-	-
Benefit payments	-	(0.19)
Actuarial Gain / (Loss) on the plan Assets	-	-
Plan Value of the assets at the end of the year	52.59	49.18
Funded status	18.20	0.98

Expenses recognised in the statement of profit and loss for the year

Particulars	For the year ended March 31, 2019	For the year ended March 31, 2018
Current service cost	15.41	12.94
Other long term employee benefit plans	-	-
Interest expense/(income)	(0.08)	(0.05)
Total expenses included in employee benefits expense	15.33	12.89

Recognised in other comprehensive income for the year

Particulars	For the year ended March 31, 2019	For the year ended March 31, 2018
(Gain) / loss from change in DBO experience	4.85	(6.88)
(Gain) / loss from change in financial assumptions	0.73	(2.19)
Return on plan assets (greater)/less than discount rate	0.33	(0.10)
Recognised in other comprehensive income	5.91	(9.17)

Significant estimates: Actuarial assumptions and sensitivity

The significant actuarial assumptions were as follows:

Particulars	As at March 31, 2019	As at March 31, 2018
Discount rate	7.50%	7.60%
Salary growth rate	7.00%	7.00%
Withdrawal rate	5.00%	5.00%
Mortality Table	IALM(2006-08)	IALM(2006-08)



GVK Power (Goindwal Sahib) Limited

Notes to financial statements for the year ended March 31, 2019

(All amounts in INR lakhs unless otherwise stated)

Sensitivity analysis

The sensitivity of the defined benefit obligation to changes in the weighted principal assumptions is:

Particulars	For the year ended March 31, 2019	For the year ended March 31, 2018
Defined Benefit Obligation	70.79	50.16
Discount rate:(% change compared to base due to sensitivity)		
Increase : +1%	(6.83)	(4.87)
Decrease: -1%	8.08	5.77
Salary Growth rate:(% change compared to base due to sensitivity)		
Increase : +1%	8.05	5.75
Decrease: -1%	(6.93)	(4.94)
Withdrawal rate:(% change compared to base due to sensitivity)		
Increase : 1%	(0.24)	(0.18)
Decrease: 1%	0.20	0.15

The above sensitivity analysis are based on a change in an assumption while holding all other assumptions constant. In practice, this is unlikely to occur and changes in some of the assumptions may be correlated. When calculating the sensitivity of the defined benefit obligation to significant actuarial assumptions, the same method (present value of the defined benefit obligation calculated with the projected unit credit method at the end of the reporting period) has been applied as when calculating the defined benefit liability recognised in the balance sheet.

The methods and types of assumptions used in preparing the sensitivity analysis did not change compared to the prior period.

The major categories of plans assets are as follows:

Particulars	As at March 31, 2019	As at March 31, 2018
Schemes of insurance - conventional products	52.59	49.18
	52.59	49.18

Defined benefit liability and employer contributions

The Company has purchased insurance policy to provide for payment of gratuity to the employees. Every year, the insurance company carries out a funding valuation based on the latest employee data provided by the Company. Any deficit in the assets arising as a result of such valuation is funded by the Company. The company considers that the contribution rate set at the last valuation date is sufficient to eliminate the deficit over the agreed period and that regular contributions, which are based on service costs will not increase significantly.

The expected cash flows over the next years is as follows:

Particulars	Period	Amount
As at March 31, 2019		
Defined benefit obligation-Gratuity	Less than a year	3.66
	Between 2-3 years	15.79
	Between 4-5 years	15.71
	Over 10 years	80.74
	Total	115.91

Risk exposure

Through its defined benefit plans, the company is exposed to a number of risks, the most significant of which are detailed below:

Interest Rate Risk: The defined benefit obligation calculated uses a discount rate based on government bonds. If bond yields fall, the defined benefit obligation will tend to increase.

Salary Inflation risk : Higher than expected increases in salary will increase the defined benefit obligation.

Demographic Risk: This is the risk of variability of results due to unsystematic nature of decrements that include mortality, withdrawal, disability and retirement. The effect of these decrements on the defined benefit obligation is not straight forward and depends upon the combination of salary increase discount rate and vesting criteria. It is important not to overstate withdrawals because in the financial analysis the retirement benefit of a short career employee typically costs less per year as compared to a long service employee.



GVK Power (Goindwal Sahib) Limited

Notes to financial statements for the year ended March 31, 2019

(All amounts in INR lakhs unless otherwise stated)

ii) Compensated Absences

Compensated absences is payable to all the eligible employees of the Company on any type of separation from the Company on the leave balance as per the Company Rules. Benefits would be paid at the time of separation based on last drawn basic salary.

Included as part of Salaries, Wages and Bonus	For the year ended March 31, 2019	For the year ended March 31, 2018
Compensated absences	24.33	8.98

(b) Defined Contribution plans

i) **Employer's Contribution to Provident Fund:** Contributions are made to provident fund in India for employees at the rate of 12% of basic salary as per regulations. The contributions are made to registered provident fund administered by the government. The obligation of the company is limited to the amount contributed and it has no further contractual nor any constructive obligation.

Included in Contribution to Provident and Other Funds	For the year ended March 31, 2019	For the year ended March 31, 2018
Employer's Contribution to Provident Fund	55.63	17.33



GVK Power (Goindwal Sahib) Limited

Notes to financial statements for the year ended March 31, 2019

(All amounts in INR lakhs unless otherwise stated)

30. Capital Management

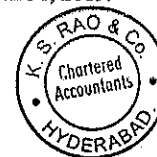
For the purpose of the Company's capital management, capital includes issued equity capital, non-convertible bonds, compulsorily convertible preference shares, share premium and all other equity reserves attributable to the equity holders. The primary objective of the Company's capital management is to maximise the shareholder value.

The Company manages its capital structure in consideration to the changes in economic conditions and the requirements of the financial covenants. The Company monitors capital using a gearing ratio, which is net debt divided by total capital. The Company includes within net debt, borrowings including interest accrued on borrowings, trade and other payables, less cash and short-term deposits.

Particulars	As at March 31, 2019	As at March 31, 2018
Borrowings including interest accrued on borrowings	5,42,163.50	4,83,904.73
Trade payables	5,024.21	4,023.08
Other liabilities	21,691.97	18,695.59
Less: cash and short-term deposits	(22,125.29)	(24,686.09)
Net debt	5,46,754.39	4,81,937.31
Equity	1,26,519.56	1,26,519.56
Other Equity	(2,18,608.11)	(1,51,812.65)
Total Equity	(92,088.55)	(25,293.09)
Gearing ratio (Net Debt/ Total Equity)	(5.94)	(19.05)

In order to achieve this overall objective, the Company's capital management, amongst other things, aims to ensure that it meets financial covenants attached to the interest-bearing loans and borrowings that define capital structure requirements. Breaches in meeting the financial covenants would permit the bank to immediately call back the loans and borrowings. There have been breaches in the financial covenants of interest-bearing loans and borrowing in the current period. However, the entire portion of long term borrowing has been classified as current.

No changes were made in the objectives, policies or processes for managing capital during the year ended March 31, 2019.



GVK Power (Goindwal Sahib) Limited

Notes to financial statements for the year ended March 31, 2019

31. Fair value measurement of financial instruments

The fair value of the financial assets and liabilities is included at the amount at which the instrument could be exchanged in a current transaction between willing parties, other than in a forced or liquidation sale.

a) Financial instruments by category

The carrying value and fair value of financial instruments by categories were as follows:

Particulars	As at March 31, 2019		As at March 31, 2018	
	Amortised cost	Total fair value	Amortised cost	Total fair value
Assets:				
Non-Current				
Other Financial Assets	402.84	402.84	225.02	225.02
Current				
Other Financial Assets	18.03	18.03	11.83	11.83
Cash and cash equivalents	22,125.29	22,125.29	24,686.09	24,686.09
Total	22,546.16	22,546.16	24,922.94	24,922.94
Liabilities:				
Current				
Borrowings	50,872.64	50,872.64	44,390.89	44,390.89
Trade payables	5,024.21	5,024.21	4,023.08	4,023.08
Other financial liabilities	5,12,411.64	5,12,411.64	4,58,069.55	4,58,069.55
Total	5,68,308.49	5,68,308.49	5,06,483.52	5,06,483.52

b. Fair value hierarchy

Quantitative disclosures fair value measurement hierarchy:

Particulars	As at March 31, 2019	Significant observable inputs (Level 2)	As at March 31, 2018	Significant observable inputs (Level 2)
	Assets:			
Non-Current				
Other Financial Assets	402.84	402.84	225.02	225.02
Current				
Other Financial Assets	18.03	18.03	11.83	11.83
Cash and cash equivalents	22,125.29	22,125.29	24,686.09	24,686.09
Total	22,546.16	22,546.16	24,922.94	24,922.94
Liabilities:				
Current				
Borrowings	50,872.64	50,872.64	44,390.89	44,390.89
Trade payables	5,024.21	5,024.21	4,023.08	4,023.08
Other financial liabilities	5,12,411.64	5,12,411.64	4,58,069.55	4,58,069.55
Total	5,68,308.49	5,68,308.49	5,06,483.52	5,06,483.52

The carrying amounts of Other current financial assets, Short term borrowings, trade payables and other financial liabilities are considered to be the same as their fair values, due to their short term nature

The fair values for Non current borrowings are based on discounted cash flows using current borrowing rate. They are classified as level 2 fair values in the fair value hierarchy due to the use of observable inputs.

B. Financial Risk Management Framework

The Company's principal financial liabilities, comprise loans and borrowings, trade and other payables. The main purpose of these financial liabilities is to finance the Company's operations. The Company's principal financial assets include Bank deposits and cash & cash equivalents.

The Company is exposed primarily to Credit Risk, Liquidity Risk and Market risk, which may adversely impact the fair value of its financial instruments. The Company assesses the unpredictability of the financial environment and seeks to mitigate potential adverse effects on the financial performance of the Company.



GVK Power (Goindwal Sahib) Limited

Notes to financial statements for the year ended March 31, 2019

Credit Risk

Credit risk is the risk that counterparty will not meet its obligations under a financial instrument or customer contract, leading to a financial loss. Credit risk encompasses of both, the direct risk of default and the risk of deterioration of creditworthiness as well as concentration of risks. Credit risk is controlled by analyzing credit limits and creditworthiness of customers on a continuous basis to whom the credit has been granted after obtaining necessary approvals for credit. Financial instruments that are subject to concentrations of credit risk principally consist of cash and cash equivalents, bank deposits and other financial assets. None of the financial instruments of the Company result in material concentration of credit risk.

Exposure to credit risk:

The carrying amount of financial assets represents the maximum credit exposure. The maximum exposure to credit risk was INR 66,889.12 Lakhs as at March 31, 2019(INR 50,628.37 Lakhs as at March 31, 2018) , being the total of the carrying amount of financial assets.

i) Financial instruments and cash deposits

Credit risk from balances with banks and financial institutions is managed by the Company's treasury department in accordance with the Company's policy. Investments of surplus funds are made only with approved counterparties and within credit limits assigned to each counterparty. Counterparty credit limits are reviewed by the Company's Board of Directors on an annual basis, and may be updated throughout the year. The limits are set to minimise the concentration of risks and therefore mitigate financial loss through counterparty's potential failure to make payments.

Liquidity Risk

Liquidity risk refers to the risk that the Company cannot meet its financial obligations. The objective of liquidity risk management is to maintain sufficient liquidity and ensure that funds are available for use as per requirements. The Company manages liquidity risk by maintaining adequate reserves, banking facilities and reserve borrowing facilities, by continuously monitoring forecast and actual cash flows, and by matching the maturity profiles of financial assets and liabilities. The table below summarises the maturity profile of the company's financial liabilities based on contractual undiscounted payments.

Particulars	On Demand	in next 12 months	> 1 year	Total
Year ended March 31, 2019				
Borrowings	50,872.64	4,91,290.86	-	5,42,163.50
Other financial liabilities	-	21,120.78	-	21,120.78
Trade and other payables	-	5,024.21	-	5,024.21
	50,872.64	5,17,435.85	-	5,68,308.49
Year ended March 31, 2018				
Borrowings	44,390.89	4,39,513.84	-	4,83,904.73
Other financial liabilities	-	18,555.71	-	18,555.71
Trade and other payables	-	4,023.08	-	4,023.08
	44,390.89	4,62,092.63	-	5,06,483.52

Market Risk

Market risk is the risk that the fair value or future cash flows of a financial instrument will fluctuate because of changes in market prices. Such changes in the values of financial instruments may result from changes in the foreign currency exchange rates, interest rates, credit, liquidity and other market changes. The Company's exposure to market risk is primarily on account of interest rates.

Interest rate risk

Interest rate risk is the risk that the fair value or future cash flows of a financial instrument will fluctuate because of change in market interest rates. The Company's exposure to the risk of changes in market interest rates relates primarily to the Company's debt obligations with floating interest rates.

Interest rate sensitivity

The following table demonstrates the sensitivity to a reasonably possible change in interest rates on that portion of loans and borrowings effected with all other variables held constant:

Particulars	Impact on Profit before tax	
	31 March 2019	31 March 2018
Interest rates-increase by 50 basis points	2,318.83	2,090.25
Interest rates-decrease by 50 basis points	(2,318.83)	(2,090.25)



GVK Power (Goindwal Sahib) Limited

Notes to financial statements for the year ended March 31, 2019

(All amounts in INR unless otherwise stated)

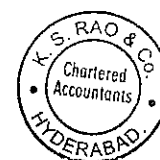
32. Uncertainty is faced by coal plant of the company, towards supply of coal consequent to de-allocation of coal mine. Management has filed petition with Punjab State Electricity Regulatory Commission (PSERC) for amendment to Power Purchase Agreement, rate revision, approval for using imported coal, approval for completed capital cost, etc. claiming force majeure and change in law as envisaged under Power Purchase Agreement. The Company has made arrangement for coal on long term basis under Shakthi Scheme. Earlier PSPCL released tariff bill based on PSERC order dated 01.02.2016. After arranging under Shakthi scheme, an interim order passed by PSERC on 06.03.2019. Now PSPCL released the tariff bills based on PSERC order dated 06.03.2019. In the interim order, Punjab State Power Corporation Limited (PSPCL) has made certain deductions aggregating to INR 11006 lakhs while approving the revenue claimed by the company pursuant to the aforesaid interim order. The company has also filed petitions with PSERC for the aforesaid deductions made by PSPCL.

In February 2018, the company has obtained long term coal linkage through Scheme for Harnessing and Allocating Koyala Transparently in India (SHAKTI scheme) for significant part of its capacity. Further in March 2018, PSERC has approved a provisional fixed charges of Rs 2.20 per unit till the final capital cost is determined.

The company was unable to run the plant at optimal capacity during financial year 2016-17 and 2017-18 primarily on account of low availability of fuel and hence defaulted on repayment of dues to lenders. Consequently the lenders have classified the loan balances of GVKPGSL as non-performing assets. GVKPGSL is currently working with lenders towards the resolution plan as required by the RBI notification dated 12 February 2018, on resolution of stressed assets. If a resolution plan is not implemented as per the timelines specified in the aforesaid notification, lenders shall file insolvency application, singly or jointly, under the Insolvency and Bankruptcy Code 2016 within 15 days from the expiry of the said timeline. Consequently, the lenders have referred the company to NCLT for appropriate resolution. However, the case is yet to be admitted. The Company had shown improvement in cash flows during 2018-19 by operating 66.22% of the plant capacity. Due to this, the lenders may not be pursuing the matter for admission of this case with NCLT and the management believes that the case will not be admitted in the NCLT. The Company has given corporate guarantee from GVK Energy Limited for the loans taken by it.

The company has defaulted the payment of dues to the banks and financial institutions for the period from 31.10.2017 to 31.03.2019. The company initially worked out a debt restructuring package under Scheme for Sustainable Structuring of Stressed Assets (S4A), which recognised a part of total debt as the unsustainable debt. Subsequently, after the Scheme for Sustainable Structuring of Stressed Assets (S4A) was declared as null & void, a Resolution Plan (RP) was worked out under RBI's circular dated 12 February 2018. Though Resolution Plan has obtained rating of 4, Resolution Plan (RP) could not be implemented because majority of the lenders did not approve the same. Consequently, as envisaged under the RBI Circular dated 12 February 2018, IDBI Bank Ltd approached NCLT, Hyderabad on 09 September 2018, for initiating procedure prescribed under the Insolvency and Bankruptcy Code, 2016. The company filed preliminary reply contending that in view of declaration of RBI circular is ultra vires as the same is in contravention to the provisions in section 35AA and 45L of the Banking Regulation Act, hence all the action taken pursuant to RBI Circular dated 12 February 2018, must fall as the RBI Circular has no effect in law. Hence, the petition filed by IDBI Bank Ltd is not maintainable. The petition is yet to be admitted in NCLT, Hyderabad. Hon'ble Supreme Court vide its judgement dated 02 April 2019, quashed the RBI Circular as well as all consequential actions passed.

Management based on internal assessment/legal advice believes that the aforementioned petitions will be decided in its favor and hence cancellation of coal mine will not impact the operations of the power project and it is also confident of receiving approval from the lenders for resolution plan and also implementing the same within the specified timelines. Accordingly, Management is of the view that no provision is required to be made to carrying value of Property, plant and equipment of INR 3,81,370.25 lakhs (including intangible assets) and also no provision towards corporate guarantee is necessary.

33. Accounting Standards issued but not yet effective:

On 30 March 2019, Ministry of Corporate Affairs issued Companies (Indian Accounting Standards) Amendment Rules, 2019 notifying Ind AS 116- "Leases". Ind AS 116 will replace Ind AS 16. Ind AS 116 introduces major changes in the principles for measuring, recognizing and presenting leases in the financial statements of lessees. As of 01 April 2019, Ind AS 116 requires lessees to recognize most leases using a single accounting model, i.e., the same model as that used to recognize finance leases under Ind AS 17. The lessee will recognize:

- a non-current asset representing its right to use the leased asset, in the statement of financial position;
- a financial liability representing its obligation to pay for the right to use the asset, in the statement financial position;
- amortization of the right-of-use asset and interest expenses on the lease liability, in the statement of income.

The main measures included in Ind AS 116 to simplify application and adopted by the Company are:

- exclusion of short-term leases;
- exclusion of leases of low-value assets.

The Company will apply Ind AS 116 using the modified retrospective approach. This simplified approach does not require restatement of financial statements published before the date Ind AS 116 is first applied.

Within the scope of its transition to Ind AS 116, the Company has elected the following main options to simplify application:

- exclusion of leases with a residual term of 12 months or less at the transition date, along with leases of low-value assets;
- application of Ind AS 116 only to contracts previously identified as leases;
- use of the initial lease term to determine the discount rate at the transition date;
- exclusion of initial direct costs from the measurement of the right-of-use asset at the date of initial application.

The Company is currently finalizing its assessment of the impact of applying Ind AS 116 on its financial statements, based on the leases identified and an analysis of their main terms and conditions. The Company mainly has lease contracts for land and buildings which are currently accounted for as operating leases and for which it will be required to recognize a right-of-use asset under Ind AS 116.

The MCA has also carried out amendments of the following accounting standards:

- (a) Appendix C to Ind AS 12: Uncertainty over Income Tax Treatment
- (b) Amendments to Ind AS 109: Prepayment Features with Negative Compensation
- (c) Amendments to Ind AS 19: Plan Amendment, Curtailment or Settlement
- (d) Amendments to Ind AS 28: Long-term interests in associates and joint ventures
- (e) Annual improvement to Ind AS (2018)
 - Amendments to Ind AS 103: Party to a Joint Arrangements obtains control of a business that is a Joint Operation
 - Amendments to Ind AS 111: Joint Arrangements
 - Amendments to Ind AS 12: Income Taxes
 - Amendments to Ind AS 23: Borrowing Costs

Application of above standards are not expected to have any significant impact on the Company's Financial Statements.

34. During the year the Company as per Indian Accounting Standards ("Ind AS") - 115 "Revenue from Customer Contracts" has reclassified unbilled revenue to Contract assets.

As per our report of even date

For and on behalf of the Board of Directors

For K.S.Rao & Co.,

Chartered Accountants

Firms' Registration Number: 003109S

P. Pardhasaradhi Rao P

(Pardhasaradhi Rao P)

Partner

Membership Number: 224777



P V Prasanna Reddy
Chairman
DIN:01259482

K N Bhavani Shankar
Chief Financial Officer

B. Chandrakar
Company Secretary

Membership No : A43673

Place: Hyderabad

Date : May 15, 2019

Annexure - 1 (2 of 3) - Provisional Accounts for FY 2019-20

GVK Power (Goindwal Sahib) Limited
Balance Sheet as at March 31st, 2020

(All amounts in INR lakhs unless otherwise stated)			
Particulars	Notes	As at March 31, 2020	As at March 31, 2019
ASSETS			
Non-current assets			
Property, plant and equipment	3	3,59,096.59	3,79,813.67
Intangible assets	4	1,317.03	1,556.58
Financial assets			
Investments	5	0.01	0.01
Other financial assets	6	402.84	402.84
Other non-current assets	7	6,818.80	6,818.99
Total Non - Current Assets		3,67,635.27	3,88,592.09
Current Assets			
Inventories	8	23,485.61	5,397.27
Financial assets			
Trade receivables	9		44,745.80
Cash and cash equivalents	10	46,209.48	22,125.29
Loans	11	6,544.77	6,544.77
Other financial assets	6	80.51	18.03
Current tax assets (net)	12	672.26	298.21
Other current assets	7	1,420.32	9,143.15
Total Current assets		78,412.94	88,272.52
Total Assets		4,46,048.21	4,76,864.61
EQUITY AND LIABILITIES			
Equity			
Equity share capital	13	1,26,519.56	1,26,519.56
Other equity	14	(2,66,786.54)	(2,18,608.11)
Total Equity		(1,40,266.97)	(92,088.55)
Liabilities			
Non-current liabilities			
Provisions	16	34.31	18.20
Total Non-current liabilities		34.31	18.20
Current liabilities			
Financial liabilities			
Borrowings	18	58,458.75	50,872.64
Trade payables - Total outstanding dues of :			
: Micro and Small Enterprises		-	-
: Creditors other than Micro and Small enterprises	19	4,370.77	5,024.21
Other financial liabilities	15	5,40,664.44	5,12,411.64
Provisions	16	69.33	55.28
Other current liabilities	17	238.35	571.19
Total Current liabilities		6,03,801.64	5,68,934.96
Total Liabilities		6,03,835.95	5,68,953.16
Total Equity and Liabilities		4,63,568.98	4,76,864.61

For K.S.Rao & Co.,
Chartered Accountants
Firms' Registration Number: 003109S

For and on behalf of the Board of Directors

(Pardhasaradhi Rao P)
Partner
Membership Number: 224777

P V Prasanna Reddy
Chairman
DIN:01259482

Place: Hyderabad
Date : Feb 6th, 2020

Annexure - 1 (2 of 3) - Provisional Accounts for FY 2019-20

GVK Power (Goindwal Sahib) Limited

Statement of Profit and Loss for the nine months period ended March 31, 2020

(All amounts in INR lakhs unless otherwise stated)

Particulars	Notes	For the year ended March 31, 2020	For the year ended March 31, 2019
Income			
Revenue from operations	20	1,20,958.41	1,51,564.35
Other income	21	2,166.91	27.09
Total income		1,23,125.32	1,51,591.44
Expenses			
Cost of materials consumed		54,896.09	1,11,236.40
Employee benefits expense	22	1,514.52	1,266.59
Finance costs	23	77,335.59	71,527.28
Depreciation and amortisation expense	24	21,305.42	21,285.01
Other expenses	25	16,247.69	13,067.43
Total expenses		1,71,299.31	2,18,382.71
Loss before tax		(48,173.99)	(66,791.27)
Tax expense			
Current Tax		-	-
Excess provision of Income Tax of earlier years		-	1.73
Deferred tax		-	-
Total tax expense		-	1.73
Loss for the period /year		(48,173.99)	(66,789.54)
Other Comprehensive Income			
Items that will not be reclassified subsequently to profit or loss			
Remeasurements of defined benefit plans		(4.44)	(5.92)
Tax on above		-	-
Total other comprehensive income		(4.44)	(5.92)
Total comprehensive income for the period/year		(48,178.43)	(66,795.46)
Earnings per equity share			
(Equity shares, par value of INR 10 each)			
Basic - INR	26	(3.81)	(5.31)
Diluted - INR		(3.81)	(5.31)

The accompanying notes form an integral part of the financial statements
This is the statement of Profit and Loss referred to our report

As per our report of even date

For and on behalf of the Board of Directors

For K.S.Rao & Co.,
Chartered Accountants
Firms' Registration Number: 003109S

P V Prasanna Reddy
Chairman
DIN:01259482

(Pardhasaradhi Rao P)
Partner
Membership Number: 224777

Place: Hyderabad
Date : Feb 6th 2020

Babita Chandrakar
Company Secretary
Membership No : A43673

Annexure - 1 (2 of 3) - Provisional Accounts for FY 2019-20

GVK Power (Goindwal Sahib) Limited

Statement of changes in equity for the period ended March 31, 2020

(All amounts in INR lakhs unless otherwise stated)

a. Equity

Equity shares of INR 10 each issued and subscribed	Number of Shares	Amount
Balance as at March 31, 2017	12517,87,810	1,25,178.78
Additions during the Period	134,07,820	1,340.78
Balance as at March 31, 2018	12651,95,630	1,26,519.56
Additions during the Period	-	-
Balance as at March 31, 2019	12651,95,630	1,26,519.56
Additions during the Period	-	-
Balance as at Jan 31, 2020	12651,95,630	1,26,519.56

b. Other Equity

Particulars	Retained earnings	Other Comprehensive Income	Total
Balance as at March 31, 2018	(1,51,829.37)	16.72	(1,51,812.65)
Loss for the Period	(66,789.54)	-	(66,789.54)
Remeasurements of defined benefit plans	-	(5.92)	(5.92)
Balance as at March 31, 2019	(2,18,618.91)	10.80	(2,18,608.10)
Loss for the Period	(48,173.99)	-	(48,173.99)
Remeasurements of defined benefit plans	-	(4.44)	(4.44)
Balance as at March 31, 2020	(2,66,792.89)	6.36	(2,66,786.53)

Corporate information

1

Summary of significant accounting policies

2

The accompanying notes form an integral part of the financial statements

This is the statement of changes in Equity referred to our report

For K.S.Rao & Co.,

Chartered Accountants

Firms' Registration Number: 003109S

For and on behalf of the Board of Directors

(Pardhasaradhi Rao P)

Partner

Membership Number: 224777

P V Prasanna Reddy

Chairman

DIN:01259482

Place: Hyderabad

Date : Feb 6 th, 2020

Annexure - 1 (2 of 3) - Provisional Accounts for FY 2019-20

GVK Power (Goindwal Sahib) Limited

Notes to financial statements for the period ended March 31, 2020

(All amounts in INR lakhs unless otherwise stated)

3. Property, plant and equipment

Description of Assets	Freehold land	Buildings	Computers	Plant and equipment	Capital Spares	Office equipment	Furniture and fixtures	Vehicles	Total
I. Cost									
As at March 31, 2018	18,208.92	69,989.14	43.18	3,52,262.20	1,290.69	86.88	117.10	57.56	4,42,055.67
Additions	-	-	5.37	84.30	-	12.46	2.87	-	105.00
Disposals	-	-	-	-	-	-	-	-	-
Up to March 31, 2019	18,208.92	69,989.14	48.55	3,52,346.50	1,290.69	99.34	119.97	57.56	4,42,160.67
Additions	-	41.63	26.25	247.93	-	24.45	7.03	-	347.29
Disposals	-	-	-	-	-	-	-	-	-
As at March 31, 2020	18,208.92	70,030.77	74.80	3,52,594.43	1,290.69	123.79	127.00	57.56	4,42,507.96
II. Accumulated depreciation									
Upto April 01, 2018	-	4,575.89	22.90	36,511.56	40.09	71.70	45.74	34.08	41,301.96
Depreciation expense for the year	-	2,331.58	9.13	18,606.80	68.15	4.57	15.71	9.10	21,045.04
On disposals	-	-	-	-	-	-	-	-	-
Up to March 31, 2019	-	6,907.47	32.03	55,118.36	108.24	76.27	61.45	43.18	62,347.00
Depreciation expense for the Period	-	2,338.24	11.63	18,618.81	68.34	6.06	16.07	5.23	21,064.37
On disposals	-	-	-	-	-	-	-	-	-
Up to March 31, 2020	-	9,245.71	43.66	73,737.17	176.58	82.33	77.52	48.41	83,411.37
III. Carrying Amount									
As at March 31, 2018	18,208.92	65,413.25	20.28	3,15,750.64	1,250.60	15.18	71.36	23.48	4,00,753.71
As at March 31, 2019	18,208.92	63,081.67	16.52	2,97,228.14	1,182.45	23.07	58.52	14.38	3,79,813.67
Additions	-	41.63	26.25	247.93	-	24.45	7.03	-	347.29
Disposals	-	-	-	-	-	-	-	-	-
Depreciation expense	-	(2,338.24)	(11.63)	(18,618.81)	(68.34)	(6.06)	(16.07)	(5.23)	(21,064.37)
As at March 31, 2020	18,208.92	60,785.07	31.14	2,78,857.26	1,114.11	41.46	49.48	9.15	3,59,096.59

Annexure - 1 (2 of 3) - Provisional Accounts for FY 2019-20

GVK Power (Goindwal Sahib) Limited

Notes to financial statements for the period ended March 31, 2020

(All amounts in INR lakhs unless otherwise stated)

4. Intangible assets

Description of Assets	Computer software	Right to Use Railway Line	Total
I. Cost			
As at March 31, 2018	5.17	2,393.73	2,398.90
Additions	-	-	-
Disposals	-	-	-
As at March 31, 2019	5.17	2,393.73	2,398.90
Additions	1.50	-	1.50
Disposals	-	-	-
As at March 31, 2020	6.67	2,393.73	2,400.40
II. Accumulated Amortisation			
Upto April 01, 2018	3.92	598.43	602.35
Amortisation expense for the year	0.60	239.37	239.97
On disposals	-	-	-
As at March 31, 2019	4.52	837.80	842.32
Amortisation expense for the Period	1.02	240.03	241.05
On disposals	-	-	-
As at March 31, 2020	5.54	1,077.83	1,083.37
III. Carrying Amount			
As at March 31, 2018	1.25	1,795.30	1,796.55
As at March 31, 2019	0.65	1,555.93	1,556.58
As at March 31, 2020	1.12	1,315.90	1,317.03

Annexure - 1 (2 of 3) - Provisional Accounts for FY 2019-20

GVK Power (Goindwal Sahib) Limited

Notes to financial statements for the period ended March 31, 2020

5. Non-current Investments

Particulars	As at March 31, 2020	As at March 31, 2019
Non-current investments		
Investment carried at Amortised cost		
(i) Equity instruments of Seregarha Mines Ltd (associate company) (unquoted) 51,73,100 shares (2019: 51,73,100) each fully paid up.	517.31	517.31
Less: Provision for diminution in value of investments	(517.31)	(517.31)
	-	-
(ii) Equity instruments of Seregarha Mines Ltd (unquoted) 99 shares (2019: 99) each fully paid up.	0.01	0.01
Total	0.01	0.01

6. Other financial assets

Particulars	As at March 31, 2020	As at March 31, 2019
Non-current		
Margin money deposits with bank	1.96	1.96
Unsecured, considered good		
Deposits recoverable	400.88	400.88
Total non-current other financial assets	402.84	402.84
Current		
Interest accrued	80.51	18.03
Total current other financial assets	80.51	18.03

7. Other assets

Particulars	As at March 31, 2020	As at March 31, 2019
Non-current		
Capital advances		
Unsecured, Considered good	6,818.80	6,818.99
Total non-current assets	6,818.80	6,818.99
Current		
Prepaid expenses	108.68	51.61
Advances to Suppliers	1,308.41	9,003.13
Other Receivables	3.23	88.41
Total current assets	1,420.32	9,143.15

8. Inventories

Particulars	As at March 31, 2020	As at March 31, 2019
Current (lower of cost and net realisable value)		
Raw materials	20,163.02	2,429.59
Stock in Transit	-	951.10
Consumables & Stores	3,322.58	2,016.58
Total	23,485.61	5,397.27

Annexure - 1 (2 of 3) - Provisional Accounts for FY 2019-20

GVK Power (Goindwal Sahib) Limited
Notes to financial statements for the period ended March 31, 2020

9. Trade receivables

Particulars	As at March 31, 2020	As at March 31, 2019
Unsecured, considered good*		
Outstanding for a period exceeding 6 months	6,077.37	18,723.27
Others	19,875.19	29,992.53
Provision of Doubtful Debts	(3,970.00)	(3,970.00)
Total	21,982.57	44,745.80

10. Cash and Cash Equivalents

Particulars	As at March 31, 2020	As at March 31, 2019
Balances with banks in current accounts	45,922.28	20,832.94
Demand drafts in hand	287.20	1,292.35
Total	46,209.48	22,125.29

11. Loans

Particulars	As at March 31, 2020	As at March 31, 2019
Current		
Loans to related parties		
GVK Coal (Tokisud) Company Private Limited (Refer note below)	6,544.77	6,544.77
Total	6,544.77	6,544.77

Note: The Hon'ble Supreme Court of India has de-allocated coal mine allocated to GVK Coal (Tokisud) Company Private Limited and Nominated Authority had offered compensation of INR 14,682 Lakhs as against the claim made by the company of INR 34,562 Lakhs. GVK Coal (Tokisud) Private Limited has received order from Hon'ble High Court of Delhi dated March 09, 2017 based on which it has resubmitted its claim for the balance compensation of INR 19,880 Lakhs to Nominated Authority, Ministry of Coal, Government of India. Management of GVK Coal (Tokisud) Company Private Limited believes that GVK Coal (Tokisud) Company Private Limited will be appropriately reimbursed for cancelled coal mine. Accordingly no provision is made.

12. Current tax assets (net)

Particulars	As at March 31, 2020	As at March 31, 2019
Advance tax and Tax deducted at source (net of provision for tax)	672.26	298.21
Total	672.26	298.21

The Income tax expense for the year can be reconciled to the accounting profit as follows

Particulars	For the year ended March 31, 2020	For the year ended March 31, 2019
Loss before tax	(48,173.99)	(66,791.27)
Effective tax rate	31.20%	31.20%
Income tax expense calculated at effective tax rate	(15,030.28)	(20,838.88)
Deferred Tax asset on carry forward business loss and unabsorbed depreciation and other is not recognised due to lack of convincing evidence of reversal of the same against taxable income in the forceable future	(15,030.28)	(20,838.88)
Income tax expense recognised in profit or loss	-	-

Annexure - 1 (2 of 3) - Provisional Accounts for FY 2019-20

GVK Power (Goindwal Sahib) Limited
Notes to financial statements for the period ended March 31, 2020

13. Share capital

Particulars	As at March 31, 2020	As at March 31, 2019
Authorised share capital:		
150,00,00,000 (2019: 150,00,00,000) Equity shares of INR 10 each	1,50,000.00	1,50,000.00
Issued and subscribed capital:		
126,51,95,630 (2019: 126,51,95,630) each fully paid up.	1,26,519.56	1,26,519.56
Total	1,26,519.56	1,26,519.56

Notes:

(A) Reconciliation of the number of shares outstanding:

Particulars	Number of shares	Number of shares
As at March 31, 2018	12651,95,630	12651,95,630
Issue of shares	-	-
As at March 31, 2019	12651,95,630	12651,95,630
Issue of shares	-	-
As at March 31, 2020	12651,95,630	12651,95,630

(B) Details of shares held by each shareholder holding more than 5% shares of shares outstanding and shares held by Holding Company

Particulars	As at March 31, 2020		As at March 31, 2019	
	Number of shares held	% holding of equity shares	Number of shares held	Number of shares held
GVK Energy Ltd including nominee	12651,94,930	100%	12651,94,930	12651,94,930

(C) Rights, preferences and restrictions attached to equity shares including restriction on the distribution of dividend

The Company has only one class of equity share having par value of INR 10 per share. Each holder of equity shares is entitled to one vote per share. The Company declares and pays dividends in Indian Rupees. The dividend proposed by the Board of Directors is subject to the approval of the shareholders in the ensuing Annual General Meeting. In the event of liquidation of the Company, the holders of equity shares will be entitled to receive remaining assets of the company, after distribution of all preferential amounts. The distribution will be in proportion to the number of equity shares held by the shareholders.

(D) Shares held by Holding company

The entire share capital is held by GVK Energy Limited, the holding company along with its nominee.

14.1 Retained earnings

Particulars	As at March 31, 2020	As at March 31, 2019
Balance at beginning of the period/year	(2,18,608.11)	(1,51,812.65)
Loss for the period	(48,173.99)	(66,789.54)
Other comprehensive income for the period/year	(4.44)	(5.92)
Balance at end of period/year	(2,66,786.54)	(2,18,608.11)

Annexure - 1 (2 of 3) - Provisional Accounts for FY 2019-20

GVK Power (Goindwal Sahib) Limited

Notes to financial statements for the period ended March 31, 2020

15. Financial liabilities

Particulars	As at March 31, 2020	As at March 31, 2019
Current		
Current maturities of Long term borrowings	3,76,189.49	4,05,564.17
Interest accrued and due on borrowings	1,48,663.41	85,223.78
Interest accrued but not due on borrowings	225.27	502.91
Retention monies	11,653.66	11,642.36
Employee Dues	107.90	102.61
Liabilities for Expenses	3,824.70	9,375.81
Total	5,40,664.44	5,12,411.64

Summary of borrowings

Particulars	As at March 31, 2020	As at March 31, 2019
Secured Term Loans		
- from Banks	2,88,123.83	3,17,354.24
- from Financial Institutions	58,140.41	58,710.00
Secured Bonds from Banks	30,700.00	30,700.00
	3,76,964.24	4,06,764.24
Less: Unamortised Transaction Costs	(774.75)	(1,200.07)
Total	3,76,189.49	4,05,564.17

Annexure - 1 (2 of 3) - Provisional Accounts for FY 2019-20

GVK Power (Goindwal Sahib) Limited

Notes to financial statements for the period ended March 31, 2020

16. Provisions

Particulars	As at March 31, 2020	As at March 31, 2019
Provision for employee benefits		
Non -current		
Gratuity	34.31	18.20
Current		
Compensated absence	69.33	55.28
Total	103.64	73.48

17. Other liabilities

Particulars	As at March 31, 2020	As at March 31, 2019
Current		
Statutory remittances	222.53	552.21
Others	15.82	18.98
Total	238.35	571.19

18. Current borrowings

Particulars	As at March 31, 2020	As at March 31, 2019
Secured		
Working Capital facilities from Banks	58,458.75	50,872.64
Total	58,458.75	50,872.64

Annexure - 1 (2 of 3) - Provisional Accounts for FY 2019-20

GVK Power (Goindwal Sahib) Limited

Notes to financial statements for the period ended March 31, 2020

20. Revenue from operations

Particulars	For the year ended March 31, 2020	For the year ended March 31, 2019
Capacity Charges	75,287.69	62,713.58
Energy Charges	46,933.44	91,125.08
UI Sales	(50.27)	(65.38)
Less: Rebate	(1,212.45)	(2,208.93)
Total	1,20,958.41	1,51,564.35

21. Other income

Particulars	For the year ended March 31, 2020	For the year ended March 31, 2019
Interest income on financial assets carried at amortised cost		
Bank deposits	260.94	22.47
Other non-operating income		
Other interest income	1,901.43	-
Credit balances written back		0.22
Sale of scrap	4.54	4.40
Total	2,166.91	27.09

22. Employee Benefits Expense

Particulars	For the year ended March 31, 2020	For the year ended March 31, 2019
Salaries and wages	1,391.20	1,157.94
Contribution to provident and other funds	92.69	83.58
Gratuity	16.81	15.33
Staff welfare expenses	13.82	9.74
Total	1,514.52	1,266.59

23. Finance costs

Particulars	For the year ended March 31, 2020	For the year ended March 31, 2019
Interest on : Fixed Loans	69,619.06	63,628.68
: Working capital facilities	7,586.11	6,481.75
Interest others	129.53	1,389.19
Other finance charges	0.90	27.66
Total	77,335.59	71,527.28

24. Depreciation and amortisation expense

Particulars	For the year ended March 31, 2020	For the year ended March 31, 2019
Depreciation of property, plant and equipment	21,064.37	21,045.04
Amortisation of intangible assets	241.05	239.97
Total	21,305.42	21,285.01

Annexure - 1 (2 of 3) - Provisional Accounts for FY 2019-20

GVK Power (Goindwal Sahib) Limited

Notes to financial statements for the period ended March 31, 2020

25. Other expenses		
Particulars	For the year ended March 31, 2020	For the year ended March 31, 2019
Consumption of Stores and Spares	1,429.05	1,164.39
Power and Fuel	1,009.70	435.47
Demurrage Charges	1,158.44	-
Contract Manpower	1,881.99	1,662.70
Repairs: Buildings	20.83	29.52
: Plant and Machinery	242.27	147.54
: Other assets	157.26	105.84
Ash Handling Charges	304.97	310.23
Insurance	722.10	284.54
Rent	8.00	6.19
Rates and Taxes	135.33	112.38
Legal and Professional Charges	1,300.83	933.86
Audit Remuneration: Statutory Audit	8.85	7.08
: Tax Audit	1.77	-
: Other Services	1.77	0.21
Communication Costs	13.06	7.73
Travelling Expenses	107.90	98.24
Miscellaneous expenses	671.18	211.91
Bad debts written off	-	1,842.42
Provision for doubtful debts	-	3,970.00
Liquidated Damages	-	1,737.18
EMD deduction	11.25	-
Penalty – Seller event of default	7,061.14	-
Total	16,247.69	13,067.43

MINISTRY OF CORPORATE AFFAIRS
RECEIPT
G.A.R.7

SRN : H90816851

Service Request Date : 18/09/2019

Payment made into : State Bank of India

Received From :

Name : PENUMARTHY SRINIVAS Srinivas SRINIVAS
Address : Dharani andalu Complex , room No 4 , 1st Floor
RTC 'X' Road
Hyderabad, Telangana
IN - 500020

Entity on whose behalf money is paid

CIN: U40109TG1997PLC028483
Name : GVK POWER (GOINDWAL SAHIB) LIMITED
Address : PLOT NO 10 PAIGAH COLONY
SARDAR PATEL ROAD
SECUNDERABAD, Telangana
India - 500003

Full Particulars of Remittance

Service Type: eFiling

Service Description	Type of Fee	Amount(Rs.)
Fee For Form CRA-4	Normal	600.00
	Additional	1200.00
Total		1800.00

Mode of Payment: Internet Banking - State Bank of India**Received Payment Rupees:** One Thousand Eight Hundred Only

Note -The Registrar may examine this eForm any time after the same is processed by the system under Straight Through Process (STP). In case any defects or incompleteness in any respect is noticed by the Registrar , then this eForm shall be treated and labeled as defective and the eForm shall have to be filed afresh with the fee and additional fee, as applicable. (Please refer Rule 10 of the Companies (Registration offices offices and Fees) Rules, 2014)

FORM NO. CRA-4

[Pursuant to section 148(6) of Companies Act, 2013 and rule 6(6) of the Companies (cost records and audit) Rules, 2014]



Form for filing Cost Audit Report with the Central Government

Form Language English Hindi

Refer the instruction kit for filing the form.

1.(a) *Corporate identity number (CIN) or foreign company registration number (FCRN) of the company

(b) Global location number (GLN) of company

2.(a) Name of the company

(b) Address of the registered office or of the principal place of business in India of the company

(c) *e-mail ID of the company

(d) *SRN of 23C/ CRA-2 filed for appointment of Cost Auditor(s)

3. (a) *Financial year for which cost auditor was initially appointed
From (DD/MM/YYYY) To (DD/MM/YYYY)

(b) *Whether any change in Financial Year Yes No

(d) *Date of Board of Directors meeting in which Annexure to the cost audit report was approved (DD/MM/YYYY)

4. (a) *State number of Industries/ Sectors/ Product(s)/ Service(s) (CETA heading level, wherever applicable as per Rules) for which the Cost Audit Report is being submitted

(i) Regulated

(ii) Non-Regulated

(b) Details of such Industries/ Sectors/ product(s)/ service(s) of the company

(i) Details of such industries/sectors/products/services under regulated sectors

Industries/sectors/products/services	CETA heading (wherever Applicable)	No. of tariff items/Products/services
Electricity	2716	1

(ii) Details of such industries/sectors/products/services under non-regulated sectors

Industries/sectors/products/services	CETA heading (wherever Applicable)	No. of tariff items/Products/services

Annexure - 1 (3 of 3) - Cost Audit Report for FY 2018-19

5 (a) *State number of Industries/ Sectors/ Product(s)/ Service(s) (CETA heading level, wherever applicable as per Rules) not covered in the Cost Audit Report

(i)	Regulated	0
(ii)	Non-Regulated	0

(b) (i) Details of such Industries/ Sectors/ product(s)/ service(s) of the company under regulated sector

Industries/sectors/products/services	CETA heading (wherever Applicable)	No. of tariff items/Products/ services

(b) (ii) Details of such Industries/ Sectors/ product(s)/service(s) of the company under non-regulated sector

Industries/sectors/products/services	CETA heading (wherever Applicable)	No. of tariff items/Products/ services

(6) Details of the cost auditor(s) appointed

* (i) Number of cost auditor(s) appointed 1

(a) *Category of the auditor Individual Partnership firm Limited liability partnership (LLP)

(b)(i) *Membership number of the Cost Auditor/ member representing the Cost Auditor's Firm/LLP 21170

(ii) * Name of the Cost Auditor/ member representing the Cost Auditor's Firm/LLP
Penumarthy Srinivas

(iii) * Firm registration number(FRN) of the Cost Auditor/Cost Auditor's firm/LLP 100309

(iv) * Name of the Cost Auditor's firm/LLP
Penumarthy Srinivas

(c) (i) Address * Line I H.NO 97/2RT , Vijayanagar Colony ,
 Line II

(ii) *City Hyderabad

(iii) *State Telangana-TG

(iv) Country INDIA

(v) * Pin code 500057

(vi) *e-mail ID of the firm or member psrinu1122@yahoo.com

(d) *Date of the board meeting in which cost auditor was appointed 25/04/2018 (DD/MM/YYYY)

(e) *Type of appointment Original Appointment due to casual vacancy
 Appointment for new products/services/locations

(f) *Scope of audit of the cost auditor/firm/LLP Cost Audit as per Section 148 of Companies Act 2013 FY 20

(g) *Date of receipt of copy of cost audit report by the company 22/07/2019 (DD/MM/YYYY)

Annexure - 1 (3 of 3) - Cost Audit Report for FY 2018-19

7. (a) *Whether the cost auditor's report has been qualified Yes No

If yes, please state

(b) *Whether cost auditor's report has any reservations Yes No

If yes, please state

(c) *Whether the cost auditor's report has any adverse remarks Yes No

If yes, please state

(d) *Whether the cost auditor's report contain any observations or suggestions

If yes, cost auditor's observations/ suggestions Yes No

a) The Cost Accounting System in vogue in the company

Attachments

(1) *XBRL document in respect of the cost audit report and company's information and explanations on every qualification and reservation contained therein

Attach

List of attachments

GVK POWER GOINDWAL SAHIB LTD

(2). Optional attachment, if any.

Attach

Remove attachment

Declaration

*To the best of my knowledge and belief, the information given in this form and its attachments is correct and complete

I am authorized by the Board of Directors of the Company vide *resolution number *dated (DD/MM/YYYY)

It is confirmed that the attached XBRL document(s) are the XBRL converted copy(s) of the duly signed cost audit report as required under Section 148(2) and company's information and explanations as required under Section 148(6) of the Companies Act, 2013 and the rules made thereunder. It is further confirmed that such document(s) have been prepared using XBRL taxonomy as notified by the Ministry of Corporate Affairs for this purpose.

***To be digitally signed by**

Director or Manager or CEO or CFO or Secretary of the company
(in case of Indian company) or authorised representative
(in case of Foreign company)

*Designation

*Director identification number of the Director; or PAN of the
Manager or CEO or CFO or authorized representative;
or membership number of the Company Secretary

Note: Attention is drawn to provisions of Section 448 and 449 which provide for punishment for false statement / certificate and punishment for false evidence respectively.

Modify

Check Form

Prescrutiny

Submit

This form has been taken on file by the Central Government through electronic mode and on the basis of statement of correctness given by the company

CMA PENUMARTHY SRINIVAS
COST ACCOUNTANT

H. No. 97/2RT, Vijaya Nagar Colony, Hyderabad - 500 057.
E-mail : psrinu1122@yahoo.com

Date : 22-07-2019

COST AUDIT REPORT

I, P. SRINIVAS having been appointed as Cost Auditors under section 148(3) of the Companies Act, 2013 (18 of 2013) of GVK Power (Goindwal Sahib) LIMITED, having its registered office at Plot no 10, Paigah Colony, Sardar Patel Road, Secunderabad, Telangana - 500003 (hereinafter referred to as the company), have audited the Cost Records maintained under section 148 of the said Act, in compliance with the cost auditing standards, in respect of the **ELECTRICITY** for year 2018-2019 maintained by the company and report, in addition to my observations and suggestions in para 2.

- (i) I have obtained all the information and explanations, which to the best of my knowledge and belief were necessary for the purpose of this audit.
- (ii) In my opinion, proper cost records, as per rule 5 of the Companies (Cost Records and Audit) Rules, 2014 have been maintained by the company in respect of product(s)/service(s) under reference.
- (iii) In my opinion, proper returns adequate for the purpose of the cost audit have been received from the branches not visited by me.
- (iv) In my opinion and to the best of my information, the said books and records give the information required by the Companies Act, 2013, in the manner so required.
- (v) In my opinion, the company has have adequate system of internal audit of cost records which to my opinion is commensurate to its nature and size of its business.
- (vi) In my opinion, information, statements in the annexure to this cost audit report gives a true and fair view of the cost of production of product(s)/rendering of service(s), cost of sales, margin and other information relating to product(s)/service(s) under reference.
- (vii) Detailed unit-wise and product/service-wise cost statements and schedules thereto in respect of the product /service under reference of the company duly audited and certified by me kept in the company.



CMA PENUMARTHY SRINIVAS

COST ACCOUNTANT

H. No. 97/2RT, Vijaya Nagar Colony, Hyderabad - 500 057.
E-mail : psrinu1122@yahoo.com

Date : 22 - 07 - 2019

2. Observations and suggestions, if any, of the Cost Auditor, relevant to the cost audit.

a) The Cost Accounting System in vogue in the company is adequate as per size of the company and the nature of business.

(b) In our opinion, the internal control of Cost Records is adequate as per size of the company and the nature of business.

Dated: 22-07-2019
At Hyderabad

P. Srinivas
SIGNATURE AND SEAL OF THE COST AUDITOR (S)
MEMBERSHIP NUMBER (S)M/21170



Annexures to Cost Audit Report

PART-A

1. General Information:

1. Corporate identity number or foreign company registration number:
CIN: U40109TG1997PLC028483
2. Name of Company: GVK Power (Goindwal Sahib) LIMITED
3. Address of registered office or of principal place of business in India of company:
Plot No 10,Paigah Colony,Sardar Paterl Road, Secundrabad Telangana.India-500003
4. Address of corporate office of company:
Plot No 10,Paigah Colony,Sardar Paterl Road, Secundrabad Telangana.India-500003
5. Email Address of Company: gpgsl@gvk.com
6. Date of beginning of reporting financial year:
01-04-2018
7. Date of end of reporting Financial Year:
31-04-2019
8. Date of beginning of previous financial year:
01-04-2017
9. Date of end of previous financial year:
31-03-2018
10. Level of rounding used in cost statements:
In Lakhs
11. Reporting Currency of Entity :
INR
12. Number of cost auditors for reporting period :
One
13. Date of board of directors meeting in which annexure to cost audit report was approved : 22-07-2019



13. Date of board of directors meeting in which annexure to cost audit report was approved : -00-2019

14. Whether cost auditors report has been qualified or has any reservations or contains adverse remarks:

NIL

15. Consolidated qualifications, reservations or adverse remarks of all cost auditors

NIL

16. Consolidated observations or suggestions of all Cost auditors

a) The Cost Accounting System in vogue in the company is adequate as per size of the company and the nature of business.

(b) In our opinion, the internal control of Cost Records is adequate as per size of the company and the nature of business.

17. Whether company has related party transactions for sale or purchase of goods or services:

Yes



2. General Details of Cost Auditor

- 1 Whether cost Auditor is lead auditor:
Yes
- 2 Category of cost auditor:
Individual
- 3 Firm's registration number: 100309
- 4 Name of cost auditor/cost auditor's firm: Penumarthy Srinivas
- 5 PAN of cost auditor/ cost auditor's firm: AOGPS8069B
- 6 Address of cost auditor or cost auditor's firm: H . NO 97 / 2RT ,
Vijaya Nagar Colony , HYDERABAD 500057
- 7 Email id of cost auditor or cost auditor's firm: psrinu1122@yahoo.com
- 8 Membership number of member signing report: 21170
- 9 Name of member signing report: Penumarthy Srinivas
- 10 Name(s) of product(s) or service(s) with CETA heading:
Name of Product: Electrical Energy,CETA: 2716
- 11 SRN number of Form CRA 2: G87829800
- 12 Number of audit committee meeting attended by cost auditor during year:
Zero
- 13 Date of signing cost audit report and annexure by cost auditor:
22-07-2019
- 14 Place of signing cost audit report and annexure by cost auditor: Hyderabad



3. Cost Accounting Policy:

(1) Briefly describe the cost accounting policy adopted by the Company and its adequacy or otherwise to determine correctly the cost of production /operation, cost of sale, sales realization and margin of the product(s)/service(s) under reference separately for each product(s)/service(s). The policy shall cover, inter alia, the following areas:

(a) Identification of cost centres / Cost objects and cost drivers:

Company has been maintaining the Cost Accounting Records and Cost Statements as per Cost Accounting Records (Electricity Industry) Rules, 2011, Companies (Cost Records and Report) rules 2014, Companies Act 2013 and Generally Accepted Cost Accounting Principles (GACAP).

The Company maintained adequate cost accounting systems to determine the cost of production based on the generally accepted cost accounting principles in the industry. The company has followed historical costing system for compilation of the cost records/statements for the year under review. Financial data required for the yearly cost statements is taken from the financial books of account.

Company has identified the cost centres based on group of plant and machinery and production process as explained below:

A. Production cost centres:

1) Power generation

B. Utilities cost centres:

Pretreatment Plant

D M water Plant -

Cooling Towers

Coal handling Plant

Ash handling Plant

C. Service Cost Centres

1. **Factory Overheads:** Factory related administrative expenses like rates and taxes, consultancy charges, green belt expenses, fire and safety expenses, security expenses, office expenses, travelling and conveyance, communication, printing & stationery and other expenses incurred at factory.

2. **Administration Overheads:** Head office related administrative expenses like rent, rates and taxes, consultancy charges, payment to Auditors, corporate support service fee, employee recruitment expenses & training expenses, corporate social responsibility expenses, office expenses, travelling and conveyance, communication, printing & stationery and other expenses incurred at Head office.

(b) Accounting for material cost including packing materials, stores and spares etc., employee cost, utilities and other relevant cost components

1. Accounting of Raw material



The Plant. The company Participated in the Shakti Scheme as announced by The government of India and has been allotted 1.70 Million Tonnes of Coal Per annum. The First tranche of Coal under this schema of 17 Lac MT has been allotted in FY 2018-19 and the cost for the same has been remitted by the company and necessary arrangements are being made for transporting the same to the site . Cost of Coal includes cost of Raw material , Road transportation / handling charges (from mine to Railway Siding) and rail freight (from Railway siding to plant) taxes etc .
The company is following Weighed average cost method for computing Cost of consumption and Closing Stock.

2. Employee Cost: Employee Cost includes all considerations paid & payable to employees of the company including allowances and benefits like bonus, incentives, leave travel assistance, gratuity, employer contribution to PF, medical expenses reimbursement.

3. Utilities Cost: Major Utilities are:

DM Water- All expenditure for production of DM Water like water, chemicals, manpower, etc are accounted separately and charged to P& L directly.

4. Direct Expenses: The payments made to O & M contractors towards Production operations and Plant maintenance works are directly shown in Power Generation cost sheet since these works are carried out by O& M Contract (third party). As per Agreement we are paying these expenses as monthly fee towards Maintenance of plant and production operations works including utilities.

5. Stores and Spares: Company maintains proper records of receipts and issues for stores & spares and consumables by using of inventory accounting package at plant. The valuation of inventory and cost of issue are accounted based on Weighted Average Method..

(c) Accounting, allocation and absorption of overheads:

- Overheads are primarily divided into Factory overhead, Administrative overheads based on nature of expenditure. Factory overhead are allocated among all Production, Utilities and Service cost centers. Total Administrative overheads are directly charged in power Generation cost sheet as the unit produces single product i.e., power generation. Factory Overheads are initially allocated to concerned production and Utilities cost centers and indirectly being charged to Power Generation cost sheet through cost of utilities and services.
- Office Expenses, Travelling and Conveyance, communication Expenses, printing and Stationery, Miscellaneous Expenses are allocated between Factory overhead and Administrative overheads based on Yearly Average Number of Employees worked at factory and Head office. And again these Factory Overheads are re-allocated to production, utilities, and service cost centers.

(d) Accounting for Depreciation / Amortization:
Depreciation methods, estimated useful lives and residual value



Depreciation methods, estimated useful lives and residual value

(i) "Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2014" dated 21st February, 2014 has defined "Generating Station". Accordingly depreciation on the assets covered under the definition of Generating Station has been provided under Straight Line Method at the rates and the manner prescribed under the said regulations as notified vide circular no. 31/2011 dated 31st May, 2011 (CERC Regulations") by Ministry of Corporate Affairs.

(ii) Other tangible assets are depreciated under straight line method at the rates specified under CERC regulations, except for the assets individually costing Rs. 5,000/- or less, which are fully depreciated in the year of acquisition.

The residual values, useful lives and methods of depreciation of property, plant and equipment are reviewed at each financial period/year end and adjusted prospectively, if appropriate.

Intangible assets

Intangible assets with finite useful lives that are acquired separately are carried at cost, net of accumulated amortisation and impairment losses, if any. Cost of an intangible asset comprises of purchase price and attributable expenditure on making the asset ready for its intended use. Amortisation is recognised on a straight-line basis over their estimated useful lives of an asset. The estimated useful life and amortisation method are reviewed at the end of each reporting period, with the effect of any changes in estimate being accounted for on a prospective basis.

An intangible asset is derecognised on disposal, or when no future economic benefits are expected from use or disposal. Gains or losses arising from derecognition of an intangible asset, measured as the difference between the net disposal proceeds and the carrying amount of the asset, are recognised in Statement of Profit or Loss when the asset is derecognised.

Amortization methods and periods

The Company amortises intangible assets with finite useful life over the following periods:

- i) Computer software including software user licenses - 3 years.
- ii) Right to use railway line - 10 years.



(e) Accounting for by-products/joint-products or services, scraps, wastage etc.,:

There is Sale of Scrap which have deducted from Cost of production as Credit in Abridged Cost statement..

(f) Basis for Inventory Valuation:

Coal and stores and spares are stated at cost. Costs are assigned to individual items of inventory and are determined based on weighted average method.

Cost of raw materials comprises cost of purchases and includes all other costs incurred in bringing the inventories to their present location and condition.

Spare parts, stand-by equipment and servicing equipment are recognized in accordance with this Ind AS-16 when they meet the definition of Property, Plant and Equipment. Otherwise, such items are classified as inventory. Spare parts, stand-by equipment and servicing equipment are stated at the lower of cost or net realizable value.

(g) Methodology for valuation of Inter-Unit / Inter Company and Related Party transactions:

The Intercompany transactions include Intercompany and Inter related party transactions are billed at the "Normal Price". The "Normal Prices" are calculated based on Comparable Un-Controrable Price **Method** during the year.

The intercompany transactions in line with the information reported in the 'Notes forming part of the Accounts' and annexed to the audited annual report of the company

(h) Treatment of abnormal and non-recurring costs including classification of other non-cost items:

Abnormal, non-recurring & other non-cost items have been identified separately and not included in the cost records. All such cost have been disclosed Profit Reconciliation Statement (Part-D (2)).

(i) Other relevant cost accounting policy adopted by the Company

Nil

(2) fly specify the changes, if any, made in the cost accounting policy for the product(s) / service(s) under audit during the current financial year as compared to the previous financial year.

There have not been any changes made in the cost accounting policy for the cost accounting records of the company during the current financial year as compared to previous financial year.

(3) Observations of the Cost Auditor regarding adequacy or otherwise of the Budgetary Control System, if any, followed by the company.

Budgetary control system – In our opinion & as explained to us, the Company has adequate budgetary control systems to commensurate with the size and nature of its business.



PART-A
For Manufacturing Sector

4. PRODUCT / SERVICE DETAILS (for the company as a whole)

Name of Product(s)/Service(S)	UOM	CETA heading (wherever applicable)	Whether Covered under Cost Audit Yes/ No	Net Operational Revenue (net of taxes, duties Etc.)	
				FY 2018-19 Rs In Lakhs.	FY 2017-18 Rs In Lakhs.
1. Electrical Energy	Millon Kwh	2716	Yes	1,53,773.28	89,348.80
2. Ancillary products or activities not else where specified				-	-
Total Net revenue from operations				1,53,773.28	89,348.80
Other Income of company				27.09	60.58
Total Revenue as per Financial accounts				1,53,800.37	89,409.38
Exceptional, Extra Ordinary and Other Comprehensive Income, if any				(4.19)	9.17
Total Revenue including Exceptional, Extra Ordinary and Other Comprehensive Income, if any				1,53,796.18	89,418.55
Turnover as per GST Records				0	109.43
Note:					
1. Previous year figures have been regrouped and reclassified wherever necessary to conform to the current year classification.					
2. Total revenue as per Financial Accounts is for the Previous year FY 2017-18 , whereas Turnover as per service Tax returns is for the period upto 30th June'2017.					
3. For FY 2018-19 Excise Duty and Service tax is not Applicable .					



PART-B

For Manufacturing Sector

1. QUANTITATIVE INFORMATION (for each product with CETA heading separately)

Name of Product CETA Heading	Electrical Energy		
		2716	
Particulars	Unit	FY 2018-19	FY 2017-18
1.Availability Capacity			
(a) Installed Capacity	Millon Kwh	4,730.40	4,730.40
(b) Capacity enhanced during the year, if any	Millon Kwh	-	-
(c) Capacity available through leasing arrangements, if any	Millon Kwh	-	-
(d) Capacity available through loan license /third parties	Millon Kwh	-	-
(e) Total available Capacity	Millon Kwh	4,730.40	4,730.40
2.Actual Production	Millon Kwh		
(a) Self manufactured	Millon Kwh	2,444.38	1,538.07
(b) Produced under leasing arrangements	Millon Kwh	-	-
(c) Produced on loan License/by third parties on job work	Millon Kwh	-	-
(d) Total Production	Millon Kwh	2,444.38	1,538.07
3.Production as per Excise Records		Not applicable	Not applicable
4.Capacity Utilization (in house)	%	51.67%	32.51%
5.Finished Goods Purchased			
(a) Domestic Purchase of Finished goods	Millon Kwh	-	-
(b) Imports of Finished Goods	Millon Kwh	-	-
(c) Total Finished Goods Purchased	Millon Kwh	-	-
6.Stock and other Adjustments			
(a) Change in stock of Finished Goods	Millon Kwh	-	-
(b) Self /Captive Consumption (Incl. Samples etc.)	Millon Kwh	232.70	146.14
(c) Other Quantitative Adjustments, if Any (wastage etc.)	Millon Kwh	-	-
(d) Total Adjustments	Millon Kwh	232.70	146.14
7.Total Available Quantity for Sale [2(d)+5(c) +6(d)]	Millon Kwh	2,211.68	1,391.93
8.Actual Sales			
(a) Domestic Sales of Product	Millon Kwh	2,211.68	1,391.93
(b) Domestic Sales of Traded Product	Millon Kwh	-	-
(c) Export sale of Product	Millon Kwh	-	-
(d) Export Sale of traded Product	Millon Kwh	-	-
(e) Total Quantity Sold	Millon Kwh	2,211.68	1,391.93



2. ABRIDGED COST STATEMENT (For each product with CETA heading separately)

Name of Product		Electrical Energy					
CETA Heading		2716					
Unit of Measure		Million Kwh					
	Production	Finished Goods Purchased	Finished Stock Adjustment	Captive Consumption	Other Adjustments	Quantity Sold	
	FY 2018-19	2,444.38	-	-	232.70	-	2,211.68
	FY 2017-18	1,538.07	-	-	146.14	-	1,391.93
S No.	Particulars	Current FY 2018-19		Previous FY 2017-18			
		Amount Rs. In Lakhs	Rate per Unit Rs.	Amount Rs. In Lakhs	Rate per Unit Rs.		
1	Material Consumed (Specify Details as per Para 2A)	1,11,236.40	5.029	63,558.35	4.566		
2	Process Materials/Chemicals	-	-	-	-		
3	Utilities (Specify details as per 2B)	2,248.80	0.102	3,092.69	0.222		
4	Direct Employees Cost	325.85	0.015	66.75	0.005		
5	Direct Expenses	4,232.47	0.191	4,180.10	0.300		
6	Consumable Stores and Spares	676.42	0.031	652.52	0.047		
7	Repairs and Maintenance	196.76	0.009	205.04	0.015		
8	Quality Control Expenses	-	-	-	-		
9	Research and Development Expenses	-	-	-	-		
10	Technical Know-how Fee/Royalty	-	-	-	-		
11	Depreciation/Amortization	17,055.15	0.771	17,041.58	1.224		
12	Other Production Overheads	1,662.70	0.075	1,347.83	0.097		
13	Industry Specific Operating Expenses (specify details as per Para 2C)	-	-	-	-		
14	Total (1 to 13)	1,37,634.55	6.223	90,144.86	6.476		
15	Increase/Decrease in Work-in-Progress	-	-	-	-		
16	Less: Credits for Recoveries, if any	4.40	0.000	8.93	0.001		
17	Primary Packing Cost	-	-	-	-		
18	Cost of Production /Operations (14+15 to 17)	1,37,630.15	6.223	90,135.93	6.476		
19	Cost of Finished Goods Purchased	-	0	-	0		
20	Total Cost of Production and Purchases (18+19)	1,37,630.15	6.223	90,135.93	6.476		
21	Increase/Decrease in Stock of Finished Goods	-	-	-	-		
22	Less: Self/Captive Consumption (Incl. Samples,etc.)	-	-	-	-		
23	Other Adjustments (if any)	-	-	-	-		
24	Cost of Production /Operation of Product Sold (20+21 to 23)	1,37,630.15	6.223	90,135.93	6.476		
25	Administrative Overheads	1,671.28	0.076	2,115.52	0.152		
26	Secondary Packing Cost	-	-	-	-		
27	Selling and Distribution Overheads	2,208.93	0.100	799.07	0.057		
28	Cost of Sales before Interest (24 to 27)	1,41,510.36	6.398	93,050.52	6.685		
29	Interest and Financing Charges	71,527.28	3.234	62,693.65	4.504		
30	Cost of Sales (28+29)	2,13,037.64	9.632	1,55,744.17	11.189		
31	Net Sales Realization (Net of Taxes and Duties)	1,53,773.28	6.953	89,355.29	6.420		
31	Margin [Profit/(loss) as per cost Accounts] (31 - 30)	(59,264.36)	(2.68)	(66,388.88)	(4.770)		



2A. Details of Materials Consumed

Name of Product			Electrical Energy					
CETA heading			2716					
CETA heading	Category	UOM	Current - FY 2018-19			Previous - FY 2017-18		
			Qty	Rate per Unit (Rs.)	Amount Rs. In Lakhs	Qty	Rate per Unit (Rs.)	Amount Rs. In Lakhs
Coal		MT	17,07,168	6,515.84	1,11,236.40	10,05,287	6,293.67	63,269.44
2. Secondary Fuel - LDO / HFO					-			288.91
Total					1,11,236.40			63,558.35

2B. Details of Utilities Consumed

Name of Product		Electrical Energy					
CETA heading		2716					
Description of Material	UOM	Current - FY 2018-19			Previous - FY 2017-18		
		Qty	Rate per Unit Rs.	Amount Rs.in Lakhs	Qty	Rate per Unit Rs.	Amount Rs. In Lakhs
1. DM Water	M3	74726	105.91	79.14	149705	49.44	74.01
2. Cooling towers makeup water Cost	M3	3676101	47.17	1,734.19	2584841	65.21	1,685.62
3 Power Cost	KWH			435.47			1,333.06
Total				2,248.80			3,092.69

2C. Details of Industry Specific Operating Expenses

Name of Product		Electrical Energy		
CETA heading		2716		
Description of Material		FY 2018-19		FY 2017-18
		Amount Rs. In Lakhs	Amount Rs. In Lakhs	Amount Rs. In Lakhs
1				
Total		0		0



PART-C

For Service Sector

1. QUANTITATIVE INFORMATION (for each service separately)			
Name of Service	NIL		
Service Code (If applicable)			
Particulars	UOM	FY 2018-19	FY 2017-18
1.Available Capacity			
(a) Installed Capacity		-	-
(b) Capacity enhanced during the year, if any		-	-
(c) Total available Capacity		-	-
2.Actual Service Provided			
(a) Own Services		-	-
(b) Services under contractual arrangements		-	-
(c) Outsourced Services		-	-
(d) Total Services		-	-
3.Total Services provided as per service Tax Records		-	-
4.Capacity Utilization (in-House)		-	-
5.Actual Sales			
(a) Services rendered - Domestic		-	-
(b) Services rendered - Export		-	-
(c) Total Services Rendered		-	-
Note: There are no services provided/ rendered which are covered in Companies Cost (Records and Report) Rules 2014 during the Current Financial Year.			



PART-D

1. PRODUCT AND SERVICE PROFITABILITY STATEMENT (for audited products/services)

S No.	Particulars	Current FY 2018-19			Previous FY 2017-18		
		Sales Rs.In lakhs	Cost of Sales Rs. In Lakhs	Margin Rs. In Lakhs	Sales Rs.In lakhs	Cost of Sales Rs. In Lakhs	Margin Rs. In Lakhs
1	Electrical Energy	1,53,773.28	2,13,037.64	(59,264.36)	89355.29	155744.17	(66,388.88)
	Total	1,53,773	2,13,038	(59,264)	89,355	1,55,744	(66,389)

2. PROFIT RECONCILIATION (for the company as whole)

S.No.	Particulars	Current FY 2018-19 Rs. In lakhs	FY 2017-18 Rs.In Lakhs
1	Profit or Loss as per Cost Accounting Records	(59,264.36)	(66,389)
	(a) For the Audited product(s)/Services(s)	(59,264.36)	(66,215.56)
	(b) For the Un-Audited product(s)/Services(s)	-	-
2	Add: Incomes not considered in cost accounts (specify details)	22.69	51.65
	a) Credit Balances Written Back	0.22	4.71
	b) Interest On Deposits	22.47	46.94
3	Less: Expenses not considered in Cost accounts (specify details)	7,549.60	16,831.45
	a) Provision for Diminution In Value of Investments	-	11.56
	b) Liquated Damages	1,737.18	16,767.08
	c) Inventory Written off	-	52.81
	d) Bad debts Written off	1,842.42	-
	e) Provision for Doubtful Debts	3,970.00	-
4	Difference in Valuation of stock between financial accounts and cost accounts	-	-
5	Other adjustments, if any	-	-
6	Profit or Loss as per Financial Accounts	(66,791.27)	(83,168.68)



3. VALUE ADDITION AND DISTRIBUTION OF EARNINGS (for the company as whole)

S.No.	Particulars	FY 2018-19 Rs. In Lakhs	FY 2017-18 Rs. In Lakhs
	Value Addition:		
1	Gross Sales (excluding sales returns)	1,53,773.28	89,355.29
2	Less: Excise duty, etc.	-	-
3	Net Sales	1,53,773.28	89,355.29
4	Add: Export Incentives	-	-
5	Add/Less: Adjustment in Finished stocks	-	-
6	Less: Cost of bought out inputs		
	(a) Cost of Materials Consumed	1,11,236.40	63,558.35
	(b) Process Materials/Chemicals	-	-
	(c) Consumption of stores and spares	1,164.39	1,007.07
	(d) Utilities (e.g. Power and fuel)	435.47	1,333.06
	(e) Others, if any	6,126.90	4,890.81
	Total Cost of bought out Inputs	1,18,963.16	70,789.29
7	Value Added	34,810.12	18,566.00
8	Add: Income from any other sources	27.09	60.58
9	Add: Exceptional, Extra Ordinary Income and Other Comprehensive Income, if any	(4.19)	9.17
10	Earnings available for Distribution	34,833.02	18,635.75
	Distribution of Earnings to:		
1	Employees as salaries and wages, retirement benefits, etc.	1,266.59	998.72
2	Shareholders as dividend	-	-
3	Company as retained funds	(45,510.45)	(61,888.07)
4	Government as taxes (specify)	-	-
5	Extra Ordinary Expenses	-	-
6	Others, If any (specify)	79,076.88	79,525.10
7	Total Distribution of Earnings	34,833.02	18,635.75

P. Srinivas



4. FINANCIAL POSITION AND RATIO ANALYSIS (for the company as whole)

S.No.	Particulars	Units	FY 2018-19 Rs.In lakhs	FY 2017-18 Rs.In lakhs
A Financial Position				
1	Share Capital	Amt in Rs. In lakhs	126519.56	126519.56
2	Reserves and Surplus	Amt in Rs. In lakhs	-218608.11	-151812.65
3	Long Term Borrowings	Amt in Rs. In lakhs	0.00	0.00
4	(a) Gross Assets	Amt in Rs. In lakhs	442160.67	442055.66
	(b) Net Assets	Amt in Rs. In lakhs	379813.67	400753.72
5	(a) Current Assets	Amt in Rs. In lakhs	88272.52	71780.92
	(b) Less: Current Liabilities	Amt in Rs. In lakhs	568934.96	506667.30
	(c) Net Current Assets	Amt in Rs. In lakhs	-480662.44	-434886.38
6	Capital Employed	Amt in Rs. In lakhs	-67490.72	-583.83
7	Net Worth	Amt in Rs. In lakhs	-92088.55	-25293.09
B Financial Performance				
1	Value Added	Amt in Rs. In lakhs	34810.12	18566.00
2	Net Revenue from Operations of Company	Amt in Rs. In lakhs	153796.18	10867.59
3	Profit before Tax (PBT)	Amt in Rs. In lakhs	-66791.27	-83168.68
C Profitability Ratios				
1	PBT to Capital Employed (B3/A6)	%	98.964%	14245.434%
2	PBT to Net worth (B3/A7)	%	72.53%	328.82%
3	PBT to Value Added (B3/B4)	%	-191.87%	-447.96%
4	PBT to Net revenue from Operations (B3/B2)	%	-43.43%	-765.29%
D Other Financial Ratios				
1	Debt-Equity Ratio	%	0.000%	0.000%
2	Current Assets to Current Liabilities	%	0.16	0.14
3	Value Added to Net Revenue from Operations	%	22.63%	170.84%
E Working Capital Ratios				
1	Raw Materials stock to Consumption	Months	0.36	0.40
2	Stores and Spares to Consumption	Months	20.78	9.32
3	Finished Goods Stock to Cost of Sales	Months	-	-
Note: 1. Previous year figures have been regrouped and reclassified wherever necessary to conform to the current year classification.				
Note: 2. S.No. E. 3 its including Work-in-progress stock.				
Note:1 Capital Employed means average of net fixed Assets (excluding effect of revaluation of fixed assets) plus non-current investments and net current assets existing at the beginning and close of the financial year.				
Note:2 Net worth is as defined under (57) of section 2 of the Companies Act,2013				

(57) "net worth" means the aggregate value of the paid-up share capital and all reserves created out of the profits and securities premium account, after deducting the aggregate value of the accumulated losses, deferred expenditure and miscellaneous expenditure not written off, as per the audited balance sheet, but does not include reserves created out of revaluation of assets, write-back of depreciation and amalgamation;



5. RELATED PARTY TRANSACTIONS (for the company as a whole)

S.No.	Name and Address of the Released Party	CIN NO	PAN NO	Nature of Transaction (Sale, Purchase etc.)	Current FY 2018-19			Amt in Rs.In Lakhs		Basis adopted to determine the Normal Price
					Quantity	Transfer Price	Amount Rs In lakhs	Normal Price		
1	GVK Technical and Consultancy Services Pvt Ltd	U74140TG2003PTC042307	AAACG1259Q	Deputation manpower	0	224.02	224.02	224.02	Un controllable market Price Method	
2	Taj GVK Hotels & Resorts Ltd	L40109AP1995PLC019349	AABCT2223L	Boarding & Lodging	0	12.99	12.99	12.99	Un controllable market Price Method	
3	Orbit travel & Tours pvt ltd	U63040TG1983PTC004176	AAACO2372G	Air Tickets	0	56.65	56.65	56.65	Un controllable market Price Method	
4	GVK Power & Infrastructure Ltd	L74999AP2005PLC059013	AAACJ5599A	Paid on our Behalf for Acturial Valuation	0	0.73	0.73	0.73	Un controllable market Price Method	

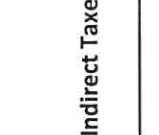
P. Srinivas


6. Reconciliation of Indirect Taxes (for the Company as a whole)

S.No.	Particulars	Current FY 2018-19			Amt in Rs. In Lakhs	
		Assessable Value Rs.in Lakhs	Excise Duty Rs.in Lakhs	Service Tax Rs.in lakhs	Cess And Others Rs. In lakhs	VAT / CST Rs.In lakhs
	Duties/Taxes Payable					
	Excise Duty					
1	Domestic	-	-	-	-	-
2	Export	-	-	-	-	-
3	Stock Transfer (Net)	-	-	-	-	-
4	Duty Free Clearance, Others etc.	-	-	-	-	-
5	Total Excise Duty (1 to 4)	-	-	-	-	-
6	Service tax	-	-	-	-	-
7	VAT, CST, Etc.,	-	-	-	-	-
8	Other State Taxes, if any	-	-	-	-	-
9	Total Duties/Taxes Payable (5 to 8)	-	-	-	-	-
	Duties/Taxes Paid					
10	Cenvat/VAT Credit Utilised - Inputs					
11	Cenvat/VAT Credit Utilised - Capital Goods					
12	Cenvat/VAT Credit Utilised - Input Services					
13	Cenvat/VAT Credit - Others					
14	Total (10 to 13)	-	-	-	-	-
15	Paid through PLA/Cash	-	-	-	-	-
16	Total Duties/Taxes Paid (14+15)	-	-	-	-	-
17	Duties/Taxes Recovered	-	-	-	-	-
18	Difference between Duties/Taxes Paid and Recovered	-	-	-	-	-
19	Interest/Penalty/Fines Paid	-	-	-	-	-

Note :- For FY 2018-19 Excise Duty and Service Tax is Not Applicable

SIGNATURE *P. Srinivas*
 NAME: Penumarthi, Srinivas
 COST AUDITOR
 MEMBERSHIP NUMBER: 24170
 SEAL
 DATE 0-00-2019 22-07-2019


S. Chandra
 SIGNATURE
 NAME: Babu Chandra
 COMPANY SECRETARY/DIRECTOR
 MEMBERSHIP NUMBER: A43673
 STAMP
 DATE 0-00-2019 22-07-2019


6. Reconciliation of Indirect Taxes (for the Company as a whole)

S.No.	Particulars	Current FY 2018-19				Amt in Rs. In Lakhs	
		Assessable Value Rs.in Lakhs	Excise Duty Rs.in Lakhs	Service Tax Rs.in lakhs	Cess And Others Rs. In lakhs	VAT / CST Rs.In lakhs	
	Duties/Taxes Payable						
	Excise Duty						
1	Domestic	-	-	-	-	-	-
2	Export	-	-	-	-	-	-
3	Stock Transfer (Net)	-	-	-	-	-	-
4	Duty Free Clearance, Others etc.	-	-	-	-	-	-
5	Total Excise Duty (1 to 4)	-	-	-	-	-	-
6	Service tax	-	-	-	-	-	-
7	VAT, CST Etc.,	-	-	-	-	-	-
8	Other State Taxes, if any	-	-	-	-	-	-
9	Total Duties/Taxes Payable (5 to 8)	-	-	-	-	-	-
	Duties/Taxes Paid						
10	Cenvat/VAT Credit Utilised - Inputs						
11	Cenvat/VAT Credit Utilised - Capital Goods						
12	Cenvat/VAT Credit Utilised - Input Services						
13	Cenvat/VAT Credit - Others						
14	Total (10 to 13)	-	-	-	-	-	-
15	Paid through PLA/Cash						
16	Total Duties/Taxes Paid (14+15)	-	-	-	-	-	-
17	Duties/Taxes Recovered	-	-	-	-	-	-
18	Difference between Duties/Taxes Paid and Recovered						
19	Interest/Penalty/Fines Paid	-	-	-	-	-	-
Note :- For FY 2018-19 Excise Duty and Service Tax is Not Applicable							

SIGNATURE *P. Chandra*
 NAME *P. Chandra*
 COMPANY SECRETARY/DIRECTOR
 MEMBERSHIP NUMBER *143673*
 SEAL
 DATE 22-07-2019

SIGNATURE *P. Srinivas*
 NAME *P. Srinivas*
 COST AUDITOR
 MEMBERSHIP NUMBER *211703*
 SEAL
 DATE 22-07-2019



Pivot Table

Asset Class	Value As on 01.04.2019
Buildings	69989,81,888.35
Computer software	17,92,403.70
Computers	98,32,700.82
Freehold land	18534,86,137.77
Furniture and fixtures	179,54,409.27
Office equipment	178,98,875.91
Plant and equipment	354109,72,491.32
Right to Use Railway Line	2393,73,492.00
Vehicles	90,89,907.96
Grand Total	445593,82,307.10

Working

Asset Class	Value As on 01.04.2019
Buildings	699.9
Computer software	0.2
Computers	1.0
Freehold land	185.3
Furniture and fixtures	1.8
Office equipment	1.8
Plant and equipment	3541.1
Right to Use Railway Line	23.9
Vehicles	0.9
Grand Total	4,455.94

Asset Class	Value As on 01.04.2019	Proportion of Actual Capital Cost	Propotinate Approved Cost
Buildings	699.9	16.54%	485.92
Computer software	0.2	0.00%	0.12
Computers	1.0	0.02%	0.68
Freehold land		0.00%	0.00
Furniture and fixtures	1.8	0.04%	1.25
Office equipment	1.8	0.04%	1.24
Plant and equipment	3526.5	83.33%	2448.37
Right to Use Railway Line		0.00%	0.00
Vehicles	0.9	0.02%	0.63
Grand Total	4,232.05		2938.22

Capital Cost Approved	3058.37	Land	96.75
Excluding Land and Railwa	2938.22	Railways	23.4
			3058.37

GVK Power (Goindwal Sahib) Ltd
Fixed asset Register as on 31.03.2020

Asset	Grouping	Asset description	Cap.date	As on 01.04.2019	Purchase 2019-2020	As on 31.03.2020	Accumul. dep.	Curr.bk.val. 31.03.2020
400000000000	Office equipment	Fax Machine for Chandigarh Office	15.03.1999	22,500.00	-	22,500.00	-21,375.00	1,125.00
400000000001	Office equipment	Office Tables (Old)	07.07.1999	16,102.00	-	16,102.00	-15,296.90	805.10
400000000002	Office equipment	Computer, Modem, Printer and UPS for Chandigarh off	26.07.1999	49,050.00	-	49,050.00	-46,597.50	2,452.50
600000000003	Furniture and fixtures	Furniture & Fixtures	17.09.1999	5,60,000.00	-	5,60,000.00	-5,32,000.00	28,000.00
210000000000	Buildings	Borewell	12.11.1999	15,68,270.00	-	15,68,270.00	-7,87,358.82	7,80,911.18
400000000003	Office equipment	Air Conditioner	24.12.1999	95,500.00	-	95,500.00	-90,725.00	4,775.00
400000000004	Office equipment	Air Conditioner	24.12.1999	95,500.00	-	95,500.00	-90,725.00	4,775.00
600000000000	Furniture and fixtures	Guest House Furniture - Chandigarh	10.01.2000	3,21,789.00	-	3,21,789.00	-3,05,699.55	16,089.45
600000000001	Furniture and fixtures	Guest House Furniture - Chandigarh	25.01.2000	67,708.00	-	67,708.00	-64,322.60	3,385.40
600000000002	Furniture and fixtures	Guest House Furniture - Chandigarh	08.02.2000	3,550.00	-	3,550.00	-3,550.00	-
400000000022	Office equipment	UPS	09.03.2000	5,450.00	-	5,450.00	-5,177.50	272.50
400000000005	Office equipment	Computors	15.03.2000	73,000.00	-	73,000.00	-69,350.00	3,650.00
300000000014	Plant and equipment	LG TV - 21FCAB	17.03.2000	12,800.00	-	12,800.00	-12,160.00	640.00
400000000007	Office equipment	63 KVA DG Set	17.03.2000	2,99,500.00	-	2,99,500.00	-2,84,525.00	14,975.00
400000000006	Office equipment	Office Tables (Old)	31.03.2000	75,900.00	-	75,900.00	-72,105.00	3,795.00
400000000008	Office equipment	Printer	03.04.2000	4,700.00	-	4,700.00	-4,465.00	235.00
400000000009	Office equipment	Air Conditioner	01.06.2000	28,800.00	-	28,800.00	-27,360.00	1,440.00
400000000010	Office equipment	Computer & Printer	01.06.2000	76,250.00	-	76,250.00	-72,437.50	3,812.50
600000000004	Furniture and fixtures	Furniture & Fixtures	05.06.2000	39,879.26	-	39,879.26	-37,885.30	1,993.96
400000000011	Office equipment	Mobile Handset	09.06.2000	8,000.00	-	8,000.00	-7,600.00	400.00
400000000012	Office equipment	Cordless Phone	12.06.2000	4,000.00	-	4,000.00	-3,800.00	200.00
400000000013	Office equipment	Computer	03.07.2000	43,300.00	-	43,300.00	-41,135.00	2,165.00
400000000023	Office equipment	UPS	18.07.2000	5,353.00	-	5,353.00	-5,085.35	267.65
600000000007	Furniture and fixtures	Filling Cabinet with folders	19.07.2000	6,912.47	-	6,912.47	-6,566.85	345.62
400000000014	Office equipment	Air Conditioner	02.08.2000	24,990.00	-	24,990.00	-23,740.50	1,249.50
400000000015	Office equipment	Air Conditioner	02.08.2000	24,990.00	-	24,990.00	-23,740.50	1,249.50
400000000019	Office equipment	EPABX System	10.08.2000	17,874.00	-	17,874.00	-16,980.30	893.70
600000000005	Furniture and fixtures	Chairs (Old)	14.08.2000	23,500.00	-	23,500.00	-22,325.00	1,175.00
400000000020	Office equipment	Telephone Instruments	19.08.2000	3,950.00	-	3,950.00	-3,752.50	197.50
400000000016	Office equipment	Voltage Stebilisers	21.08.2000	3,400.00	-	3,400.00	-3,230.00	170.00
400000000017	Office equipment	Fans	21.08.2000	8,658.00	-	8,658.00	-8,225.10	432.90
400000000018	Office equipment	Telephone Cable	24.08.2000	3,584.00	-	3,584.00	-3,404.80	179.20
600000000006	Furniture and fixtures	Chair	30.08.2000	6,932.49	-	6,932.49	-6,585.87	346.62
400000000021	Office equipment	Survey Instruments	05.09.2000	49,737.60	-	49,737.60	-47,250.72	2,486.88
600000000008	Furniture and fixtures	Furniture	09.09.2000	21,350.00	-	21,350.00	-20,282.50	1,067.50
600000000009	Furniture and fixtures	Furniture & Fixtures	07.11.2000	11,796.00	-	11,796.00	-11,206.20	589.80
400000000024	Office equipment	Computer	06.02.2007	31,000.00	-	31,000.00	-29,450.00	1,550.00
400000000025	Office equipment	Camera	26.08.2008	12,500.00	-	12,500.00	-11,875.00	625.00
500000000000	Computers	Computer for site	04.09.2008	44,640.00	-	44,640.00	-42,408.00	2,232.00
300000000001	Plant and equipment	Bajaj 25 ltrs Greser	05.09.2008	5,300.00	-	5,300.00	-5,035.00	265.00
300000000000	Plant and equipment	Crompton Greaves Fans	05.09.2008	8,050.00	-	8,050.00	-7,647.50	402.50
600000000010	Furniture and fixtures	Knockdown Bed Plain (Teak)	16.09.2008	37,430.00	-	37,430.00	-35,558.50	1,871.50
600000000011	Furniture and fixtures	Knockdown Dressing Table (Teak)	16.09.2008	12,985.00	-	12,985.00	-12,335.75	649.25
600000000012	Furniture and fixtures	Knockdown Bed Side Cupboard(Teak)	16.09.2008	10,883.00	-	10,883.00	-10,338.85	544.15
600000000013	Furniture and fixtures	Computer Table KCT 029 (Teak)	16.09.2008	2,546.00	-	2,546.00	-2,418.70	127.30
600000000014	Furniture and fixtures	Wardrobe 02 Door (Teak)	16.09.2008	15,055.00	-	15,055.00	-14,302.25	752.75
600000000015	Furniture and fixtures	Meridian Sofa Set (AL-02 Black)	16.09.2008	28,255.00	-	28,255.00	-26,842.25	1,412.75
600000000016	Furniture and fixtures	Wooden center coffee Table Milano Black	16.09.2008	3,450.00	-	3,450.00	-3,277.50	172.50
300000000002	Plant and equipment	ceiling Fan	26.09.2008	1,150.00	-	1,150.00	-1,092.50	57.50
300000000003	Plant and equipment	LG265TMG 4 Refrigerator	26.09.2008	15,300.00	-	15,300.00	-14,535.00	765.00
300000000004	Plant and equipment	15 ltrs Electric Water Heater	26.09.2008	7,300.00	-	7,300.00	-6,935.00	365.00
400000000026	Office equipment	Canon Digital Fax Machine	27.09.2008	15,500.00	-	15,500.00	-14,725.00	775.00
600000000017	Furniture and fixtures	Dining Table With 6 Chairs	30.10.2008	17,200.00	-	17,200.00	-16,340.00	860.00
300000000005	Plant and equipment	L.G. 1.5 tr Split AC, Model 18T 1 No	01.01.2009	23,700.00	-	23,700.00	-22,515.00	1,185.00
300000000006	Plant and equipment	LG 1.5 tr Window AC, Model 18G2 With Remote 2nos	01.01.2009	32,300.00	-	32,300.00	-30,685.00	1,615.00

GVK Power (Goindwal Sahib) Ltd
Fixed asset Register as on 31.03.2020

Asset	Grouping	Asset description	Cap.date	As on 01.04.2019	Purchase 2019-2020	As on 31.03.2020	Accumul. dep.	Curr.bk.val. 31.03.2020
300000000007	Plant and equipment	L.G. FLATRON 21" T.V. MODEL	01.01.2009	7,200.00	-	7,200.00	-6,840.00	360.00
300000000008	Plant and equipment	STABILISERS	01.01.2009	7,200.00	-	7,200.00	-6,840.00	360.00
400000000027	Office equipment	Lynx Auto Level	15.07.2009	21,375.00	-	21,375.00	-20,306.25	1,068.75
300000000010	Plant and equipment	Electrical Equipment (Opening Balance)	31.07.2009	25,450.00	-	25,450.00	-24,177.50	1,272.50
300000000012	Plant and equipment	Electrical Equipment (Opening Balance)	31.07.2009	61,251.00	-	61,251.00	-58,188.45	3,062.55
700000000001	Vehicles	Tata 207 DI EX Crew Cab	01.08.2009	4,93,452.00	-	4,93,452.00	-4,68,779.40	24,672.60
700000000002	Vehicles	Hero Honda	01.08.2009	41,016.00	-	41,016.00	-38,965.20	2,050.80
300000000009	Plant and equipment	DG Sets for site	08.09.2009	5,26,294.00	-	5,26,294.00	-3,34,504.88	1,91,789.12
220000000001	Buildings	Porta Cabin	22.10.2009	4,81,480.00	-	4,81,480.00	-1,34,826.56	3,46,653.44
500000000001	Computers	Scanner	27.10.2009	9,550.00	-	9,550.00	-9,072.50	477.50
500000000002	Computers	Laptop	06.11.2009	46,033.00	-	46,033.00	-43,731.35	2,301.65
600000000019	Furniture and fixtures	Chairs (Old)	15.11.2009	14,625.00	-	14,625.00	-13,893.75	731.25
300000000013	Plant and equipment	LG Refrigerator, LG TV, 15 Ltr Geyser	24.11.2009	34,500.00	-	34,500.00	-32,775.00	1,725.00
600000000021	Furniture and fixtures	Matresses & Pillows	24.11.2009	7,940.00	-	7,940.00	-7,543.00	397.00
600000000022	Furniture and fixtures	Wooden Furniture	24.11.2009	87,935.00	-	87,935.00	-83,538.25	4,396.75
300000000011	Plant and equipment	Invertor	01.12.2009	25,200.00	-	25,200.00	-15,681.13	9,518.87
220000000002	Buildings	Guard Cabins	04.12.2009	1,79,360.00	-	1,79,360.00	-49,502.00	1,29,858.00
500000000005	Computers	Laptop - E 5400	16.12.2009	48,175.00	-	48,175.00	-45,766.25	2,408.75
600000000020	Furniture and fixtures	Tables, Metal Drawers, Chairs & Filing Cabinet	17.12.2009	2,57,581.00	-	2,57,581.00	-2,44,701.95	12,879.05
500000000012	Computers	Laptop for Mr.P.Ramamohana rao	07.01.2010	72,787.00	-	72,787.00	-69,147.65	3,639.35
600000000057	Furniture and fixtures	furniture itmes (small almara)	08.01.2010	7,800.00	-	7,800.00	-7,800.00	-
500000000003	Computers	CPU	12.01.2010	16,500.00	-	16,500.00	-15,675.00	825.00
600000000018	Furniture and fixtures	Almiran with 3 doors	16.01.2010	9,500.00	-	9,500.00	-9,025.00	475.00
220000000000	Buildings	Temporary Roads	22.01.2010	2,75,000.00	-	2,75,000.00	-2,75,000.00	-
500000000004	Computers	HP DX 2480 - Computers	01.02.2010	80,750.00	-	80,750.00	-76,712.50	4,037.50
500000000006	Computers	Laptop - AL - E 5400	27.02.2010	47,951.47	-	47,951.47	-45,553.90	2,397.57
500000000007	Computers	Laptop - Vostro 1320	09.03.2010	53,799.13	-	53,799.13	-51,109.17	2,689.96
600000000075	Furniture and fixtures	Ceiling and wall fans for office	08.04.2010	8,700.00	-	8,700.00	-8,700.00	-
300000000017	Plant and equipment	Solar Lights	09.04.2010	1,50,096.00	-	1,50,096.00	-94,922.95	55,173.05
600000000023	Furniture and fixtures	Single beds for engineers hostel	10.04.2010	14,800.00	-	14,800.00	-14,800.00	-
600000000024	Furniture and fixtures	Table for security room	12.04.2010	6,000.00	-	6,000.00	-6,000.00	-
400000000088	Office equipment	Colour Television	17.04.2010	6,500.00	-	6,500.00	-6,175.00	325.00
600000000026	Furniture and fixtures	Mattress	17.04.2010	15,001.00	-	15,001.00	-15,001.00	-
600000000076	Furniture and fixtures	Refrigerator	17.04.2010	7,600.00	-	7,600.00	-7,181.43	418.57
600000000077	Furniture and fixtures	Celing Fans	17.04.2010	10,400.00	-	10,400.00	-10,400.00	-
400000000050	Office equipment	Window AC for chandigarh office	20.04.2010	26,000.00	-	26,000.00	-24,700.00	1,300.00
700000000003	Vehicles	Cycle	20.04.2010	2,830.00	-	2,830.00	-2,830.00	-
300000000015	Plant and equipment	Invertor	21.04.2010	6,999.00	-	6,999.00	-6,999.00	-
300000000016	Plant and equipment	Battery Luminous	21.04.2010	16,300.00	-	16,300.00	-15,485.00	815.00
400000000087	Office equipment	DTH for guest house (TATA Sky)	21.04.2010	3,198.00	-	3,198.00	-3,198.00	-
400000000089	Office equipment	DTH TATA Sky	21.04.2010	1,599.00	-	1,599.00	-1,599.00	-
600000000027	Furniture and fixtures	PVC Chairs	21.04.2010	4,804.00	-	4,804.00	-4,804.00	-
600000000028	Furniture and fixtures	Mattress	21.04.2010	5,000.00	-	5,000.00	-5,000.00	-
600000000079	Furniture and fixtures	Cooler	21.04.2010	20,997.00	-	20,997.00	-20,997.00	-
600000000025	Furniture and fixtures	Single beds for engineers hostel	22.04.2010	14,800.00	-	14,800.00	-14,800.00	-
600000000029	Furniture and fixtures	TV Trolley	23.04.2010	2,000.00	-	2,000.00	-2,000.00	-
400000000083	Office equipment	Video conference system	27.04.2010	2,52,530.00	-	2,52,530.00	-2,39,903.50	12,626.50
400000000080	Office equipment	LCD TV for site office	28.04.2010	57,000.00	-	57,000.00	-54,150.00	2,850.00
500000000008	Computers	Laptop for Mr.P.S.Kumar	28.04.2010	47,947.00	-	47,947.00	-45,549.65	2,397.35
600000000031	Furniture and fixtures	Furniture for 2ndguest house, Tables	29.04.2010	2,00,098.00	-	2,00,098.00	-1,88,320.25	11,777.75
300000000041	Plant and equipment	20KW Electrical Genarator set for site office	12.05.2010	2,80,234.00	-	2,80,234.00	-1,67,535.22	1,12,698.78

GVK Power (Goindwal Sahib) Ltd
Fixed asset Register as on 31.03.2020

Asset	Grouping	Asset description	Cap.date	As on 01.04.2019	Purchase 2019-2020	As on 31.03.2020	Accumul. dep.	Curr.bk.val. 31.03.2020
30000000019	Plant and equipment	Electrical items (Opening Balance)	14.05.2010	9,300.00	-	9,300.00	-8,835.00	465.00
40000000051	Office equipment	Air Conditioners	14.05.2010	1,84,800.00	-	1,84,800.00	-1,75,560.00	9,240.00
60000000072	Furniture and fixtures	Refrigrator for guest house	14.05.2010	18,800.00	-	18,800.00	-17,604.98	1,195.02
60000000074	Furniture and fixtures	Celing fans for guest house	14.05.2010	11,500.00	-	11,500.00	-11,500.00	-
60000000073	Furniture and fixtures	Celing fans for guest house	15.05.2010	3,450.00	-	3,450.00	-3,450.00	-
40000000049	Office equipment	AC Stablizer for chandigarh office	17.05.2010	2,250.00	-	2,250.00	-2,250.00	-
60000000030	Furniture and fixtures	Almara for guest house	17.05.2010	39,300.00	-	39,300.00	-39,300.00	-
40000000079	Office equipment	Projector	19.05.2010	46,500.00	-	46,500.00	-44,175.00	2,325.00
30000000018	Plant and equipment	Batery and invertor for 2nd guest house	20.05.2010	27,000.00	-	27,000.00	-25,650.00	1,350.00
50000000010	Computers	HP Desktop computers	26.05.2010	79,750.00	-	79,750.00	-75,762.50	3,987.50
60000000032	Furniture and fixtures	Office table	05.06.2010	9,600.00	-	9,600.00	-9,600.00	-
50000000009	Computers	Canon IPF 8000S Large and printer stand	08.06.2010	2,58,960.00	-	2,58,960.00	-2,46,012.00	12,948.00
50000000023	Computers	Lap top for Mr.Sujit kuar at site	19.06.2010	47,947.00	-	47,947.00	-45,549.65	2,397.35
50000000013	Computers	LCD Monitor for chandigarh office	22.06.2010	7,481.00	-	7,481.00	-7,106.95	374.05
40000000032	Office equipment	Purchase of Garmin Make GPS Model GPSMAP76csx	22.06.2010	29,120.00	-	29,120.00	-27,664.00	1,456.00
40000000053	Office equipment	Split AC	24.06.2010	42,400.00	-	42,400.00	-40,280.00	2,120.00
60000000036	Furniture and fixtures	Refrigrator	24.06.2010	18,000.00	-	18,000.00	-16,626.89	1,373.11
40000000082	Office equipment	DVD Player	24.06.2010	1,850.00	-	1,850.00	-1,850.00	-
50000000017	Computers	Computer for gurgaon office	25.06.2010	33,917.00	-	33,917.00	-32,221.15	1,695.85
40000000052	Office equipment	Window AC 1.5 tonnes	29.06.2010	51,999.00	-	51,999.00	-49,399.05	2,599.95
50000000015	Computers	Laser printer for gurgaon office	30.06.2010	23,800.00	-	23,800.00	-22,610.00	1,190.00
60000000035	Furniture and fixtures	LC Microwaven	08.07.2010	5,210.00	-	5,210.00	-4,790.17	419.83
40000000060	Office equipment	Black berry for Mr.Pradeep Lenka	08.07.2010	24,000.00	-	24,000.00	-22,800.00	1,200.00
40000000081	Office equipment	LCD TV	08.07.2010	82,620.00	-	82,620.00	-78,489.00	4,131.00
50000000011	Computers	HP Laserjet M 1213 NF for gurgaon office	09.07.2010	14,499.00	-	14,499.00	-13,774.05	724.95
50000000016	Computers	Lap top for Mr.Someswara bhoopal	13.07.2010	49,200.00	-	49,200.00	-46,740.00	2,460.00
60000000033	Furniture and fixtures	Water purifiers for 2nd guest house	13.07.2010	13,000.00	-	13,000.00	-11,932.57	1,067.43
50000000014	Computers	Laser printer	16.07.2010	5,950.00	-	5,950.00	-5,652.50	297.50
30000000020	Plant and equipment	UPS for video conference	23.07.2010	29,750.00	-	29,750.00	-17,440.42	12,309.58
40000000028	Office equipment	Flying inset killer for office	24.07.2010	5,050.00	-	5,050.00	-4,797.50	252.50
40000000061	Office equipment	Black berry for Mr.Rahul Agrawal	26.07.2010	24,000.00	-	24,000.00	-22,800.00	1,200.00
60000000034	Furniture and fixtures	Safe Cash Box	26.07.2010	3,800.00	-	3,800.00	-3,800.00	-
50000000018	Computers	Desktops for gurgaon office	27.07.2010	66,732.00	-	66,732.00	-63,395.40	3,336.60
50000000020	Computers	Desktops for gurgaon office	27.07.2010	33,366.00	-	33,366.00	-31,697.70	1,668.30
30000000022	Plant and equipment	Stablizer	28.07.2010	5,100.00	-	5,100.00	-4,845.00	255.00
60000000038	Furniture and fixtures	Partion glass for 1t guest house	01.08.2010	10,000.00	-	10,000.00	-9,121.06	878.94
40000000029	Office equipment	Canon IR 2520 copier & net work printer	03.08.2010	95,472.00	-	95,472.00	-90,698.40	4,773.60
40000000047	Office equipment	Purchase of AC's for site office	04.08.2010	73,403.00	-	73,403.00	-69,732.85	3,670.15
40000000048	Office equipment	Stablizers	04.08.2010	7,200.00	-	7,200.00	-6,840.00	360.00
60000000039	Furniture and fixtures	Tabel for video conference	04.08.2010	4,000.00	-	4,000.00	-4,000.00	-
60000000037	Furniture and fixtures	Tables for engineers hostel	05.08.2010	22,500.00	-	22,500.00	-22,500.00	-
50000000019	Computers	Laptop for Mr.Rahul Agrwal	06.08.2010	69,197.00	-	69,197.00	-65,737.15	3,459.85
30000000021	Plant and equipment	Electrical energy meeter	09.08.2010	3,999.00	-	3,999.00	-3,999.00	-
50000000025	Computers	Laser printer for gurgaon office	17.08.2010	5,950.00	-	5,950.00	-5,652.50	297.50
70000000004	Vehicles	Toyota motor car for Mr.Someswara Bhoopal	19.08.2010	20,30,186.00	-	20,30,186.00	-19,28,677.11	1,01,508.89
50000000027	Computers	Lap tops	28.08.2010	98,619.00	-	98,619.00	-93,688.05	4,930.95
50000000026	Computers	Desktop for gurgaon office	01.09.2010	33,366.00	-	33,366.00	-31,697.70	1,668.30

Annexure-2 --- FAR as at 31.03.2020

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GVK Power (Goindwal Sahib) Ltd
Fixed asset Register as on 31.03.2020

Asset	Grouping	Asset description	Cap.date	As on 01.04.2019	Purchase 2019-2020	As on 31.03.2020	Accumul. dep.	Curr.bk.val. 31.03.2020
300000000031	Plant and equipment	Stabilizers	13.09.2010	1,500.00	-	1,500.00	-1,425.00	75.00
600000000048	Furniture and fixtures	Chairs	13.09.2010	8,008.00	-	8,008.00	-8,008.00	-
600000000049	Furniture and fixtures	Fans	13.09.2010	3,900.00	-	3,900.00	-3,900.00	-
600000000050	Furniture and fixtures	Almara	13.09.2010	3,200.00	-	3,200.00	-3,200.00	-
600000000040	Furniture and fixtures	Bindig mechine for gurgaon office	16.09.2010	10,687.00	-	10,687.00	-9,599.78	1,087.22
500000000021	Computers	Desktops for site office	19.09.2010	3,33,660.00	-	3,33,660.00	-3,16,977.00	16,683.00
400000000054	Office equipment	Split AC	22.09.2010	2,17,321.00	-	2,17,321.00	-2,06,454.95	10,866.05
400000000055	Office equipment	Air Conditioners,split	22.09.2010	2,10,177.00	-	2,10,177.00	-1,99,668.15	10,508.85
600000000044	Furniture and fixtures	Tread mill for guest house	22.09.2010	43,160.00	-	43,160.00	-38,692.03	4,467.97
600000000041	Furniture and fixtures	Office Tables	24.09.2010	5,85,336.00	-	5,85,336.00	-5,24,392.94	60,943.06
600000000042	Furniture and fixtures	Office furniture (visitors chairs)	24.09.2010	99,987.00	-	99,987.00	-89,576.72	10,410.28
600000000043	Furniture and fixtures	Office furniture,confrence and staff chairs)	24.09.2010	3,05,647.00	-	3,05,647.00	-2,74,120.50	31,526.50
400000000031	Office equipment	Canon Digital Copier	28.09.2010	3,27,600.00	-	3,27,600.00	-3,11,220.00	16,380.00
600000000045	Furniture and fixtures	Office furniture (Old)	30.09.2010	8,60,687.00	-	8,60,687.00	-7,69,540.65	91,146.35
300000000029	Plant and equipment	Steblyzer for office	05.10.2010	40,246.00	-	40,246.00	-38,233.70	2,012.30
600000000047	Furniture and fixtures	Chairs	08.10.2010	25,760.00	-	25,760.00	-22,970.93	2,789.07
300000000023	Plant and equipment	gryser	09.10.2010	5,500.00	-	5,500.00	-5,225.00	275.00
500000000022	Computers	Desktop for Mr.Jagan mohan rao	14.10.2010	8,312.00	-	8,312.00	-7,896.40	415.60
500000000028	Computers	Desktops for head office	15.10.2010	1,33,463.00	-	1,33,463.00	-1,26,789.85	6,673.15
600000000046	Furniture and fixtures	Wooden boxes	20.10.2010	5,600.00	-	5,600.00	-5,600.00	-
400000000084	Office equipment	LCD for gurgaon office	22.10.2010	52,200.00	-	52,200.00	-49,590.00	2,610.00
300000000024	Plant and equipment	Electrical water heaters	10.11.2010	34,203.00	-	34,203.00	-34,203.00	-
600000000051	Furniture and fixtures	Wooden beds for enginee. Hostel	10.11.2010	17,500.00	-	17,500.00	-17,500.00	-
300000000030	Plant and equipment	UPS for server	19.11.2010	2,04,000.00	-	2,04,000.00	-1,15,711.65	88,288.35
500000000024	Computers	LCD monitors	20.11.2010	11,856.00	-	11,856.00	-11,263.20	592.80
400000000062	Office equipment	Wirless phones	24.11.2010	2,39,190.00	-	2,39,190.00	-2,27,230.50	11,959.50
800000000004	Computer software	Autodesk software	26.11.2010	4,36,740.00	-	4,36,740.00	-4,36,740.00	-
500000000035	Computers	Desktop	01.12.2010	33,366.00	-	33,366.00	-31,697.70	1,668.30
500000000029	Computers	Desktops for site office	02.12.2010	3,33,657.00	-	3,33,657.00	-3,16,974.15	16,682.85
600000000052	Furniture and fixtures	RO Water Purifier	02.12.2010	13,600.00	-	13,600.00	-11,908.13	1,691.87
300000000025	Plant and equipment	Electrical water heaters	03.12.2010	48,250.00	-	48,250.00	-48,250.00	-
600000000054	Furniture and fixtures	Almara	03.12.2010	12,400.00	-	12,400.00	-12,400.00	-
300000000026	Plant and equipment	Electrical water heaters	06.12.2010	31,100.00	-	31,100.00	-31,100.00	-
500000000033	Computers	Cannon Inktank	08.12.2010	38,772.00	-	38,772.00	-36,833.40	1,938.60
600000000055	Furniture and fixtures	Cupboards & studay tables and other mis.furniture	10.12.2010	28,400.00	-	28,400.00	-24,801.06	3,598.94
500000000030	Computers	Monitors	15.12.2010	17,784.00	-	17,784.00	-16,894.80	889.20
600000000053	Furniture and fixtures	Almara	21.12.2010	9,550.00	-	9,550.00	-9,550.00	-
500000000031	Computers	Desktop	23.12.2010	33,366.00	-	33,366.00	-31,697.70	1,668.30
500000000036	Computers	Dell Desktop	23.12.2010	33,366.00	-	33,366.00	-31,697.70	1,668.30
400000000086	Office equipment	Television	24.12.2010	5,500.00	-	5,500.00	-5,225.00	275.00
600000000056	Furniture and fixtures	Tables	24.12.2010	7,500.00	-	7,500.00	-7,500.00	-
300000000027	Plant and equipment	Infrared Thermameeter for Med.Dep	01.01.2011	14,798.00	-	14,798.00	-14,058.10	739.90
600000000058	Furniture and fixtures	beds	03.01.2011	3,500.00	-	3,500.00	-3,500.00	-
600000000059	Furniture and fixtures	Table	03.01.2011	3,000.00	-	3,000.00	-3,000.00	-
400000000085	Office equipment	Television	07.01.2011	11,000.00	-	11,000.00	-10,450.00	550.00
500000000032	Computers	Desktop	12.01.2011	33,366.00	-	33,366.00	-31,697.70	1,668.30
600000000060	Furniture and fixtures	Steel rack	15.01.2011	10,522.00	-	10,522.00	-9,079.48	1,442.52
600000000061	Furniture and fixtures	Beds	17.01.2011	7,000.00	-	7,000.00	-7,000.00	-
600000000062	Furniture and fixtures	Dinning Table	19.01.2011	15,500.00	-	15,500.00	-13,357.27	2,142.73
500000000034	Computers	Desktop	19.01.2011	33,366.00	-	33,366.00	-31,697.70	1,668.30
600000000063	Furniture and fixtures	Cupboard	20.01.2011	17,000.00	-	17,000.00	-14,645.05	2,354.95

Annexure-2 --- FAR as at 31.03.2020

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GVK Power (Goindwal Sahib) Ltd
Fixed asset Register as on 31.03.2020

Asset	Grouping	Asset description	Cap.date	As on 01.04.2019	Purchase 2019-2020	As on 31.03.2020	Accumul. dep.	Curr.bk.val. 31.03.2020
600000000064	Furniture and fixtures	Centre Table	27.01.2011	5,200.00	-	5,200.00	-4,469.26	730.74
600000000065	Furniture and fixtures	Wooden Frame	27.01.2011	450.00	-	450.00	-450.00	-
600000000066	Furniture and fixtures	Bench	28.01.2011	1,800.00	-	1,800.00	-1,800.00	-
700000000005	Vehicles	I-10 car (Inc Regn.Charges)	28.01.2011	6,67,204.00	-	6,67,204.00	-6,33,843.80	33,360.20
400000000030	Office equipment	Biometric Attendance Mechine	28.01.2011	26,415.00	-	26,415.00	-25,094.25	1,320.75
210000000001	Buildings	Insulated Bunk House	01.02.2011	2,51,700.00	-	2,51,700.00	-80,024.98	1,71,675.02
400000000063	Office equipment	Nokia Phone for MD's Office	01.02.2011	46,000.00	-	46,000.00	-43,700.00	2,300.00
400000000064	Office equipment	Ipads for MD's Office	02.02.2011	69,800.00	-	69,800.00	-66,310.00	3,490.00
400000000066	Office equipment	Ipads for Mr.Someswara Bhoopal	02.02.2011	69,800.00	-	69,800.00	-66,310.00	3,490.00
600000000067	Furniture and fixtures	Cupboard	08.02.2011	17,000.00	-	17,000.00	-14,552.94	2,447.06
600000000068	Furniture and fixtures	Dinning Table	12.02.2011	15,500.00	-	15,500.00	-13,251.25	2,248.75
600000000069	Furniture and fixtures	Cupboard	13.02.2011	10,400.00	-	10,400.00	-8,888.21	1,511.79
210000000002	Buildings	Insulated Bunk House	15.02.2011	2,51,700.00	-	2,51,700.00	-79,603.42	1,72,096.58
600000000071	Furniture and fixtures	Office Furniture	17.02.2011	87,588.00	-	87,588.00	-74,756.40	12,831.60
600000000070	Furniture and fixtures	Chairs	22.02.2011	3,200.00	-	3,200.00	-3,200.00	-
600000000078	Furniture and fixtures	Water Purifier	22.02.2011	13,600.00	-	13,600.00	-11,588.34	2,011.66
300000000028	Plant and equipment	Energy Meeter	09.03.2011	2,687.00	-	2,687.00	-2,687.00	-
700000000006	Vehicles	Tractor	10.03.2011	5,98,470.00	-	5,98,470.00	-5,68,546.50	29,923.50
400000000065	Office equipment	Telephone Extentions	11.03.2011	12,000.00	-	12,000.00	-11,400.00	600.00
300000000033	Plant and equipment	LED Lights for office	01.04.2011	3,08,978.00	-	3,08,978.00	-2,93,529.10	15,448.90
300000000032	Plant and equipment	Water heaters for corporate office	01.04.2011	16,600.00	-	16,600.00	-15,770.00	830.00
500000000037	Computers	Laptop for Mr.Vikarm	02.04.2011	51,440.00	-	51,440.00	-48,868.00	2,572.00
600000000081	Furniture and fixtures	key box	14.04.2011	1,600.00	-	1,600.00	-1,600.00	-
600000000080	Furniture and fixtures	Cupboard	15.04.2011	6,000.00	-	6,000.00	-5,026.55	973.45
600000000082	Furniture and fixtures	Chairs for gurgaon office	19.04.2011	8,07,500.00	-	8,07,500.00	-6,74,996.68	1,32,503.32
300000000034	Plant and equipment	UPS	20.04.2011	10,000.00	-	10,000.00	-10,000.00	-
500000000038	Computers	Desktops	22.04.2011	1,49,760.00	-	1,49,760.00	-1,42,272.00	7,488.00
500000000039	Computers	Printers	22.04.2011	63,648.00	-	63,648.00	-60,465.60	3,182.40
400000000067	Office equipment	Telephone instuments for gurgaon office	28.04.2011	15,080.00	-	15,080.00	-14,326.00	754.00
600000000083	Furniture and fixtures	Angale Racks	29.04.2011	13,426.00	-	13,426.00	-13,426.00	-
600000000085	Furniture and fixtures	Almara	03.05.2011	15,600.00	-	15,600.00	-15,600.00	-
600000000084	Furniture and fixtures	Mattress	10.05.2011	29,400.00	-	29,400.00	-29,400.00	-
500000000040	Computers	Desktops	11.05.2011	1,98,540.00	-	1,98,540.00	-1,88,613.00	9,927.00
500000000044	Computers	Laptop	20.05.2011	51,440.00	-	51,440.00	-48,868.00	2,572.00
400000000033	Office equipment	Water Cooler	23.05.2011	34,100.00	-	34,100.00	-32,395.00	1,705.00
300000000035	Plant and equipment	Inverters	24.05.2011	52,650.00	-	52,650.00	-28,326.95	24,323.05
600000000086	Furniture and fixtures	Cupboard	24.05.2011	17,000.00	-	17,000.00	-14,058.13	2,941.87
400000000034	Office equipment	TV Trolley	26.05.2011	2,400.00	-	2,400.00	-2,400.00	-
400000000035	Office equipment	Refrigrator	26.05.2011	8,200.00	-	8,200.00	-7,790.00	410.00
400000000036	Office equipment	Grinder	26.05.2011	2,200.00	-	2,200.00	-2,200.00	-
400000000037	Office equipment	Water Purifier	26.05.2011	14,200.00	-	14,200.00	-13,490.00	710.00
400000000090	Office equipment	Television	26.05.2011	11,180.00	-	11,180.00	-10,621.00	559.00
400000000091	Office equipment	Television	26.05.2011	6,800.00	-	6,800.00	-6,460.00	340.00
500000000042	Computers	Dell Desktop	26.05.2011	33,090.00	-	33,090.00	-31,435.50	1,654.50
600000000068	Furniture and fixtures	Chairs	27.05.2011	4,32,163.19	-	4,32,163.19	-3,11,614.89	1,20,548.30
400000000056	Office equipment	Air Conditoners	30.05.2011	3,08,880.00	-	3,08,880.00	-2,93,436.00	15,444.00
400000000057	Office equipment	Air Conditoners	01.06.2011	3,65,040.00	-	3,65,040.00	-3,46,788.00	18,252.00
400000000068	Office equipment	Black berry for Mr.A.K.Mishra	08.06.2011	19,000.00	-	19,000.00	-18,050.00	950.00
500000000041	Computers	Canon Laser Jet Printer	15.06.2011	45,990.00	-	45,990.00	-43,690.50	2,299.50
700000000007	Vehicles	Bike	18.06.2011	44,913.00	-	44,913.00	-37,498.55	7,414.45
400000000058	Office equipment	Air Conditoners	02.07.2011	84,240.00	-	84,240.00	-80,028.00	4,212.00
600000000088	Furniture and fixtures	Work station with four seating	04.07.2011	25,000.00	-	25,000.00	-20,392.83	4,607.17
600000000095	Furniture and fixtures	Tables	04.07.2011	2,37,500.00	-	2,37,500.00	-1,93,731.83	43,768.17
600000000090	Furniture and fixtures	Artifacts	12.07.2011	7,06,000.00	-	7,06,000.00	-5,74,356.04	1,31,643.96

Annexure-2 --- FAR as at 31.03.2020

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GVK Power (Goindwal Sahib) Ltd
Fixed asset Register as on 31.03.2020

Asset	Grouping	Asset description	Cap.date	As on 01.04.2019	Purchase 2019-2020	As on 31.03.2020	Accumul. dep.	Curr.bk.val. 31.03.2020
60000000091	Furniture and fixtures	Artifacts	13.07.2011	3,24,100.00	-	3,24,100.00	-2,63,578.74	60,521.26
60000000094	Furniture and fixtures	Drawing file Cabinet	14.07.2011	34,040.00	-	34,040.00	-27,674.24	6,365.76
21000000003	Buildings	Pre Fabricated Bunk House	15.07.2011	1,90,305.00	-	1,90,305.00	-53,204.91	1,37,100.09
40000000038	Office equipment	Sony digital photo frame	20.07.2011	5,810.00	-	5,810.00	-5,519.50	290.50
60000000092	Furniture and fixtures	Wooden bench	20.07.2011	1,200.00	-	1,200.00	-1,200.00	-
40000000069	Office equipment	Black berry for MD	20.07.2011	23,000.00	-	23,000.00	-21,850.00	1,150.00
80000000005	Computer software	MY HR Software	21.07.2011	93,755.00	-	93,755.00	-89,067.25	4,687.75
40000000092	Office equipment	Apple TV	25.07.2011	7,900.00	-	7,900.00	-7,505.00	395.00
50000000045	Computers	Dell Desktop	27.07.2011	33,090.00	-	33,090.00	-31,435.50	1,654.50
60000000089	Furniture and fixtures	Visitors Chairs	29.07.2011	70,980.00	-	70,980.00	-57,417.42	13,562.58
60000000093	Furniture and fixtures	Work station with four seating	31.07.2011	50,000.00	-	50,000.00	-40,419.14	9,580.86
50000000047	Computers	Lap Top for Mr.Tyagi	03.08.2011	51,440.00	-	51,440.00	-48,868.00	2,572.00
50000000043	Computers	Printer cum scanner	04.08.2011	9,500.00	-	9,500.00	-9,025.00	475.00
30000000036	Plant and equipment	Steblizers	18.08.2011	27,450.00	-	27,450.00	-27,450.00	-
60000000098	Furniture and fixtures	PVC Chairs	18.08.2011	4,000.00	-	4,000.00	-4,000.00	-
60000000096	Furniture and fixtures	Chairs	20.08.2011	69,615.00	-	69,615.00	-55,899.96	13,715.04
60000000097	Furniture and fixtures	Steel Racks	23.08.2011	70,288.00	-	70,288.00	-56,383.66	13,904.34
40000000070	Office equipment	Blach Berry Accessories for MD	23.08.2011	9,088.00	-	9,088.00	-8,633.60	454.40
30000000037	Plant and equipment	Microwoven	26.08.2011	5,800.00	-	5,800.00	-5,510.00	290.00
30000000038	Plant and equipment	Electrical siran for office	31.08.2011	28,700.00	-	28,700.00	-27,265.00	1,435.00
40000000039	Office equipment	Office Tables	01.09.2011	4,000.00	-	4,000.00	-4,000.00	-
60000000099	Furniture and fixtures	Visitors Chairs	02.09.2011	10,238.00	-	10,238.00	-10,238.00	-
40000000040	Office equipment	Wall Fans	03.09.2011	3,000.00	-	3,000.00	-3,000.00	-
50000000046	Computers	Apple Mac Book	05.09.2011	1,23,780.00	-	1,23,780.00	-1,17,591.00	6,189.00
80000000000	Computer software	Primaveera P6 Enterprises	07.09.2011	2,01,775.00	-	2,01,775.00	-1,91,686.25	10,088.75
80000000001	Computer software	Primaveera P6 Upgrades for 1 year	07.09.2011	30,266.00	-	30,266.00	-30,266.00	-
80000000002	Computer software	Primaveera P6 Support & Service for 1 year	07.09.2011	13,512.00	-	13,512.00	-13,512.00	-
40000000041	Office equipment	Lawn Mower	08.09.2011	18,990.00	-	18,990.00	-18,040.50	949.50
80000000003	Computer software	Autodesk Software	12.09.2011	4,46,160.00	-	4,46,160.00	-4,23,852.00	22,308.00
40000000042	Office equipment	Water Purifier	14.09.2011	37,500.00	-	37,500.00	-35,625.00	1,875.00
40000000043	Office equipment	Stebilizer	15.09.2011	2,400.00	-	2,400.00	-2,400.00	-
40000000044	Office equipment	Refrigrator	19.09.2011	7,200.00	-	7,200.00	-6,840.00	360.00
40000000093	Office equipment	AV Equipment	19.09.2011	26,95,624.00	-	26,95,624.00	-25,60,842.80	1,34,781.20
600000000101	Furniture and fixtures	Executive Chairs	28.09.2011	30,030.00	-	30,030.00	-30,030.00	-
600000000100	Furniture and fixtures	Coat Hanger Stand	29.09.2011	7,425.00	-	7,425.00	-5,882.68	1,542.32
50000000048	Computers	Desktops	30.09.2011	2,31,630.00	-	2,31,630.00	-2,20,048.50	11,581.50
70000000008	Vehicles	Chassis TATA LPT	30.09.2011	11,22,941.00	-	11,22,941.00	-10,66,793.95	56,147.05
40000000071	Office equipment	Ipad	10.10.2011	41,900.00	-	41,900.00	-39,805.00	2,095.00
50000000050	Computers	Laptop	10.10.2011	51,440.00	-	51,440.00	-48,868.00	2,572.00
40000000072	Office equipment	Blackberry Telephone	13.10.2011	19,000.00	-	19,000.00	-18,050.00	950.00
40000000094	Office equipment	Samsund LED	31.10.2011	1,86,656.00	-	1,86,656.00	-1,77,323.20	9,332.80
600000000102	Furniture and fixtures	Wooden Beds	05.11.2011	40,000.00	-	40,000.00	-31,298.97	8,701.03
600000000103	Furniture and fixtures	Mattress	05.11.2011	14,750.00	-	14,750.00	-14,750.00	-
600000000110	Furniture and fixtures	PVC Chairs	08.11.2011	4,000.00	-	4,000.00	-4,000.00	-
40000000095	Office equipment	Soney Voice Recorder	08.11.2011	12,750.00	-	12,750.00	-12,112.50	637.50
40000000073	Office equipment	Mac Books for Ipad	10.11.2011	4,000.00	-	4,000.00	-4,000.00	-
50000000049	Computers	Lap Top for Mr.Srinivasa Reddy	10.11.2011	38,000.00	-	38,000.00	-36,100.00	1,900.00
600000000104	Furniture and fixtures	Wooden Beds	17.11.2011	32,000.00	-	32,000.00	-24,938.01	7,061.99
600000000105	Furniture and fixtures	Mattress	17.11.2011	11,800.00	-	11,800.00	-11,800.00	-
30000000039	Plant and equipment	550KVA Copper wound Transformor	20.11.2011	3,83,000.00	-	3,83,000.00	-1,95,336.25	1,87,663.75
30000000040	Plant and equipment	Heater Blower	22.11.2011	34,922.00	-	34,922.00	-17,800.00	17,122.00
40000000074	Office equipment	Blackberry Telephone	24.11.2011	20,000.00	-	20,000.00	-19,000.00	1,000.00
600000000108	Furniture and fixtures	wooden beds	27.11.2011	48,000.00	-	48,000.00	-37,280.91	10,719.09
600000000111	Furniture and fixtures	Steel Almaraha	27.11.2011	22,500.00	-	22,500.00	-22,500.00	-
600000000107	Furniture and fixtures	Work station	28.11.2011	81,000.00	-	81,000.00	-62,890.29	18,109.71

Annexure-2 --- FAR as at 31.03.2020

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GVK Power (Goindwal Sahib) Ltd
Fixed asset Register as on 31.03.2020

Asset	Grouping	Asset description	Cap.date	As on 01.04.2019	Purchase 2019-2020	As on 31.03.2020	Accumul. dep.	Curr.bk.val. 31.03.2020
60000000109	Furniture and fixtures	wooden stand	28.11.2011	1,200.00	-	1,200.00	-1,200.00	-
30000000042	Plant and equipment	85/25 Double Girder EOT Crane	30.11.2011	128,88,166.00	-	128,88,166.00	-65,53,256.44	63,34,909.56
30000000044	Plant and equipment	Energy Metet for EOT Crane	30.11.2011	27,253.00	-	27,253.00	-13,857.37	13,395.63
40000000096	Office equipment	Video Surveillance System	03.12.2011	11,08,245.00	-	11,08,245.00	-10,52,832.75	55,412.25
60000000106	Furniture and fixtures	Sofa Set	05.12.2011	2,97,700.00	-	2,97,700.00	-2,30,595.01	67,104.99
40000000097	Office equipment	Television	07.12.2011	11,000.00	-	11,000.00	-10,450.00	550.00
60000000115	Furniture and fixtures	Almara	07.12.2011	13,500.00	-	13,500.00	-10,449.87	3,050.13
60000000112	Furniture and fixtures	Mattress	09.12.2011	40,200.00	-	40,200.00	-31,096.37	9,103.63
60000000116	Furniture and fixtures	Trolley	12.12.2011	2,000.00	-	2,000.00	-2,000.00	-
50000000051	Computers	Dell Desktop	12.12.2011	33,090.00	-	33,090.00	-31,435.50	1,654.50
60000000113	Furniture and fixtures	Box Bed	21.12.2011	8,000.00	-	8,000.00	-6,163.25	1,836.75
60000000114	Furniture and fixtures	Side Table	21.12.2011	7,800.00	-	7,800.00	-6,009.17	1,790.83
70000000009	Vehicles	Fire Tender	24.12.2011	16,05,960.00	-	16,05,960.00	-15,25,662.00	80,298.00
40000000045	Office equipment	Fire Extinguisher	26.12.2011	67,183.00	-	67,183.00	-63,823.85	3,359.15
50000000052	Computers	Dell Desktop	30.12.2011	33,642.00	-	33,642.00	-31,959.90	1,682.10
40000000099	Office equipment	Television	04.01.2012	12,000.00	-	12,000.00	-11,400.00	600.00
60000000118	Furniture and fixtures	Wooden Box Beds	05.01.2012	24,000.00	-	24,000.00	-18,395.99	5,604.01
60000000117	Furniture and fixtures	Steel Almirah	12.01.2012	14,000.00	-	14,000.00	-10,705.55	3,294.45
40000000075	Office equipment	Apple I Phone	23.01.2012	57,500.00	-	57,500.00	-54,625.00	2,875.00
40000000076	Office equipment	Blackberry Head Phone	23.01.2012	6,900.00	-	6,900.00	-6,555.00	345.00
40000000098	Office equipment	Video Surveillance System	27.01.2012	91,755.00	-	91,755.00	-87,167.25	4,587.75
60000000120	Furniture and fixtures	Modular Furniture & Chairs	01.02.2012	13,07,704.00	-	13,07,704.00	-8,63,724.57	4,43,979.43
60000000119	Furniture and fixtures	Cupboard	03.02.2012	19,920.00	-	19,920.00	-15,119.00	4,801.00
60000000121	Furniture and fixtures	Revolving Chairs	14.02.2012	61,060.00	-	61,060.00	-61,060.00	-
40000000059	Office equipment	Split AC	27.02.2012	27,600.00	-	27,600.00	-26,220.00	1,380.00
50000000053	Computers	Dell Desktop	28.02.2012	34,000.00	-	34,000.00	-32,300.00	1,700.00
40000000077	Office equipment	Beetel M-77 Telephones	01.03.2012	33,250.00	-	33,250.00	-33,250.00	-
40000000046	Office equipment	Xerox Machine	02.03.2012	30,164.00	-	30,164.00	-28,655.80	1,508.20
60000000122	Furniture and fixtures	Work Stations with 4 Seater	03.03.2012	81,000.00	-	81,000.00	-60,873.29	20,126.71
60000000123	Furniture and fixtures	Steel Almirah	09.03.2012	9,000.00	-	9,000.00	-9,000.00	-
30000000043	Plant and equipment	Trolley for Horticulture	10.03.2012	1,42,000.00	-	1,42,000.00	-69,994.51	72,005.49
60000000125	Furniture and fixtures	Cupboard	12.03.2012	19,920.00	-	19,920.00	-14,924.38	4,995.62
40000000078	Office equipment	Blackberry 9360 Curve	15.03.2012	19,200.00	-	19,200.00	-18,240.00	960.00
50000000054	Computers	Lap Top	16.03.2012	47,500.00	-	47,500.00	-45,125.00	2,375.00
60000000124	Furniture and fixtures	PVC Dining Table	20.03.2012	1,500.00	-	1,500.00	-1,500.00	-
10000000001	Freehold land	Land and Land Development - Power Project	31.03.2012	17994,22,220.59	-	17994,22,220.59	-	17994,22,220.59
40000000100	Office equipment	LED TV	31.03.2012	82,500.00	-	82,500.00	-78,375.00	4,125.00
40000000101	Office equipment	AV Cables & Connectors	31.03.2012	84,603.00	-	84,603.00	-80,372.85	4,230.15
30000000042	Plant and equipment	Erection Charges (85/25 Double Girder EOT Crane)	01.04.2012	9,21,352.00	-	9,21,352.00	-4,53,770.21	4,67,581.79
50000000076	Computers	Canon D520 Laser MFP Printer	01.04.2012	13,600.00	-	13,600.00	-12,920.00	680.00
60000000131	Furniture and fixtures	Fulkrum Low Back Chairs	01.04.2012	12,022.50	-	12,022.50	-8,946.54	3,075.96
60000000132	Furniture and fixtures	Fulkrum Low Back Chairs	01.04.2012	12,022.50	-	12,022.50	-8,946.54	3,075.96
60000000133	Furniture and fixtures	Fulkrum Low Back Chairs	01.04.2012	12,022.50	-	12,022.50	-8,946.54	3,075.96
60000000134	Furniture and fixtures	Fulkrum Low Back Chairs	01.04.2012	12,022.50	-	12,022.50	-8,946.54	3,075.96
60000000135	Furniture and fixtures	Fulkrum Low Back Chairs	01.04.2012	12,022.50	-	12,022.50	-8,946.54	3,075.96
60000000136	Furniture and fixtures	Fulkrum Low Back Chairs	01.04.2012	12,022.50	-	12,022.50	-8,946.54	3,075.96
60000000137	Furniture and fixtures	Fulkrum Low Back Chairs	01.04.2012	12,022.50	-	12,022.50	-8,946.54	3,075.96
60000000138	Furniture and fixtures	Fulkrum Low Back Chairs	01.04.2012	12,022.50	-	12,022.50	-8,946.54	3,075.96
60000000139	Furniture and fixtures	Fulkrum Low Back Chairs	01.04.2012	12,022.50	-	12,022.50	-8,946.54	3,075.96
60000000140	Furniture and fixtures	Fulkrum Low Back Chairs	01.04.2012	12,022.50	-	12,022.50	-8,946.54	3,075.96

GVK Power (Goindwal Sahib) Ltd
Fixed asset Register as on 31.03.2020

Asset	Grouping	Asset description	Cap.date	As on 01.04.2019	Purchase 2019-2020	As on 31.03.2020	Accumul. dep.	Curr.bk.val. 31.03.2020
60000000141	Furniture and fixtures	Tables	01.04.2012	10,534.00	-	10,534.00	-7,838.87	2,695.13
60000000142	Furniture and fixtures	Tables	01.04.2012	10,534.00	-	10,534.00	-7,838.87	2,695.13
60000000143	Furniture and fixtures	Tables	01.04.2012	10,534.00	-	10,534.00	-7,838.87	2,695.13
60000000144	Furniture and fixtures	Tables	01.04.2012	10,534.00	-	10,534.00	-7,838.87	2,695.13
60000000145	Furniture and fixtures	Tables	01.04.2012	10,534.00	-	10,534.00	-7,838.87	2,695.13
60000000130	Furniture and fixtures	Office Work Station	12.04.2012	81,000.00	-	81,000.00	-60,049.36	20,950.64
40000000260	Office equipment	I POD	24.04.2012	8,900.00	-	8,900.00	-8,455.00	445.00
50000000055	Computers	Sony Laptop for Mr.P.K.Gopal	03.05.2012	69,000.00	-	69,000.00	-65,550.00	3,450.00
50000000056	Computers	I PAD for MD's Office	07.05.2012	37,700.00	-	37,700.00	-35,815.00	1,885.00
40000000102	Office equipment	Digital Camera	14.05.2012	6,200.00	-	6,200.00	-5,890.00	310.00
50000000057	Computers	Desktop Computers	14.06.2012	36,456.00	-	36,456.00	-34,633.20	1,822.80
50000000058	Computers	Desktop Computers	14.06.2012	36,456.00	-	36,456.00	-34,633.20	1,822.80
50000000059	Computers	Desktop Computers	14.06.2012	36,456.00	-	36,456.00	-34,633.20	1,822.80
50000000060	Computers	Desktop Computers	14.06.2012	36,456.00	-	36,456.00	-34,633.20	1,822.80
50000000061	Computers	Desktop Computers	14.06.2012	36,456.00	-	36,456.00	-34,633.20	1,822.80
50000000062	Computers	Desktop Computers	14.06.2012	36,456.00	-	36,456.00	-34,633.20	1,822.80
50000000063	Computers	Desktop Computers	14.06.2012	36,456.00	-	36,456.00	-34,633.20	1,822.80
50000000064	Computers	Desktop Computers	14.06.2012	36,456.00	-	36,456.00	-34,633.20	1,822.80
50000000065	Computers	Desktop Computers	14.06.2012	36,456.00	-	36,456.00	-34,633.20	1,822.80
50000000066	Computers	Desktop Computers	14.06.2012	36,456.00	-	36,456.00	-34,633.20	1,822.80
50000000067	Computers	Desktop Computers	14.06.2012	36,456.00	-	36,456.00	-34,633.20	1,822.80
50000000068	Computers	Desktop Computers	14.06.2012	36,456.00	-	36,456.00	-34,633.20	1,822.80
50000000069	Computers	Desktop Computers	14.06.2012	36,456.00	-	36,456.00	-34,633.20	1,822.80
50000000070	Computers	Desktop Computers	14.06.2012	36,456.00	-	36,456.00	-34,633.20	1,822.80
50000000071	Computers	Desktop Computers	14.06.2012	36,456.00	-	36,456.00	-34,633.20	1,822.80
50000000072	Computers	Desktop Computers	14.06.2012	36,456.00	-	36,456.00	-34,633.20	1,822.80
50000000073	Computers	Desktop Computers	14.06.2012	36,456.00	-	36,456.00	-34,633.20	1,822.80
50000000074	Computers	Desktop Computers	14.06.2012	36,456.00	-	36,456.00	-34,633.20	1,822.80
50000000075	Computers	Desktop Computers	14.06.2012	36,456.00	-	36,456.00	-34,633.20	1,822.80
40000000261	Office equipment	Water Purifier (RO 50 LPH)	30.06.2012	37,500.00	-	37,500.00	-35,625.00	1,875.00
60000000147	Furniture and fixtures	Kurlon Matressess	02.07.2012	2,90,162.00	-	2,90,162.00	-2,90,162.00	-
40000000104	Office equipment	1.5 Ton Split AC	04.07.2012	26,768.00	-	26,768.00	-25,429.60	1,338.40
40000000125	Office equipment	1.5 Ton Split AC	04.07.2012	26,766.44	-	26,766.44	-25,428.12	1,338.32
40000000126	Office equipment	1.5 Ton Split AC	04.07.2012	26,766.44	-	26,766.44	-25,428.12	1,338.32
40000000127	Office equipment	1.5 Ton Split AC	04.07.2012	26,766.44	-	26,766.44	-25,428.12	1,338.32
40000000128	Office equipment	1.5 Ton Split AC	04.07.2012	26,766.44	-	26,766.44	-25,428.12	1,338.32
40000000129	Office equipment	1.5 Ton Split AC	04.07.2012	26,766.44	-	26,766.44	-25,428.12	1,338.32
40000000130	Office equipment	1.5 Ton Split AC	04.07.2012	26,766.44	-	26,766.44	-25,428.12	1,338.32
40000000131	Office equipment	1.5 Ton Split AC	04.07.2012	26,766.44	-	26,766.44	-25,428.12	1,338.32
40000000132	Office equipment	1.5 Ton Split AC	04.07.2012	26,766.44	-	26,766.44	-25,428.12	1,338.32
40000000133	Office equipment	1.5 Ton Split AC	04.07.2012	26,766.44	-	26,766.44	-25,428.12	1,338.32
40000000232	Office equipment	32" LCD TV	04.07.2012	20,200.92	-	20,200.92	-19,190.87	1,010.05
40000000233	Office equipment	32" LCD TV	04.07.2012	20,200.92	-	20,200.92	-19,190.87	1,010.05
40000000234	Office equipment	32" LCD TV	04.07.2012	20,200.92	-	20,200.92	-19,190.87	1,010.05
40000000235	Office equipment	32" LCD TV	04.07.2012	20,200.92	-	20,200.92	-19,190.87	1,010.05
40000000236	Office equipment	32" LCD TV	04.07.2012	20,200.92	-	20,200.92	-19,190.87	1,010.05
40000000237	Office equipment	32" LCD TV	04.07.2012	20,200.92	-	20,200.92	-19,190.87	1,010.05
40000000238	Office equipment	32" LCD TV	04.07.2012	20,200.92	-	20,200.92	-19,190.87	1,010.05
40000000239	Office equipment	32" LCD TV	04.07.2012	20,200.92	-	20,200.92	-19,190.87	1,010.05
40000000240	Office equipment	32" LCD TV	04.07.2012	20,200.92	-	20,200.92	-19,190.87	1,010.05
40000000241	Office equipment	32" LCD TV	04.07.2012	20,200.92	-	20,200.92	-19,190.87	1,010.05
40000000242	Office equipment	32" LCD TV	04.07.2012	20,200.92	-	20,200.92	-19,190.87	1,010.05
40000000243	Office equipment	32" LCD TV	04.07.2012	20,200.92	-	20,200.92	-19,190.87	1,010.05
40000000244	Office equipment	32" LCD TV	04.07.2012	20,200.92	-	20,200.92	-19,190.87	1,010.05
40000000245	Office equipment	32" LCD TV	04.07.2012	20,200.92	-	20,200.92	-19,190.87	1,010.05
40000000246	Office equipment	32" LCD TV	04.07.2012	20,200.92	-	20,200.92	-19,190.87	1,010.05
40000000247	Office equipment	32" LCD TV	04.07.2012	20,200.92	-	20,200.92	-19,190.87	1,010.05
40000000248	Office equipment	32" LCD TV	04.07.2012	20,200.92	-	20,200.92	-19,190.87	1,010.05
40000000249	Office equipment	32" LCD TV	04.07.2012	20,200.92	-	20,200.92	-19,190.87	1,010.05
40000000250	Office equipment	32" LCD TV	04.07.2012	20,200.92	-	20,200.92	-19,190.87	1,010.05
40000000251	Office equipment	32" LCD TV	04.07.2012	20,200.92	-	20,200.92	-19,190.87	1,010.05
40000000252	Office equipment	32" LCD TV	04.07.2012	20,200.92	-	20,200.92	-19,190.87	1,010.05
40000000253	Office equipment	32" LCD TV	04.07.2012	20,200.92	-	20,200.92	-19,190.87	1,010.05
40000000254	Office equipment	32" LCD TV	04.07.2012	20,200.92	-	20,200.92	-19,190.87	1,010.05
40000000255	Office equipment	32" LCD TV	04.07.2012	20,200.92	-	20,200.92	-19,190.87	1,010.05
50000000086	Computers	Dell Laptop E4130 - Battery	08.07.2012	-	-	-	-	-
40000000226	Office equipment	Panasonic Cordless Phones	09.07.2012	23,940.00	-	23,940.00	-23,940.00	-
40000000103	Office equipment	Radiography Film Viewer	10.07.2012	9,138.00	-	9,138.00	-8,681.10	456.90
60000000161	Furniture and fixtures	Office Tables	10.07.2012	56,000.00	-	56,000.00	-40,260.36	15,739.64
40000000105	Office equipment	1.5 Ton Split AC	11.07.2012	26,768.00	-	26,768.00	-25,429.60	1,338.40
40000000256	Office equipment	42" LCD TV	11.07.2012	34,650.00	-	34,650.00	-32,917.50	1,732.50
40000000257	Office equipment	42" LCD TV	11.07.2012	34,650.00	-	34,650.00	-32,917.50	1,732.50
40000000258	Office equipment	Music System	11.07.2012	5,620.00	-	5,620.00	-5,339.00	281.00

Annexure-2 --- FAR as at 31.03.2020

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GVK Power (Goindwal Sahib) Ltd
Fixed asset Register as on 31.03.2020

Asset	Grouping	Asset description	Cap.date	As on 01.04.2019	Purchase 2019-2020	As on 31.03.2020	Accumul. dep.	Curr.bk.val. 31.03.2020
40000000259	Office equipment	Music System	11.07.2012	5,620.00	-	5,620.00	-5,339.00	281.00
40000000262	Office equipment	Washing Machine	11.07.2012	18,600.00	-	18,600.00	-17,670.00	930.00
40000000106	Office equipment	1.5 Ton Split AC	12.07.2012	26,766.53	-	26,766.53	-25,428.20	1,338.33
40000000107	Office equipment	1.5 Ton Split AC	12.07.2012	26,766.53	-	26,766.53	-25,428.20	1,338.33
40000000108	Office equipment	1.5 Ton Split AC	12.07.2012	26,766.53	-	26,766.53	-25,428.20	1,338.33
40000000109	Office equipment	1.5 Ton Split AC	12.07.2012	26,766.53	-	26,766.53	-25,428.20	1,338.33
40000000110	Office equipment	1.5 Ton Split AC	12.07.2012	26,766.53	-	26,766.53	-25,428.20	1,338.33
40000000111	Office equipment	1.5 Ton Split AC	12.07.2012	26,766.53	-	26,766.53	-25,428.20	1,338.33
40000000112	Office equipment	1.5 Ton Split AC	12.07.2012	26,766.53	-	26,766.53	-25,428.20	1,338.33
40000000113	Office equipment	1.5 Ton Split AC	12.07.2012	26,766.53	-	26,766.53	-25,428.20	1,338.33
40000000114	Office equipment	1.5 Ton Split AC	12.07.2012	26,766.53	-	26,766.53	-25,428.20	1,338.33
40000000115	Office equipment	1.5 Ton Split AC	12.07.2012	26,766.53	-	26,766.53	-25,428.20	1,338.33
40000000116	Office equipment	1.5 Ton Split AC	12.07.2012	26,766.53	-	26,766.53	-25,428.20	1,338.33
40000000117	Office equipment	1.5 Ton Split AC	12.07.2012	26,766.53	-	26,766.53	-25,428.20	1,338.33
40000000118	Office equipment	1.5 Ton Split AC	12.07.2012	26,766.53	-	26,766.53	-25,428.20	1,338.33
40000000119	Office equipment	1.5 Ton Split AC	12.07.2012	26,766.53	-	26,766.53	-25,428.20	1,338.33
40000000120	Office equipment	1.5 Ton Split AC	12.07.2012	26,766.53	-	26,766.53	-25,428.20	1,338.33
40000000121	Office equipment	1.5 Ton Split AC	12.07.2012	26,766.53	-	26,766.53	-25,428.20	1,338.33
40000000122	Office equipment	1.5 Ton Split AC	12.07.2012	26,766.53	-	26,766.53	-25,428.20	1,338.33
40000000123	Office equipment	1.5 Ton Split AC	12.07.2012	26,766.53	-	26,766.53	-25,428.20	1,338.33
40000000124	Office equipment	1.5 Ton Split AC	12.07.2012	26,766.53	-	26,766.53	-25,428.20	1,338.33
60000000146	Furniture and fixtures	4 Drawer Fire Resistant Filing Cabinet	14.07.2012	93,575.00	-	93,575.00	-67,180.98	26,394.02
40000000273	Office equipment	Fire Extinguisher	18.07.2012	38,937.00	-	38,937.00	-38,937.00	-
40000000137	Office equipment	Split AC	24.07.2012	22,740.90	-	22,740.90	-21,603.85	1,137.05
40000000138	Office equipment	Split AC	24.07.2012	22,740.90	-	22,740.90	-21,603.85	1,137.05
40000000139	Office equipment	Split AC	24.07.2012	22,740.90	-	22,740.90	-21,603.85	1,137.05
40000000140	Office equipment	Split AC	24.07.2012	22,740.90	-	22,740.90	-21,603.85	1,137.05
40000000141	Office equipment	Split AC	24.07.2012	22,740.90	-	22,740.90	-21,603.85	1,137.05
40000000142	Office equipment	Split AC	24.07.2012	22,740.90	-	22,740.90	-21,603.85	1,137.05
40000000143	Office equipment	Split AC	24.07.2012	22,740.90	-	22,740.90	-21,603.85	1,137.05
40000000144	Office equipment	Split AC	24.07.2012	22,740.90	-	22,740.90	-21,603.85	1,137.05
40000000145	Office equipment	Split AC	24.07.2012	22,740.90	-	22,740.90	-21,603.85	1,137.05
40000000146	Office equipment	Split AC	24.07.2012	22,740.90	-	22,740.90	-21,603.85	1,137.05
40000000134	Office equipment	Split AC	24.07.2012	21,400.00	-	21,400.00	-20,330.00	1,070.00
40000000135	Office equipment	Split AC	25.07.2012	22,741.00	-	22,741.00	-21,603.95	1,137.05
40000000136	Office equipment	Split AC	25.07.2012	22,741.00	-	22,741.00	-21,603.95	1,137.05
60000000159	Furniture and fixtures	Work Stations	27.07.2012	27,000.00	-	27,000.00	-19,296.91	7,703.09
60000000160	Furniture and fixtures	Work Stations	27.07.2012	27,000.00	-	27,000.00	-19,296.91	7,703.09
40000000225	Office equipment	Blackberry	31.07.2012	24,000.00	-	24,000.00	-22,800.00	1,200.00
40000000263	Office equipment	Voltas Water Cooler with Stabilizer	31.07.2012	40,250.00	-	40,250.00	-38,237.50	2,012.50
40000000264	Office equipment	Deep Freezer (400 Lts)	31.07.2012	25,300.00	-	25,300.00	-24,035.00	1,265.00
50000000083	Computers	Canon Ink Tanks	02.08.2012	11,077.67	-	11,077.67	-10,523.79	553.88
50000000084	Computers	Canon Ink Tanks	02.08.2012	11,077.67	-	11,077.67	-10,523.79	553.88
50000000085	Computers	Canon Ink Tanks	02.08.2012	11,077.67	-	11,077.67	-10,523.79	553.88
60000000148	Furniture and fixtures	Godrej KD Plain with 4 shelves	04.08.2012	12,254.67	-	12,254.67	-8,734.06	3,520.61
60000000149	Furniture and fixtures	Godrej KD Plain with 4 shelves	04.08.2012	12,254.67	-	12,254.67	-8,734.06	3,520.61
60000000150	Furniture and fixtures	Godrej KD Plain with 4 shelves	04.08.2012	12,254.67	-	12,254.67	-8,734.06	3,520.61
30000000045	Plant and equipment	DG Set for Field Hostel	06.08.2012	10,24,292.00	-	10,24,292.00	-4,81,653.46	5,42,638.54
60000000204	Furniture and fixtures	Revolving Chairs	08.08.2012	30,830.00	-	30,830.00	-30,830.00	-
60000000153	Furniture and fixtures	Table	09.08.2012	10,878.00	-	10,878.00	-7,739.39	3,138.61
60000000154	Furniture and fixtures	Medium Back Chairs	09.08.2012	7,099.00	-	7,099.00	-5,050.73	2,048.27
60000000155	Furniture and fixtures	Medium Back Chairs	09.08.2012	7,099.00	-	7,099.00	-5,050.73	2,048.27
60000000156	Furniture and fixtures	Medium Back Chairs	09.08.2012	7,099.00	-	7,099.00	-5,050.73	2,048.27
60000000157	Furniture and fixtures	Medium Back Chairs	09.08.2012	7,099.00	-	7,099.00	-5,050.73	2,048.27
60000000158	Furniture and fixtures	Medium Back Chairs	09.08.2012	7,099.00	-	7,099.00	-5,050.73	2,048.27
40000000265	Office equipment	Aquaguard Commercial RO Water Purifier	10.08.2012	1,77,816.00	-	1,77,816.00	-1,68,925.20	8,890.80
40000000148	Office equipment	Split AC	11.08.2012	29,595.38	-	29,595.38	-28,115.61	1,479.77
40000000149	Office equipment	Split AC	11.08.2012	29,595.38	-	29,595.38	-28,115.61	1,479.77
40000000150	Office equipment	Split AC	11.08.2012	29,595.38	-	29,595.38	-28,115.61	1,479.77
40000000151	Office equipment	Split AC	11.08.2012	29,595.38	-	29,595.38	-28,115.61	1,479.77
40000000152	Office equipment	Split AC	11.08.2012	29,595.38	-	29,595.38	-28,115.61	1,479.77
40000000153	Office equipment	Split AC	11.08.2012	29,595.38	-	29,595.38	-28,115.61	1,479.77
40000000154	Office equipment	Split AC	11.08.2012	29,595.38	-	29,595.38	-28,115.61	1,479.77
40000000155	Office equipment	Split AC	11.08.2012	29,595.38	-	29,595.38	-28,115.61	1,479.77
40000000156	Office equipment	Split AC	11.08.2012	29,595.38	-	29,595.38	-28,115.61	1,479.77
40000000157	Office equipment	Split AC	11.08.2012	29,595.38	-	29,595.38	-28,115.61	1,479.77
40000000158	Office equipment	Split AC	11.08.2012	29,595.38	-	29,595.38	-28,115.61	1,479.77
40000000159	Office equipment	Split AC	11.08.2012	29,595.38	-	29,595.38	-28,115.61	1,479.77
40000000160	Office equipment	Split AC	11.08.2012	29,595.38	-	29,595.38	-28,115.61	1,479.77
40000000161	Office equipment	Split AC	11.08.2012	29,595.38	-	29,595.38	-28,115.61	1,479.77

Annexure-2 --- FAR as at 31.03.2020

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GVK Power (Goindwal Sahib) Ltd
Fixed asset Register as on 31.03.2020

Asset	Grouping	Asset description	Cap.date	As on 01.04.2019	Purchase 2019-2020	As on 31.03.2020	Accumul. dep.	Curr.bk.val. 31.03.2020
40000000162	Office equipment	Split AC	11.08.2012	29,595.38	-	29,595.38	-28,115.61	1,479.77
40000000163	Office equipment	Split AC	11.08.2012	29,595.38	-	29,595.38	-28,115.61	1,479.77
40000000164	Office equipment	Split AC	11.08.2012	29,595.38	-	29,595.38	-28,115.61	1,479.77
40000000165	Office equipment	Split AC	11.08.2012	29,595.38	-	29,595.38	-28,115.61	1,479.77
40000000166	Office equipment	Split AC	11.08.2012	29,595.38	-	29,595.38	-28,115.61	1,479.77
40000000167	Office equipment	Split AC	11.08.2012	29,595.38	-	29,595.38	-28,115.61	1,479.77
40000000168	Office equipment	Split AC	11.08.2012	29,595.38	-	29,595.38	-28,115.61	1,479.77
40000000169	Office equipment	Split AC	11.08.2012	29,595.38	-	29,595.38	-28,115.61	1,479.77
40000000170	Office equipment	Split AC	11.08.2012	29,595.38	-	29,595.38	-28,115.61	1,479.77
40000000171	Office equipment	Split AC	11.08.2012	29,595.38	-	29,595.38	-28,115.61	1,479.77
40000000266	Office equipment	Lockout & Tag out Equipments	11.08.2012	1,19,764.00	-	1,19,764.00	-1,13,775.80	5,988.20
40000000267	Office equipment	Refrigerator	14.08.2012	22,695.00	-	22,695.00	-21,560.25	1,134.75
40000000268	Office equipment	Microwave Owen	14.08.2012	9,955.00	-	9,955.00	-9,457.25	497.75
40000000147	Office equipment	Stabilizers for Split AC	16.08.2012	66,407.00	-	66,407.00	-66,407.00	-
60000000182	Furniture and fixtures	Single Wooden Beds	17.08.2012	2,20,220.00	-	2,20,220.00	-1,56,243.52	63,976.48
40000000223	Office equipment	Stabilizers for Split AC	18.08.2012	26,400.00	-	26,400.00	-26,400.00	-
60000000162	Furniture and fixtures	3 Door Almirah With Mirror	18.08.2012	10,400.00	-	10,400.00	-7,376.10	3,023.90
60000000163	Furniture and fixtures	3 Door Almirah With Mirror	18.08.2012	10,400.00	-	10,400.00	-7,376.10	3,023.90
60000000164	Furniture and fixtures	3 Door Almirah With Mirror	18.08.2012	10,400.00	-	10,400.00	-7,376.10	3,023.90
60000000165	Furniture and fixtures	3 Door Almirah With Mirror	18.08.2012	10,400.00	-	10,400.00	-7,376.10	3,023.90
60000000166	Furniture and fixtures	3 Door Almirah With Mirror	18.08.2012	10,400.00	-	10,400.00	-7,376.10	3,023.90
60000000167	Furniture and fixtures	3 Door Almirah With Mirror	18.08.2012	10,400.00	-	10,400.00	-7,376.10	3,023.90
60000000168	Furniture and fixtures	3 Door Almirah With Mirror	18.08.2012	10,400.00	-	10,400.00	-7,376.10	3,023.90
60000000169	Furniture and fixtures	3 Door Almirah With Mirror	18.08.2012	10,400.00	-	10,400.00	-7,376.10	3,023.90
60000000170	Furniture and fixtures	3 Door Almirah With Mirror	18.08.2012	10,400.00	-	10,400.00	-7,376.10	3,023.90
60000000171	Furniture and fixtures	3 Door Almirah With Mirror	18.08.2012	10,400.00	-	10,400.00	-7,376.10	3,023.90
60000000205	Furniture and fixtures	Revolving Chairs	18.08.2012	7,503.20	-	7,503.20	-5,321.58	2,181.62
60000000206	Furniture and fixtures	Revolving Chairs	18.08.2012	7,503.20	-	7,503.20	-5,321.58	2,181.62
60000000207	Furniture and fixtures	Revolving Chairs	18.08.2012	7,503.20	-	7,503.20	-5,321.58	2,181.62
60000000208	Furniture and fixtures	Revolving Chairs	18.08.2012	7,503.20	-	7,503.20	-5,321.58	2,181.62
60000000209	Furniture and fixtures	Revolving Chairs	18.08.2012	7,503.20	-	7,503.20	-5,321.58	2,181.62
60000000183	Furniture and fixtures	Single Wooden Beds	19.08.2012	1,10,110.00	-	1,10,110.00	-78,067.22	32,042.78
60000000184	Furniture and fixtures	Chimney Hood & Kitchen items	19.08.2012	1,45,672.00	-	1,45,672.00	-1,03,280.44	42,391.56
60000000172	Furniture and fixtures	3 Door Almirah Without Mirror	20.08.2012	11,200.00	-	11,200.00	-7,937.96	3,262.04
60000000173	Furniture and fixtures	3 Door Almirah Without Mirror	20.08.2012	11,200.00	-	11,200.00	-7,937.96	3,262.04
60000000174	Furniture and fixtures	3 Door Almirah Without Mirror	20.08.2012	11,200.00	-	11,200.00	-7,937.96	3,262.04
60000000175	Furniture and fixtures	3 Door Almirah Without Mirror	20.08.2012	11,200.00	-	11,200.00	-7,937.96	3,262.04
60000000176	Furniture and fixtures	3 Door Almirah Without Mirror	20.08.2012	11,200.00	-	11,200.00	-7,937.96	3,262.04
60000000177	Furniture and fixtures	3 Door Almirah Without Mirror	20.08.2012	11,200.00	-	11,200.00	-7,937.96	3,262.04
60000000178	Furniture and fixtures	3 Door Almirah Without Mirror	20.08.2012	11,200.00	-	11,200.00	-7,937.96	3,262.04
60000000179	Furniture and fixtures	3 Door Almirah Without Mirror	20.08.2012	11,200.00	-	11,200.00	-7,937.96	3,262.04
60000000180	Furniture and fixtures	3 Door Almirah Without Mirror	20.08.2012	11,200.00	-	11,200.00	-7,937.96	3,262.04
60000000181	Furniture and fixtures	3 Door Almirah Without Mirror	20.08.2012	11,200.00	-	11,200.00	-7,937.96	3,262.04
50000000077	Computers	Canon LBP Laser Printer	21.08.2012	9,500.00	-	9,500.00	-9,025.00	475.00
50000000087	Computers	Canon Printer cum Scanner	23.08.2012	18,600.00	-	18,600.00	-17,670.00	930.00
60000000151	Furniture and fixtures	High Back Chairs	23.08.2012	7,328.00	-	7,328.00	-5,188.25	2,139.75
60000000152	Furniture and fixtures	High Back Chairs	23.08.2012	7,328.00	-	7,328.00	-5,188.25	2,139.75
40000000172	Office equipment	Split AC	24.08.2012	31,012.73	-	31,012.73	-29,462.09	1,550.64
40000000173	Office equipment	Split AC	24.08.2012	31,012.73	-	31,012.73	-29,462.09	1,550.64
40000000174	Office equipment	Split AC	24.08.2012	31,012.73	-	31,012.73	-29,462.09	1,550.64
40000000175	Office equipment	Split AC	24.08.2012	31,012.73	-	31,012.73	-29,462.09	1,550.64
40000000176	Office equipment	Split AC	24.08.2012	31,012.73	-	31,012.73	-29,462.09	1,550.64
40000000177	Office equipment	Split AC	24.08.2012	31,012.73	-	31,012.73	-29,462.09	1,550.64
40000000178	Office equipment	Split AC	24.08.2012	31,012.73	-	31,012.73	-29,462.09	1,550.64

Annexure-2 --- FAR as at 31.03.2020

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GVK Power (Goindwal Sahib) Ltd
Fixed asset Register as on 31.03.2020

Asset	Grouping	Asset description	Cap.date	As on 01.04.2019	Purchase 2019-2020	As on 31.03.2020	Accumul. dep.	Curr.bk.val. 31.03.2020
40000000179	Office equipment	Split AC	24.08.2012	31,012.73	-	31,012.73	-29,462.09	1,550.64
40000000180	Office equipment	Split AC	24.08.2012	31,012.73	-	31,012.73	-29,462.09	1,550.64
40000000181	Office equipment	Split AC	24.08.2012	31,012.73	-	31,012.73	-29,462.09	1,550.64
40000000182	Office equipment	Split AC	24.08.2012	31,012.73	-	31,012.73	-29,462.09	1,550.64
40000000183	Office equipment	Split AC	24.08.2012	31,012.73	-	31,012.73	-29,462.09	1,550.64
40000000184	Office equipment	Split AC	24.08.2012	31,012.73	-	31,012.73	-29,462.09	1,550.64
40000000185	Office equipment	Split AC	24.08.2012	31,012.73	-	31,012.73	-29,462.09	1,550.64
40000000186	Office equipment	Split AC	24.08.2012	31,012.73	-	31,012.73	-29,462.09	1,550.64
40000000187	Office equipment	Split AC	24.08.2012	31,012.73	-	31,012.73	-29,462.09	1,550.64
40000000188	Office equipment	Split AC	24.08.2012	31,012.73	-	31,012.73	-29,462.09	1,550.64
40000000189	Office equipment	Split AC	24.08.2012	31,012.73	-	31,012.73	-29,462.09	1,550.64
40000000190	Office equipment	Split AC	24.08.2012	31,012.73	-	31,012.73	-29,462.09	1,550.64
40000000191	Office equipment	Split AC	24.08.2012	31,012.73	-	31,012.73	-29,462.09	1,550.64
40000000192	Office equipment	Split AC	24.08.2012	31,012.73	-	31,012.73	-29,462.09	1,550.64
40000000193	Office equipment	Split AC	24.08.2012	31,012.73	-	31,012.73	-29,462.09	1,550.64
40000000194	Office equipment	Split AC	24.08.2012	31,012.73	-	31,012.73	-29,462.09	1,550.64
40000000195	Office equipment	Split AC	24.08.2012	31,012.73	-	31,012.73	-29,462.09	1,550.64
40000000196	Office equipment	Split AC	24.08.2012	31,012.73	-	31,012.73	-29,462.09	1,550.64
40000000197	Office equipment	Split AC	24.08.2012	31,012.73	-	31,012.73	-29,462.09	1,550.64
40000000198	Office equipment	Split AC	24.08.2012	31,012.73	-	31,012.73	-29,462.09	1,550.64
40000000199	Office equipment	Split AC	24.08.2012	31,012.73	-	31,012.73	-29,462.09	1,550.64
40000000200	Office equipment	Split AC	24.08.2012	31,012.73	-	31,012.73	-29,462.09	1,550.64
40000000201	Office equipment	Split AC	24.08.2012	31,012.73	-	31,012.73	-29,462.09	1,550.64
40000000202	Office equipment	Split AC	24.08.2012	31,012.73	-	31,012.73	-29,462.09	1,550.64
40000000203	Office equipment	Split AC	24.08.2012	31,012.73	-	31,012.73	-29,462.09	1,550.64
40000000204	Office equipment	Split AC	24.08.2012	31,012.73	-	31,012.73	-29,462.09	1,550.64
40000000205	Office equipment	Split AC	24.08.2012	31,012.73	-	31,012.73	-29,462.09	1,550.64
40000000206	Office equipment	Split AC	24.08.2012	31,012.73	-	31,012.73	-29,462.09	1,550.64
40000000207	Office equipment	Split AC	24.08.2012	31,012.73	-	31,012.73	-29,462.09	1,550.64
40000000208	Office equipment	Split AC	24.08.2012	31,012.73	-	31,012.73	-29,462.09	1,550.64
40000000209	Office equipment	Split AC	24.08.2012	31,012.73	-	31,012.73	-29,462.09	1,550.64
40000000210	Office equipment	Split AC	24.08.2012	31,012.73	-	31,012.73	-29,462.09	1,550.64
40000000211	Office equipment	Split AC	24.08.2012	31,012.73	-	31,012.73	-29,462.09	1,550.64
40000000231	Office equipment	Apple I Phone 4 - 16 GB	25.08.2012	19,000.00	-	19,000.00	-18,050.00	950.00
60000000230	Furniture and fixtures	Loto Lock out Box Cabinet - 24 Lockers	25.08.2012	2,33,690.00	-	2,33,690.00	-1,65,337.67	68,352.33
60000000185	Furniture and fixtures	3 Door Almirah With Mirror	27.08.2012	11,200.00	-	11,200.00	-7,918.55	3,281.45
60000000186	Furniture and fixtures	3 Door Almirah With Mirror	27.08.2012	11,200.00	-	11,200.00	-7,918.55	3,281.45
60000000187	Furniture and fixtures	3 Door Almirah With Mirror	27.08.2012	11,200.00	-	11,200.00	-7,918.55	3,281.45
60000000188	Furniture and fixtures	3 Door Almirah With Mirror	27.08.2012	11,200.00	-	11,200.00	-7,918.55	3,281.45
60000000189	Furniture and fixtures	3 Door Almirah With Mirror	27.08.2012	11,200.00	-	11,200.00	-7,918.55	3,281.45
60000000190	Furniture and fixtures	3 Door Almirah With Mirror	27.08.2012	11,200.00	-	11,200.00	-7,918.55	3,281.45
60000000191	Furniture and fixtures	3 Door Almirah With Mirror	27.08.2012	11,200.00	-	11,200.00	-7,918.55	3,281.45
60000000192	Furniture and fixtures	3 Door Almirah With Mirror	27.08.2012	11,200.00	-	11,200.00	-7,918.55	3,281.45
60000000193	Furniture and fixtures	3 Door Almirah With Mirror	27.08.2012	11,200.00	-	11,200.00	-7,918.55	3,281.45
40000000269	Office equipment	Insect Killer	31.08.2012	6,600.00	-	6,600.00	-6,270.00	330.00
60000000231	Furniture and fixtures	Loto Lock out Box Cabinet - 12 Lockers	31.08.2012	92,730.00	-	92,730.00	-65,469.78	27,260.22
60000000194	Furniture and fixtures	3 Door Almirah With Mirror	03.09.2012	11,200.00	-	11,200.00	-7,899.19	3,300.81
60000000195	Furniture and fixtures	3 Door Almirah With Mirror	03.09.2012	11,200.00	-	11,200.00	-7,899.19	3,300.81
60000000196	Furniture and fixtures	3 Door Almirah With Mirror	03.09.2012	11,200.00	-	11,200.00	-7,899.19	3,300.81
60000000197	Furniture and fixtures	3 Door Almirah With Mirror	03.09.2012	11,200.00	-	11,200.00	-7,899.19	3,300.81
60000000198	Furniture and fixtures	3 Door Almirah Without Mirror	03.09.2012	10,400.00	-	10,400.00	-7,334.97	3,065.03
60000000199	Furniture and fixtures	3 Door Almirah Without Mirror	03.09.2012	10,400.00	-	10,400.00	-7,334.97	3,065.03
60000000200	Furniture and fixtures	3 Door Almirah Without Mirror	03.09.2012	10,400.00	-	10,400.00	-7,334.97	3,065.03
60000000201	Furniture and fixtures	3 Door Almirah Without Mirror	03.09.2012	10,400.00	-	10,400.00	-7,334.97	3,065.03
60000000202	Furniture and fixtures	3 Door Almirah Without Mirror	03.09.2012	10,400.00	-	10,400.00	-7,334.97	3,065.03
60000000203	Furniture and fixtures	Kurlon Matressess	03.09.2012	1,65,206.00	-	1,65,206.00	-1,65,206.00	-
50000000078	Computers	HP Desktops	04.09.2012	33,800.00	-	33,800.00	-32,110.00	1,690.00
50000000079	Computers	HP Desktops	04.09.2012	33,800.00	-	33,800.00	-32,110.00	1,690.00
50000000080	Computers	HP Desktops	04.09.2012	33,800.00	-	33,800.00	-32,110.00	1,690.00
50000000081	Computers	HP Desktops	04.09.2012	33,800.00	-	33,800.00	-32,110.00	1,690.00
50000000082	Computers	HP Desktops	04.09.2012	33,800.00	-	33,800.00	-32,110.00	1,690.00
60000000219	Furniture and fixtures	Single Wooden Beds	13.09.2012	2,40,240.00	-	2,40,240.00	-1,68,845.23	71,394.77
60000000220	Furniture and fixtures	Single Wooden Beds	13.09.2012	1,10,642.40	-	1,10,642.40	-77,761.57	32,880.83

Annexure-2 --- FAR as at 31.03.2020

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GVK Power (Goindwal Sahib) Ltd
Fixed asset Register as on 31.03.2020

Asset	Grouping	Asset description	Cap.date	As on 01.04.2019	Purchase 2019-2020	As on 31.03.2020	Accumul. dep.	Curr.bk.val. 31.03.2020
60000000210	Furniture and fixtures	Almirah With Mirror	17.09.2012	11,200.00	-	11,200.00	-7,860.54	3,339.46
60000000211	Furniture and fixtures	Almirah With Mirror	17.09.2012	11,200.00	-	11,200.00	-7,860.54	3,339.46
60000000212	Furniture and fixtures	Almirah With Mirror	17.09.2012	11,200.00	-	11,200.00	-7,860.54	3,339.46
60000000213	Furniture and fixtures	Almirah With Mirror	17.09.2012	11,200.00	-	11,200.00	-7,860.54	3,339.46
60000000214	Furniture and fixtures	Almirah Without Mirror	17.09.2012	10,400.00	-	10,400.00	-7,299.07	3,100.93
60000000215	Furniture and fixtures	Almirah Without Mirror	17.09.2012	10,400.00	-	10,400.00	-7,299.07	3,100.93
60000000216	Furniture and fixtures	Almirah Without Mirror	17.09.2012	10,400.00	-	10,400.00	-7,299.07	3,100.93
60000000217	Furniture and fixtures	Almirah Without Mirror	17.09.2012	10,400.00	-	10,400.00	-7,299.07	3,100.93
60000000218	Furniture and fixtures	Almirah Without Mirror	17.09.2012	10,400.00	-	10,400.00	-7,299.07	3,100.93
40000000212	Office equipment	1.5 Ton Split AC	21.09.2012	26,767.00	-	26,767.00	-25,428.65	1,338.35
40000000213	Office equipment	1.5 Ton Split AC	21.09.2012	26,767.00	-	26,767.00	-25,428.65	1,338.35
40000000214	Office equipment	1.5 Ton Split AC	21.09.2012	26,767.00	-	26,767.00	-25,428.65	1,338.35
40000000215	Office equipment	1.5 Ton Split AC	21.09.2012	26,767.00	-	26,767.00	-25,428.65	1,338.35
40000000216	Office equipment	1.5 Ton Split AC	21.09.2012	26,767.00	-	26,767.00	-25,428.65	1,338.35
40000000217	Office equipment	1.5 Ton Split AC	21.09.2012	26,767.00	-	26,767.00	-25,428.65	1,338.35
40000000218	Office equipment	1.5 Ton Split AC	21.09.2012	26,767.00	-	26,767.00	-25,428.65	1,338.35
40000000219	Office equipment	1.5 Ton Split AC	21.09.2012	26,767.00	-	26,767.00	-25,428.65	1,338.35
40000000220	Office equipment	1.5 Ton Split AC	21.09.2012	26,767.00	-	26,767.00	-25,428.65	1,338.35
40000000221	Office equipment	1.5 Ton Split AC	21.09.2012	26,767.00	-	26,767.00	-25,428.65	1,338.35
40000000222	Office equipment	1.5 Ton Split AC	21.09.2012	26,767.00	-	26,767.00	-25,428.65	1,338.35
40000000270	Office equipment	Room Heaters	25.09.2012	68,079.00	-	68,079.00	-68,079.00	-
60000000232	Furniture and fixtures	Study Tables	27.09.2012	1,02,870.00	-	1,02,870.00	-71,944.65	30,925.35
40000000272	Office equipment	Washing Machine	30.09.2012	18,579.00	-	18,579.00	-17,650.05	928.95
60000000221	Furniture and fixtures	Almirah With Mirror	03.10.2012	11,200.00	-	11,200.00	-7,816.50	3,383.50
60000000222	Furniture and fixtures	Almirah With Mirror	03.10.2012	11,200.00	-	11,200.00	-7,816.50	3,383.50
60000000223	Furniture and fixtures	Almirah With Mirror	03.10.2012	11,200.00	-	11,200.00	-7,816.50	3,383.50
60000000224	Furniture and fixtures	Almirah Without Mirror	03.10.2012	10,400.00	-	10,400.00	-7,258.17	3,141.83
60000000225	Furniture and fixtures	Almirah Without Mirror	03.10.2012	10,400.00	-	10,400.00	-7,258.17	3,141.83
60000000226	Furniture and fixtures	Almirah Without Mirror	03.10.2012	10,400.00	-	10,400.00	-7,258.17	3,141.83
60000000227	Furniture and fixtures	Almirah Without Mirror	03.10.2012	10,400.00	-	10,400.00	-7,258.17	3,141.83
60000000228	Furniture and fixtures	Almirah Without Mirror	03.10.2012	10,400.00	-	10,400.00	-7,258.17	3,141.83
60000000229	Furniture and fixtures	Almirah Without Mirror	03.10.2012	10,400.00	-	10,400.00	-7,258.17	3,141.83
60000000234	Furniture and fixtures	Almirah With Mirror	12.10.2012	11,200.00	-	11,200.00	-7,791.76	3,408.24
60000000235	Furniture and fixtures	Almirah With Mirror	12.10.2012	11,200.00	-	11,200.00	-7,791.76	3,408.24
60000000236	Furniture and fixtures	Almirah Without Mirror	12.10.2012	10,400.00	-	10,400.00	-7,235.22	3,164.78
60000000237	Furniture and fixtures	Almirah Without Mirror	12.10.2012	10,400.00	-	10,400.00	-7,235.22	3,164.78
60000000238	Furniture and fixtures	Almirah Without Mirror	12.10.2012	10,400.00	-	10,400.00	-7,235.22	3,164.78
60000000239	Furniture and fixtures	Almirah Without Mirror	12.10.2012	10,400.00	-	10,400.00	-7,235.22	3,164.78
60000000240	Furniture and fixtures	Almirah Without Mirror	12.10.2012	10,400.00	-	10,400.00	-7,235.22	3,164.78
60000000241	Furniture and fixtures	Almirah Without Mirror	12.10.2012	10,400.00	-	10,400.00	-7,235.22	3,164.78
60000000242	Furniture and fixtures	Lockout Padlocks	15.10.2012	31,373.00	-	31,373.00	-21,802.96	9,570.04
60000000244	Furniture and fixtures	Cupboard 5*4'	15.10.2012	8,300.00	-	8,300.00	-5,768.15	2,531.85
60000000245	Furniture and fixtures	Cupboard 5*4'	15.10.2012	8,300.00	-	8,300.00	-5,768.15	2,531.85
60000000246	Furniture and fixtures	Cupboard 8*3'	15.10.2012	9,960.00	-	9,960.00	-6,921.80	3,038.20
60000000247	Furniture and fixtures	Cupboard 8*3'	15.10.2012	9,960.00	-	9,960.00	-6,921.80	3,038.20
40000000271	Office equipment	Electronic Data Processor	15.10.2012	1,38,000.00	-	1,38,000.00	-1,31,100.00	6,900.00
40000000227	Office equipment	Telephones	19.10.2012	70,612.50	-	70,612.50	-67,081.87	3,530.63
40000000228	Office equipment	Telephones	19.10.2012	70,612.50	-	70,612.50	-67,081.87	3,530.63
60000000248	Furniture and fixtures	Work Stations	20.10.2012	27,000.00	-	27,000.00	-18,730.84	8,269.16
50000000088	Computers	Dell 1320 - Battery	29.10.2012	-	-	-	-	-
60000000233	Furniture and fixtures	Corner Shelf Glass	31.10.2012	9,590.00	-	9,590.00	-9,590.00	-

Annexure-2 --- FAR as at 31.03.2020

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GVK Power (Goindwal Sahib) Ltd
Fixed asset Register as on 31.03.2020

Asset	Grouping	Asset description	Cap.date	As on 01.04.2019	Purchase 2019-2020	As on 31.03.2020	Accumul. dep.	Curr.bk.val. 31.03.2020
60000000243	Furniture and fixtures	Cushion Chairs	05.11.2012	62,667.00	-	62,667.00	-62,667.00	-
60000000254	Furniture and fixtures	Iron Racks	29.11.2012	71,438.00	-	71,438.00	-71,438.00	-
60000000255	Furniture and fixtures	Iron Racks	29.11.2012	11,430.00	-	11,430.00	-11,430.00	-
60000000249	Furniture and fixtures	Steel Racks	30.11.2012	16,250.00	-	16,250.00	-11,110.81	5,139.19
40000000229	Office equipment	Mobile Accessories	11.12.2012	9,975.00	-	9,975.00	-9,476.25	498.75
40000000224	Office equipment	Split AC inc of installation cost	12.12.2012	55,170.00	-	55,170.00	-52,411.50	2,758.50
60000000250	Furniture and fixtures	Fulkrum High Back Chair	13.12.2012	20,610.00	-	20,610.00	-14,026.96	6,583.04
60000000251	Furniture and fixtures	Fulkrum Low Back Chairs	13.12.2012	12,595.00	-	12,595.00	-8,572.02	4,022.98
60000000252	Furniture and fixtures	Fulkrum Low Back Chairs	13.12.2012	12,595.00	-	12,595.00	-8,572.02	4,022.98
60000000253	Furniture and fixtures	Fulkrum Low Back Chairs	13.12.2012	12,595.00	-	12,595.00	-8,572.02	4,022.98
40000000230	Office equipment	Blackberry Mobile Accessories	26.12.2012	3,350.00	-	3,350.00	-3,350.00	-
10000000003	Freehold land	Land and Land Development – Power Project	31.12.2012	194,87,710.00	-	194,87,710.00	-	194,87,710.00
10000000004	Freehold land	Land and Land Development – Power Project	31.12.2012	19,81,600.00	-	19,81,600.00	-	19,81,600.00
10000000005	Freehold land	Land Development – Power Project	31.12.2012	325,94,607.18	-	325,94,607.18	-	325,94,607.18
50000000089	Computers	Canon Drum NPG-51	31.12.2012	18,095.00	-	18,095.00	-17,190.25	904.75
60000000256	Furniture and fixtures	Steel Almirah	31.12.2012	12,025.00	-	12,025.00	-8,131.74	3,893.26
60000000257	Furniture and fixtures	Steel Almirah	31.12.2012	12,025.00	-	12,025.00	-8,131.74	3,893.26
60000000258	Furniture and fixtures	Steel Almirah	31.12.2012	12,025.00	-	12,025.00	-8,131.74	3,893.26
60000000259	Furniture and fixtures	Steel Almirah	31.12.2012	12,025.00	-	12,025.00	-8,131.74	3,893.26
60000000260	Furniture and fixtures	Steel Almirah	31.12.2012	12,025.00	-	12,025.00	-8,131.74	3,893.26
60000000261	Furniture and fixtures	Steel Almirah	31.12.2012	12,025.00	-	12,025.00	-8,131.74	3,893.26
60000000262	Furniture and fixtures	Steel Almirah	31.12.2012	12,025.00	-	12,025.00	-8,131.74	3,893.26
60000000263	Furniture and fixtures	Steel Almirah	31.12.2012	12,025.00	-	12,025.00	-8,131.74	3,893.26
60000000264	Furniture and fixtures	Steel Almirah	31.12.2012	12,025.00	-	12,025.00	-8,131.74	3,893.26
60000000265	Furniture and fixtures	Steel Almirah	31.12.2012	12,025.00	-	12,025.00	-8,131.74	3,893.26
60090000000	Furniture and fixtures	Steel Racks	31.12.2012	-	-	-	-	-
40000000274	Office equipment	KEY BOX SET WOODEN GLASS	03.01.2013	-	-	-	-	-
60000000322	Furniture and fixtures	KEY BOX SET WOODEN GLASS	03.01.2013	3,000.00	-	3,000.00	-3,000.00	-
60000000267	Furniture and fixtures	CUP BOARD WOODEN 5'x4'x16"	04.01.2013	24,900.00	-	24,900.00	-16,814.23	8,085.77
30000000052	Plant and equipment	ROOM HEATER (HEAT CONVECTOR) MAKE BAJAJ	07.01.2013	24,003.00	-	24,003.00	-22,802.85	1,200.15
60000000269	Furniture and fixtures	SHOES RACK 4'X3'X1' (WOODEN)	11.01.2013	25,400.00	-	25,400.00	-17,101.15	8,298.85
30000000049	Plant and equipment	SODIUM VAPOR LIGHT FITTING WITH HPSV LAMP & CHOKE	19.01.2013	-	-	-	-	-
30000000051	Plant and equipment	CLAMP METER, MODEL- KEWSMA P 2434	19.01.2013	-	-	-	-	-
30000000053	Plant and equipment	SEARCH LIGHT (MAKE METSCAN)	19.01.2013	39,280.00	-	39,280.00	-37,316.00	1,964.00
30000000050	Plant and equipment	DIGITAL MULTI METER, MODEL- M41, MAKE, MOTWANE	21.01.2013	3,675.00	-	3,675.00	-3,675.00	-
40000000275	Office equipment	PORTABLE PUBLIC ADDRESS SYSTEM (MEGA PHONE)	28.01.2013	6,300.00	-	6,300.00	-6,300.00	-
60000000312	Furniture and fixtures	Dining Table	07.02.2013	13,054.00	-	13,054.00	-8,708.21	4,345.79
60000000313	Furniture and fixtures	Dining Table	07.02.2013	13,054.00	-	13,054.00	-8,708.21	4,345.79
60000000314	Furniture and fixtures	Dining Table	07.02.2013	13,054.00	-	13,054.00	-8,708.21	4,345.79
60000000315	Furniture and fixtures	Dining Table	07.02.2013	13,054.00	-	13,054.00	-8,708.21	4,345.79
60000000316	Furniture and fixtures	Dining Table	07.02.2013	13,054.00	-	13,054.00	-8,708.21	4,345.79

Annexure-2 --- FAR as at 31.03.2020

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GVK Power (Goindwal Sahib) Ltd
Fixed asset Register as on 31.03.2020

Asset	Grouping	Asset description	Cap.date	As on 01.04.2019	Purchase 2019-2020	As on 31.03.2020	Accumul. dep.	Curr.bk.val. 31.03.2020
60000000317	Furniture and fixtures	Dining Table	07.02.2013	13,054.00	-	13,054.00	-8,708.21	4,345.79
60000000318	Furniture and fixtures	Dining Table	07.02.2013	13,054.00	-	13,054.00	-8,708.21	4,345.79
60000000319	Furniture and fixtures	Dining Table	07.02.2013	13,054.00	-	13,054.00	-8,708.21	4,345.79
60000000320	Furniture and fixtures	Dining Chairs (48) Nos	07.02.2013	1,55,651.00	-	1,55,651.00	-1,55,651.00	-
70000000011	Vehicles	Hero Honda Splendour-PB 46N 9148	07.02.2013	49,900.00	-	49,900.00	-33,871.85	16,028.15
70000000012	Vehicles	Hero Honda Splendour-PB 46N 9149	07.02.2013	49,900.00	-	49,900.00	-33,871.85	16,028.15
70000000013	Vehicles	Hero Honda Splendour-PB 46N 9152	07.02.2013	49,900.00	-	49,900.00	-33,871.85	16,028.15
70000000014	Vehicles	Hero Honda Splendour-PB 46N 9279	07.02.2013	49,900.00	-	49,900.00	-33,871.85	16,028.15
30000000067	Plant and equipment	Mixer Grinder MG 2753 (Usha 550 Watt Sr.No AMM3301)	05.03.2013	2,500.00	-	2,500.00	-2,375.00	125.00
60000000271	Furniture and fixtures	Chair PVC (Make Neelkamal) Model 2138	05.03.2013	13,600.00	-	13,600.00	-13,600.00	-
40000000315	Office equipment	Fire Extinguisher - 7 Nos - 2 Kgs	06.03.2013	12,994.00	-	12,994.00	-12,994.00	-
40000000316	Office equipment	Fire Extinguisher - 3 Nos - 3 Kgs	06.03.2013	7,847.00	-	7,847.00	-7,847.00	-
40000000314	Office equipment	Eagle Eye 3 Camera incl Inst Chgs	12.03.2013	1,13,659.00	-	1,13,659.00	-1,07,976.05	5,682.95
60000000321	Furniture and fixtures	Steel Racks	19.03.2013	6,05,472.00	-	6,05,472.00	-3,98,114.50	2,07,357.50
21000000005	Buildings	Approach Road	31.03.2013	66,57,158.00	-	66,57,158.00	-	66,57,158.00
30000000174	Plant and equipment	Relay 10Amps 12 Channel	01.04.2013	62,468.91	-	62,468.91	-59,345.46	3,123.45
30000000178	Plant and equipment	Digital Multimeeter	01.04.2013	35,700.00	-	35,700.00	-33,915.00	1,785.00
40000000331	Office equipment	Ipad with Retina display with Wi-fi+32GB	01.04.2013	1,37,700.01	-	1,37,700.01	-1,30,815.01	6,885.00
50000000091	Computers	Time Capsule - 2TB	26.04.2013	15,900.00	-	15,900.00	-15,105.00	795.00
40000000337	Office equipment	Hand Dryer	02.05.2013	21,047.00	-	21,047.00	-19,994.65	1,052.35
40000000311	Office equipment	Black Berry Phone Battery	06.05.2013	-	-	-	-	-
30000000055	Plant and equipment	Hand Dryer (High-Speed, Energy-Efficient)	08.05.2013	-	-	-	-	-
30000000056	Plant and equipment	Relay 10Amps 12 Channel	10.05.2013	-	-	-	-	-
50000000092	Computers	Ipad with Retina display with Wi-fi+32GB	10.05.2013	-	-	-	-	-
40000000332	Office equipment	Ipad with Retina display with Wi-fi+32GB	15.05.2013	45,900.00	-	45,900.00	-43,605.00	2,295.00
40000000278	Office equipment	CANON 2420 Copier Printer.	22.05.2013	94,384.50	-	94,384.50	-89,665.27	4,719.23
50000000096	Computers	Ipad with Retina display with Wi-fi+32GB	31.05.2013	-	-	-	-	-
40000000312	Office equipment	Water Cooler (Voltas) 20/20	07.06.2013	17,590.00	-	17,590.00	-16,710.50	879.50
30000000054	Plant and equipment	Insecticutor	10.06.2013	6,600.00	-	6,600.00	-6,270.00	330.00
60000000305	Furniture and fixtures	Wooden Table (L Type) 66X42X30X30"	10.06.2013	14,500.00	-	14,500.00	-9,249.33	5,250.67
60000000306	Furniture and fixtures	Cup Board (Wooden) 69X36X20"	10.06.2013	8,550.00	-	8,550.00	-5,453.90	3,096.10
30000000175	Plant and equipment	Bulldozer-With Coal Blade	28.06.2013	162,28,558.80	-	162,28,558.80	-68,34,016.02	93,94,542.78
40000000317	Office equipment	Blackberry Q 10 Phone with BB Headset	01.07.2013	44,750.00	-	44,750.00	-42,512.50	2,237.50
40000000277	Office equipment	Air Conditioner 1 Ton Capacity	03.07.2013	21,122.23	-	21,122.23	-20,066.12	1,056.11
40000000279	Office equipment	Stablizer 4 KVA	03.07.2013	67,500.00	-	67,500.00	-64,125.00	3,375.00
40000000280	Office equipment	Air Conditioner 1 Ton Capacity	03.07.2013	21,122.23	-	21,122.23	-20,066.12	1,056.11
40000000281	Office equipment	Air Conditioner 1 Ton Capacity	03.07.2013	21,122.23	-	21,122.23	-20,066.12	1,056.11
40000000282	Office equipment	Air Conditioner 1 Ton Capacity	03.07.2013	21,122.23	-	21,122.23	-20,066.12	1,056.11
40000000283	Office equipment	Air Conditioner 1 Ton Capacity	03.07.2013	21,122.23	-	21,122.23	-20,066.12	1,056.11
40000000284	Office equipment	Air Conditioner 1 Ton Capacity	03.07.2013	21,122.23	-	21,122.23	-20,066.12	1,056.11
40000000285	Office equipment	Air Conditioner 1 Ton Capacity	03.07.2013	21,122.23	-	21,122.23	-20,066.12	1,056.11
40000000286	Office equipment	Air Conditioner 1 Ton Capacity	03.07.2013	21,122.23	-	21,122.23	-20,066.12	1,056.11
40000000287	Office equipment	Air Conditioner 1 Ton Capacity	03.07.2013	21,122.23	-	21,122.23	-20,066.12	1,056.11
40000000288	Office equipment	Air Conditioner 1 Ton Capacity	03.07.2013	21,122.23	-	21,122.23	-20,066.12	1,056.11

Annexure-2 --- FAR as at 31.03.2020

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GVK Power (Goindwal Sahib) Ltd
Fixed asset Register as on 31.03.2020

Asset	Grouping	Asset description	Cap.date	As on 01.04.2019	Purchase 2019-2020	As on 31.03.2020	Accumul. dep.	Curr.bk.val. 31.03.2020
40000000289	Office equipment	Air Conditioner 1 Ton Capacity	03.07.2013	21,122.23	-	21,122.23	-20,066.12	1,056.11
40000000290	Office equipment	Air Conditioner 1 Ton Capacity	03.07.2013	21,122.23	-	21,122.23	-20,066.12	1,056.11
40000000291	Office equipment	Air Conditioner 1 Ton Capacity	03.07.2013	21,122.23	-	21,122.23	-20,066.12	1,056.11
40000000292	Office equipment	Air Conditioner 1 Ton Capacity	03.07.2013	21,122.23	-	21,122.23	-20,066.12	1,056.11
40000000293	Office equipment	Air Conditioner 1 Ton Capacity	03.07.2013	21,122.23	-	21,122.23	-20,066.12	1,056.11
40000000294	Office equipment	Air Conditioner 1 Ton Capacity	03.07.2013	20,693.60	-	20,693.60	-19,658.92	1,034.68
40000000295	Office equipment	Air Conditioner 1 Ton Capacity	03.07.2013	20,693.60	-	20,693.60	-19,658.92	1,034.68
40000000296	Office equipment	Air Conditioner 1 Ton Capacity	03.07.2013	20,693.60	-	20,693.60	-19,658.92	1,034.68
40000000297	Office equipment	Air Conditioner 1 Ton Capacity	03.07.2013	20,693.60	-	20,693.60	-19,658.92	1,034.68
40000000298	Office equipment	Air Conditioner 1 Ton Capacity	03.07.2013	20,693.60	-	20,693.60	-19,658.92	1,034.68
40000000299	Office equipment	Air Conditioner 1 Ton Capacity	03.07.2013	20,693.60	-	20,693.60	-19,658.92	1,034.68
40000000300	Office equipment	Air Conditioner 1 Ton Capacity	03.07.2013	20,693.60	-	20,693.60	-19,658.92	1,034.68
40000000301	Office equipment	Air Conditioner 1 Ton Capacity	03.07.2013	20,693.60	-	20,693.60	-19,658.92	1,034.68
40000000302	Office equipment	Air Conditioner 1 Ton Capacity	03.07.2013	20,693.60	-	20,693.60	-19,658.92	1,034.68
40000000303	Office equipment	Air Conditioner 1 Ton Capacity	03.07.2013	20,693.60	-	20,693.60	-19,658.92	1,034.68
40000000304	Office equipment	Air Conditioner 1 Ton Capacity	03.07.2013	20,693.60	-	20,693.60	-19,658.92	1,034.68
40000000305	Office equipment	Air Conditioner 1 Ton Capacity	03.07.2013	19,570.00	-	19,570.00	-18,591.50	978.50
40000000306	Office equipment	Air Conditioner 1 Ton Capacity	03.07.2013	19,570.00	-	19,570.00	-18,591.50	978.50
40000000307	Office equipment	Air Conditioner 1 Ton Capacity	03.07.2013	19,570.00	-	19,570.00	-18,591.50	978.50
40000000308	Office equipment	Air Conditioner 1 Ton Capacity	03.07.2013	19,570.00	-	19,570.00	-18,591.50	978.50
30000000046	Plant and equipment	Bulldozer-With Coal Blade	13.07.2013	-	-	-	-	-
60000000266	Furniture and fixtures	Heavy duty Storage Racknig system	26.07.2013	-	-	-	-	-
60000000268	Furniture and fixtures	CUP BOARD WOODEN 8'x3'x2'	27.07.2013	-	-	-	-	-
60000000659	Furniture and fixtures	CUP BOARD WOODEN 8'x3'x2'	27.07.2013	19,920.00	-	19,920.00	-12,487.33	7,432.67
50000000098	Computers	HP Laserjet Pro M 175A Printer	29.07.2013	34,020.00	-	34,020.00	-32,319.00	1,701.00
70000000016	Vehicles	Ambulance	30.07.2013	10,97,600.00	-	10,97,600.00	-8,55,989.99	2,41,610.01
70000000020	Vehicles	Maruti Dzire VDI (Diesel)	16.08.2013	7,82,230.00	-	7,82,230.00	-6,13,199.14	1,69,030.86
40000000310	Office equipment	Water Cooler 150/150 FSS (Voltas)	17.08.2013	44,800.00	-	44,800.00	-42,560.00	2,240.00
50000000097	Computers	HP Laserjet Pro M 175A Printer	23.08.2013	-	-	-	-	-
40000000318	Office equipment	Cordless Phone	24.08.2013	2,440.20	-	2,440.20	-2,318.19	122.01
70000000021	Vehicles	Cultivator 7 Tin	26.08.2013	15,500.00	-	15,500.00	-12,101.42	3,398.58
30000000064	Plant and equipment	Stablizer 4KVA	29.08.2013	-	-	-	-	-
70000000015	Vehicles	Cultivator 7 Tin	30.08.2013	-	-	-	-	-
60000000308	Furniture and fixtures	Revolving Chair (High Back) Model No. 7201 R	10.09.2013	7,086.60	-	7,086.60	-4,368.23	2,718.37
60000000309	Furniture and fixtures	Visitor Chair . Model No. 7212 R	10.09.2013	3,983.36	-	3,983.36	-2,455.37	1,527.99
60000000310	Furniture and fixtures	Visitor Chair . Model No. 7212 R	10.09.2013	3,983.36	-	3,983.36	-2,455.37	1,527.99
60000000311	Furniture and fixtures	Visitor Chair . Model No. 7212 R	10.09.2013	3,983.36	-	3,983.36	-2,455.37	1,527.99
500900000000	Computers	LAN at Site Office	25.09.2013	-	-	-	-	-
60000000661	Furniture and fixtures	Office Table	09.10.2013	8,500.00	-	8,500.00	-5,182.43	3,317.57
60000000662	Furniture and fixtures	Office Table	09.10.2013	8,500.00	-	8,500.00	-5,182.43	3,317.57
60000000663	Furniture and fixtures	Office Table	09.10.2013	8,500.00	-	8,500.00	-5,182.43	3,317.57
60000000323	Furniture and fixtures	Visitor Chair with Armrest (Premier)	25.10.2013	4,854.32	-	4,854.32	-2,941.74	1,912.58
60000000324	Furniture and fixtures	Visitor Chair with Armrest (Premier)	25.10.2013	4,054.22	-	4,054.22	-2,456.89	1,597.33
60000000325	Furniture and fixtures	Visitor Chair with Armrest (Premier)	25.10.2013	4,054.22	-	4,054.22	-2,456.89	1,597.33
60000000326	Furniture and fixtures	Visitor Chair with Armrest (Premier)	25.10.2013	4,054.22	-	4,054.22	-2,456.89	1,597.33
60000000327	Furniture and fixtures	Visitor Chair with Armrest (Premier)	25.10.2013	4,054.22	-	4,054.22	-2,456.89	1,597.33

Annexure-2 --- FAR as at 31.03.2020

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GVK Power (Goindwal Sahib) Ltd
Fixed asset Register as on 31.03.2020

Asset	Grouping	Asset description	Cap.date	As on 01.04.2019	Purchase 2019-2020	As on 31.03.2020	Accumul. dep.	Curr.bk.val. 31.03.2020
60000000328	Furniture and fixtures	Visitor Chair with Armrest (Premier)	25.10.2013	4,054.22	-	4,054.22	-2,456.89	1,597.33
60000000329	Furniture and fixtures	Revolving Chair (Amigo)	25.10.2013	6,989.45	-	6,989.45	-4,235.65	2,753.80
60000000330	Furniture and fixtures	Revolving Chair (Amigo)	25.10.2013	6,989.45	-	6,989.45	-4,235.65	2,753.80
60000000331	Furniture and fixtures	Revolving Chair (Amigo)	25.10.2013	6,989.45	-	6,989.45	-4,235.65	2,753.80
60000000332	Furniture and fixtures	Office Table	25.10.2013	-	-	-	-	-
60000000333	Furniture and fixtures	Office Table	25.10.2013	-	-	-	-	-
60000000334	Furniture and fixtures	Office Table	25.10.2013	-	-	-	-	-
70000000017	Vehicles	Ambulance Material-Stretcher, Ventilator, Oxy	28.10.2013	2,86,482.30	-	2,86,482.30	-2,17,964.53	68,517.77
40000000327	Office equipment	Black Berry Phone	05.11.2013	49,758.00	-	49,758.00	-47,270.10	2,487.90
40000000333	Office equipment	Digital Scanner	09.11.2013	29,459.80	-	29,459.80	-27,986.81	1,472.99
30090000001	Plant and equipment	PLCC terminal Panel	13.12.2013	-	-	-	-	-
70000000018	Vehicles	Ambulance Material-Head Immobilizer, Scoop Stretcher	16.12.2013	12,299.16	-	12,299.16	-9,168.50	3,130.66
60000000660	Furniture and fixtures	Heavy duty Storage Racknig system	27.12.2013	34,00,000.23	-	34,00,000.23	-20,11,297.49	13,88,702.74
60000000664	Furniture and fixtures	Heavy duty Storage Racknig system	27.12.2013	99,999.28	-	99,999.28	-59,155.37	40,843.91
50000000099	Computers	Laser Printer/Copier/Scanner/Fax HP 1213NF	30.12.2013	15,300.00	-	15,300.00	-14,535.00	765.00
50000000095	Computers	Laser Printer/Copier/Scanner/Fax HP 1213NF	02.01.2014	-	-	-	-	-
70000000019	Vehicles	Ambulance Material-Patient Monitor, Capnograph/	11.01.2014	89,224.50	-	89,224.50	-65,788.43	23,436.07
30000000176	Plant and equipment	Rotary High Vacuum Pump PVD2-300	17.02.2014	42,890.49	-	42,890.49	-16,570.64	26,319.85
30000000177	Plant and equipment	PLCC System	17.02.2014	5,70,215.76	-	5,70,215.76	-2,20,301.66	3,49,914.10
30000000095	Plant and equipment	Motor Kirloskar 7.5 HP Sr NO. A20FRE0191	25.02.2014	37,565.00	-	37,565.00	-14,468.75	23,096.25
30000000096	Plant and equipment	Rotary High Vacuum Pump PVD2-300	26.02.2014	-	-	-	-	-
40000000326	Office equipment	Camera Sony Cyber Shot WX300	19.03.2014	18,200.00	-	18,200.00	-17,290.00	910.00
70000000010	Vehicles	Maruti Dzire VDI (Diesel)	31.03.2014	-	-	-	-	-
50000000102	Computers	LAN Network	01.04.2014	36,51,774.28	-	36,51,774.28	-34,69,185.57	1,82,588.71
60000000496	Furniture and fixtures	Wheel Chair Red Leaf	19.04.2014	12,075.00	-	12,075.00	-6,826.18	5,248.82
30000000063	Plant and equipment	EKG Machine (3 Channel - BPL)	28.04.2014	65,000.17	-	65,000.17	-28,148.69	36,851.48
40000000330	Office equipment	Telephone Equipment	29.04.2014	-	-	-	-	-
40000000374	Office equipment	Air Conditioner Split 01 ton	15.06.2014	24,569.50	-	24,569.50	-23,341.02	1,228.48
40000000375	Office equipment	Air Conditioner Split 01 ton	15.06.2014	24,569.50	-	24,569.50	-23,341.02	1,228.48
40000000376	Office equipment	Air Conditioner Split 01 ton	15.06.2014	24,569.50	-	24,569.50	-23,341.02	1,228.48
40000000377	Office equipment	Air Conditioner Split 01 ton	15.06.2014	24,569.50	-	24,569.50	-23,341.02	1,228.48
40000000378	Office equipment	Air Conditioner Split 01 ton	15.06.2014	24,569.50	-	24,569.50	-23,341.02	1,228.48
40000000379	Office equipment	Air Conditioner Split 01 ton	15.06.2014	24,569.50	-	24,569.50	-23,341.02	1,228.48
40000000380	Office equipment	Air Conditioner Split 01 ton	15.06.2014	24,569.50	-	24,569.50	-23,341.02	1,228.48
40000000381	Office equipment	Air Conditioner Split 01 ton	15.06.2014	24,569.50	-	24,569.50	-23,341.02	1,228.48
40000000382	Office equipment	Air Conditioner Split 01 ton	15.06.2014	24,569.50	-	24,569.50	-23,341.02	1,228.48
40000000383	Office equipment	Air Conditioner Split 01 ton	15.06.2014	24,569.50	-	24,569.50	-23,341.02	1,228.48
40000000384	Office equipment	Air Conditioner Split 01 ton	15.06.2014	24,569.50	-	24,569.50	-23,341.02	1,228.48
40000000385	Office equipment	Air Conditioner Split 01 ton	15.06.2014	24,569.50	-	24,569.50	-23,341.02	1,228.48
40000000386	Office equipment	Air Conditioner Split 01 ton	15.06.2014	24,569.50	-	24,569.50	-23,341.02	1,228.48
40000000387	Office equipment	Air Conditioner Split 01 ton	15.06.2014	24,569.50	-	24,569.50	-23,341.02	1,228.48
40000000388	Office equipment	Air Conditioner Split 01 ton	15.06.2014	24,569.50	-	24,569.50	-23,341.02	1,228.48
40000000389	Office equipment	Air Conditioner Split 01 ton	15.06.2014	24,569.50	-	24,569.50	-23,341.02	1,228.48

Annexure-2 --- FAR as at 31.03.2020

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GVK Power (Goindwal Sahib) Ltd
Fixed asset Register as on 31.03.2020

Asset	Grouping	Asset description	Cap.date	As on 01.04.2019	Purchase 2019-2020	As on 31.03.2020	Accumul. dep.	Curr.bk.val. 31.03.2020
400000000390	Office equipment	Air Conditioner Split 01 ton	15.06.2014	24,569.50	-	24,569.50	-23,341.02	1,228.48
400000000391	Office equipment	Air Conditioner Split 01 ton	15.06.2014	24,569.50	-	24,569.50	-23,341.02	1,228.48
400000000392	Office equipment	Air Conditioner Split 01 ton	15.06.2014	24,569.50	-	24,569.50	-23,341.02	1,228.48
400000000393	Office equipment	Air Conditioner Split 01 ton	15.06.2014	24,569.50	-	24,569.50	-23,341.02	1,228.48
800000000006	Computer software	PDF Converter	24.06.2014	3,54,995.70	-	3,54,995.70	-3,37,245.91	17,749.79
300000000183	Plant and equipment	Deisel Hydraulic Shunting locomotive	21.07.2014	217,47,085.00	-	217,47,085.00	-78,45,037.47	139,02,047.53
300000000162	Plant and equipment	3 HP Submersible Pump, Head-130'	12.08.2014	17,498.00	-	17,498.00	-6,245.44	11,252.56
300000000184	Plant and equipment	Deisel Hydraulic Shunting locomotive	19.08.2014	230,99,202.00	-	230,99,202.00	-82,16,565.46	148,82,636.54
300000000150	Plant and equipment	DIRECT DRIVE HIGH VACUUM PUMP MODEL 72:120 D	05.09.2014	17,926.50	-	17,926.50	-6,323.71	11,602.79
600000000665	Furniture and fixtures	Lader	10.09.2014	39,308.00	-	39,308.00	-20,748.16	18,559.84
300000000163	Plant and equipment	1 HP Submersible Pump, Head-150'	12.09.2014	12,195.75	-	12,195.75	-4,287.35	7,908.40
600000000624	Furniture and fixtures	Fixed arms chair (Rajkamal, Supreme or Cello)	23.09.2014	780.00	-	780.00	-430.60	349.40
600000000625	Furniture and fixtures	Fixed arms chair (Rajkamal, Supreme or Cello)	23.09.2014	780.00	-	780.00	-430.60	349.40
600000000626	Furniture and fixtures	Fixed arms chair (Rajkamal, Supreme or Cello)	23.09.2014	780.00	-	780.00	-430.60	349.40
600000000627	Furniture and fixtures	Fixed arms chair (Rajkamal, Supreme or Cello)	23.09.2014	780.00	-	780.00	-430.60	349.40
600000000628	Furniture and fixtures	Fixed arms chair (Rajkamal, Supreme or Cello)	23.09.2014	780.00	-	780.00	-430.60	349.40
600000000629	Furniture and fixtures	Fixed arms chair (Rajkamal, Supreme or Cello)	23.09.2014	780.00	-	780.00	-430.60	349.40
600000000630	Furniture and fixtures	Fixed arms chair (Rajkamal, Supreme or Cello)	23.09.2014	780.00	-	780.00	-430.60	349.40
600000000631	Furniture and fixtures	Fixed arms chair (Rajkamal, Supreme or Cello)	23.09.2014	780.00	-	780.00	-430.60	349.40
600000000632	Furniture and fixtures	Fixed arms chair (Rajkamal, Supreme or Cello)	23.09.2014	780.00	-	780.00	-430.60	349.40
600000000633	Furniture and fixtures	Fixed arms chair (Rajkamal, Supreme or Cello)	23.09.2014	780.00	-	780.00	-430.60	349.40
600000000634	Furniture and fixtures	Fixed arms chair (Rajkamal, Supreme or Cello)	23.09.2014	780.00	-	780.00	-430.60	349.40
600000000635	Furniture and fixtures	Fixed arms chair (Rajkamal, Supreme or Cello)	23.09.2014	780.00	-	780.00	-430.60	349.40
600000000636	Furniture and fixtures	Fixed arms chair (Rajkamal, Supreme or Cello)	23.09.2014	780.00	-	780.00	-430.60	349.40
600000000637	Furniture and fixtures	Fixed arms chair (Rajkamal, Supreme or Cello)	23.09.2014	780.00	-	780.00	-430.60	349.40
600000000638	Furniture and fixtures	Fixed arms chair (Rajkamal, Supreme or Cello)	23.09.2014	780.00	-	780.00	-430.60	349.40
600000000639	Furniture and fixtures	Fixed arms chair (Rajkamal, Supreme or Cello)	23.09.2014	780.00	-	780.00	-430.60	349.40
600000000640	Furniture and fixtures	Fixed arms chair (Rajkamal, Supreme or Cello)	23.09.2014	780.00	-	780.00	-430.60	349.40
600000000641	Furniture and fixtures	Fixed arms chair (Rajkamal, Supreme or Cello)	23.09.2014	780.00	-	780.00	-430.60	349.40
600000000642	Furniture and fixtures	Fixed arms chair (Rajkamal, Supreme or Cello)	23.09.2014	780.00	-	780.00	-430.60	349.40
600000000643	Furniture and fixtures	Fixed arms chair (Rajkamal, Supreme or Cello)	23.09.2014	780.00	-	780.00	-430.60	349.40
600000000644	Furniture and fixtures	Fixed arms chair (Rajkamal, Supreme or Cello)	23.09.2014	780.00	-	780.00	-430.60	349.40

GVK Power (Goindwal Sahib) Ltd
Fixed asset Register as on 31.03.2020

Asset	Grouping	Asset description	Cap.date	As on 01.04.2019	Purchase 2019-2020	As on 31.03.2020	Accumul. dep.	Curr.bk.val. 31.03.2020
600000000645	Furniture and fixtures	Fixed arms chair (Rajkamal, Supreme or Cello)	23.09.2014	780.00	-	780.00	-430.60	349.40
600000000646	Furniture and fixtures	Fixed arms chair (Rajkamal, Supreme or Cello)	23.09.2014	780.00	-	780.00	-430.60	349.40
600000000647	Furniture and fixtures	Fixed arms chair (Rajkamal, Supreme or Cello)	23.09.2014	780.00	-	780.00	-430.60	349.40
600000000648	Furniture and fixtures	Fixed arms chair (Rajkamal, Supreme or Cello)	23.09.2014	780.00	-	780.00	-430.60	349.40
400000000394	Office equipment	Pedestal Fan	24.09.2014	1,900.00	-	1,900.00	-1,805.00	95.00
400000000395	Office equipment	Pedestal Fan	24.09.2014	1,900.00	-	1,900.00	-1,805.00	95.00
400000000396	Office equipment	Pedestal Fan	24.09.2014	1,900.00	-	1,900.00	-1,805.00	95.00
400000000397	Office equipment	Pedestal Fan	24.09.2014	1,900.00	-	1,900.00	-1,805.00	95.00
400000000398	Office equipment	Pedestal Fan	24.09.2014	1,900.00	-	1,900.00	-1,805.00	95.00
400000000399	Office equipment	Pedestal Fan	24.09.2014	1,900.00	-	1,900.00	-1,805.00	95.00
400000000400	Office equipment	Pedestal Fan	24.09.2014	1,900.00	-	1,900.00	-1,805.00	95.00
400000000401	Office equipment	Pedestal Fan	24.09.2014	2,850.00	-	2,850.00	-2,707.50	142.50
400000000402	Office equipment	Pedestal Fan	24.09.2014	2,850.00	-	2,850.00	-2,707.50	142.50
400000000403	Office equipment	Pedestal Fan	24.09.2014	1,900.00	-	1,900.00	-1,805.00	95.00
600000000666	Furniture and fixtures	Lader	24.09.2014	8,400.00	-	8,400.00	-4,403.21	3,996.79
300000000185	Plant and equipment	Dispensary Equipments	08.10.2014	2,66,666.00	-	2,66,666.00	-1,06,778.77	1,59,887.23
400000000334	Office equipment	Black Berry 9320 Phone	10.10.2014	9,990.00	-	9,990.00	-9,490.50	499.50
300000000099	Plant and equipment	JACKING OIL PUMP COUPLED WITH AC MOTOR	01.01.2015	16,03,950.00	-	16,03,950.00	-5,32,965.49	10,70,984.51
400000000404	Office equipment	Telephone lne Analog Extension Card	14.01.2015	34,247.00	-	34,247.00	-32,534.65	1,712.35
500000000100	Computers	LENOVA ALL-IN-ONE Desktop	14.01.2015	53,790.00	-	53,790.00	-51,100.50	2,689.50
500000000101	Computers	Printer	14.01.2015	7,485.00	-	7,485.00	-7,110.75	374.25
400000000335	Office equipment	Computerized Attendance Recording System	04.03.2015	16,458.75	-	16,458.75	-15,635.81	822.94
400000000336	Office equipment	Computerized Attendance Recording System	04.03.2015	16,458.75	-	16,458.75	-15,635.81	822.94
300000000170	Plant and equipment	EMPTY REFRIGERANT GAS R 134 A CYLINDER	27.05.2015	5,500.00	-	5,500.00	-1,688.59	3,811.41
300000000171	Plant and equipment	EMPTY REFRIGERANT GAS R 134 A CYLINDER	27.05.2015	5,500.00	-	5,500.00	-1,688.59	3,811.41
400000000411	Office equipment	Kitchen Equipments	01.07.2015	31,500.00	-	31,500.00	-28,448.53	3,051.47
300000000179	Plant and equipment	Mixture cum grinder for Canteen Purpose	22.07.2015	2,500.00	-	2,500.00	-743.29	1,756.71
300000000180	Plant and equipment	Mixture cum grinder for Canteen Purpose	22.07.2015	2,250.00	-	2,250.00	-668.97	1,581.03
340000000000	Right to Use Railway Line	Right to Use Railway Line	01.10.2015	2393,73,492.00	-	2393,73,492.00	-1077,18,071.40	1316,55,420.60
600000000524	Furniture and fixtures	Lab Testing table	07.11.2015	97,000.00	-	97,000.00	-40,540.13	56,459.87
400000000413	Office equipment	Split AC 1T 5star & Installation charges	14.11.2015	65,100.00	-	65,100.00	-54,184.66	10,915.34
300000000189	Plant and equipment	Trolly	05.02.2016	18,288.00	-	18,288.00	-4,810.30	13,477.70
300000000190	Plant and equipment	Cylindrical Vertical Storage tank	09.02.2016	2,64,132.00	-	2,64,132.00	-69,291.91	1,94,840.09
300000000187	Plant and equipment	Electronic Weighing Machine	12.02.2016	9,800.00	-	9,800.00	-2,565.82	7,234.18
800000000007	Computer software	BCS Reporting & Reading Software	16.02.2016	2,15,200.00	-	2,15,200.00	-2,04,440.00	10,760.00
400000000371	Office equipment	Induction Heater	19.02.2016	1,908.90	-	1,908.90	-1,492.47	416.43
400000000372	Office equipment	Induction Heater	19.02.2016	1,908.90	-	1,908.90	-1,492.47	416.43
400000000412	Office equipment	Photo Copier	08.03.2016	15,000.00	-	15,000.00	-11,587.30	3,412.70
500000000105	Computers	LAN Network	01.04.2016	4,77,994.11	-	4,77,994.11	-4,54,094.40	23,899.71
200000000000	Buildings	Ash Pond	16.04.2016	6584,59,873.58	-	6584,59,873.58	-870,66,435.29	5713,93,438.29
200000000001	Buildings	Canteen	16.04.2016	35,00,607.03	-	35,00,607.03	-4,62,876.14	30,37,730.89
200000000002	Buildings	Car Parking	16.04.2016	14,73,660.49	-	14,73,660.49	-1,94,858.29	12,78,802.20
200000000003	Buildings	Chimney	16.04.2016	9421,73,259.19	-	9421,73,259.19	-1245,81,117.84	8175,92,141.35
200000000004	Buildings	Drain works	16.04.2016	728,43,331.27	-	728,43,331.27	-96,31,884.08	632,11,447.19
200000000005	Buildings	Duct Support Foundation	16.04.2016	29,95,679.36	-	29,95,679.36	-3,96,110.88	25,99,568.48
200000000006	Buildings	Dust Suppression System	16.04.2016	26,61,041.35	-	26,61,041.35	-3,51,862.57	23,09,178.78
200000000007	Buildings	Fire Station Building	16.04.2016	63,50,007.59	-	63,50,007.59	-8,39,644.96	55,10,362.63
200000000008	Buildings	Gas Cylinder Room	16.04.2016	5,97,990.52	-	5,97,990.52	-79,070.72	5,18,919.80
200000000009	Buildings	Green Belt and water supply net work	16.04.2016	191,74,193.51	-	191,74,193.51	-25,35,353.69	166,38,839.82
200000000010	Buildings	Guard Pond	16.04.2016	225,47,410.57	-	225,47,410.57	-29,81,385.40	195,66,025.17
200000000011	Buildings	Hydrogen Shed	16.04.2016	36,53,114.32	-	36,53,114.32	-4,83,041.81	31,70,072.51
200000000012	Buildings	Junction Tower	16.04.2016	23,03,198.61	-	23,03,198.61	-3,04,545.94	19,98,652.67
200000000014	Buildings	Plant Enabling Roads	16.04.2016	1302,85,985.17	-	1302,85,985.17	-172,27,376.70	1130,58,608.47
200000000015	Buildings	Railway Siding	16.04.2016	21039,79,961.22	-	21039,79,961.22	-2782,03,794.14	18257,76,167.08
200000000016	Buildings	Residential Colony	16.04.2016	11217,88,299.83	-	11217,88,299.83	-1483,31,147.15	9734,57,152.68

Annexure-2 --- FAR as at 31.03.2020

GVK Power (Goindwal Sahib) Ltd
Fixed asset Register as on 31.03.2020

Asset	Grouping	Asset description	Cap.date	As on 01.04.2019	Purchase 2019-2020	As on 31.03.2020	Accumul. dep.	Curr.bk.val. 31.03.2020
20000000017	Buildings	Roads	16.04.2016	766,56,710.02	-	766,56,710.02	-101,36,117.23	665,20,592.79
20000000018	Buildings	Service Building	16.04.2016	3530,02,698.54	-	3530,02,698.54	-466,76,628.05	3063,26,070.49
20000000019	Buildings	Site Office Bulding	16.04.2016	21,14,385.59	-	21,14,385.59	-2,79,579.71	18,34,805.88
20000000020	Buildings	Storage Shed	16.04.2016	453,09,498.52	-	453,09,498.52	-59,91,157.06	393,18,341.46
20000000021	Buildings	Truck parking area	16.04.2016	542,38,507.89	-	542,38,507.89	-71,71,816.72	470,66,691.17
20000000022	Buildings	Work Shop	16.04.2016	190,50,233.03	-	190,50,233.03	-25,18,962.72	165,31,270.31
20000000023	Buildings	Compound Wall & Boundary Wall	16.04.2016	965,51,600.66	-	965,51,600.66	-127,66,766.85	837,84,833.81
20000000024	Buildings	Rain Water Outlets, Water Chutes & Drainage System	16.04.2016	43,13,408.95	-	43,13,408.95	-5,70,350.84	37,43,058.11
20000000025	Buildings	Earth work	16.04.2016	12431,02,258.54	-	12431,02,258.54	-1643,72,176.19	10787,30,082.35
300000000241	Plant and equipment	Ash Handling System	16.04.2016	14818,71,707.59	-	14818,71,707.59	-3097,55,846.03	11721,15,861.56
300000000242	Plant and equipment	Boiler	16.04.2016	128946,52,256.47	-	128946,52,256.47	-26979,43,045.55	101967,09,210.92
300000000243	Plant and equipment	Chemical Labs	16.04.2016	9,93,713.68	-	9,93,713.68	-2,07,716.10	7,85,997.58
300000000244	Plant and equipment	Coal Handling System	16.04.2016	34950,70,312.57	-	34950,70,312.57	-7305,75,026.20	27644,95,286.37
300000000245	Plant and equipment	Coal Pulverisers	16.04.2016	6173,56,261.61	-	6173,56,261.61	-1290,46,063.92	4883,10,197.69
300000000246	Plant and equipment	Compressed Air System	16.04.2016	1105,92,775.88	-	1105,92,775.88	-231,17,223.11	874,75,552.77
300000000247	Plant and equipment	Construction Power Equipment	16.04.2016	901,44,950.36	-	901,44,950.36	-188,43,011.33	713,01,939.03
300000000248	Plant and equipment	Control Cable & Cabling Accessories	16.04.2016	2291,72,200.99	-	2291,72,200.99	-479,03,896.56	1812,68,304.43
300000000249	Plant and equipment	Cooling Water System	16.04.2016	26176,29,360.99	-	26176,29,360.99	-5471,63,423.91	20704,65,937.08
300000000250	Plant and equipment	Cranes/ Hoist (80T, Misc.)	16.04.2016	849,79,582.19	-	849,79,582.19	-177,63,293.71	672,16,288.48
300000000251	Plant and equipment	Storm Water Drainage	16.04.2016	293,12,801.91	-	293,12,801.91	-61,27,259.00	231,85,542.91
300000000252	Plant and equipment	Diesel Generator	16.04.2016	55,39,663.81	-	55,39,663.81	-11,57,956.69	43,81,707.12
300000000253	Plant and equipment	Dozer Shed	16.04.2016	49,21,775.25	-	49,21,775.25	-10,28,799.34	38,92,975.91
300000000254	Plant and equipment	Effluent Treatment Plant	16.04.2016	142,13,140.05	-	142,13,140.05	-29,70,974.59	112,42,165.46
300000000255	Plant and equipment	Electrical Fittings	16.04.2016	490,12,620.60	-	490,12,620.60	-102,45,114.81	387,67,505.79
300000000256	Plant and equipment	Electrical Lab Equipment	16.04.2016	345,02,344.75	-	345,02,344.75	-72,12,029.84	272,90,314.91
300000000257	Plant and equipment	Electrostatic Precipitator	16.04.2016	10502,82,068.14	-	10502,82,068.14	-2195,40,604.59	8307,41,463.55
300000000258	Plant and equipment	Emergency DG Set	16.04.2016	366,21,654.64	-	366,21,654.64	-76,55,029.47	289,66,625.17
300000000259	Plant and equipment	Field Instruments	16.04.2016	112,50,143.01	-	112,50,143.01	-23,51,618.93	88,98,524.08
300000000260	Plant and equipment	Fire Protection system	16.04.2016	2639,21,801.54	-	2639,21,801.54	-551,67,610.32	2087,54,191.22
300000000261	Plant and equipment	Fuel Oil System	16.04.2016	1729,79,764.77	-	1729,79,764.77	-361,57,983.93	1368,21,780.84
300000000262	Plant and equipment	Generator	16.04.2016	15892,75,207.74	-	15892,75,207.74	-3322,06,414.39	12570,68,793.35
300000000263	Plant and equipment	HV & AC	16.04.2016	1425,87,963.44	-	1425,87,963.44	-298,05,181.53	1127,82,781.91
300000000264	Plant and equipment	Illumination system	16.04.2016	1900,20,192.32	-	1900,20,192.32	-397,19,946.81	1503,00,245.51
300000000265	Plant and equipment	Instrumentation & Control System	16.04.2016	8931,20,359.49	-	8931,20,359.49	-1866,89,071.09	7064,31,288.40
300000000267	Plant and equipment	Plant Communication System	16.04.2016	141,16,800.44	-	141,16,800.44	-29,50,836.72	111,65,963.72
300000000268	Plant and equipment	Raw Water Supply System	16.04.2016	396,03,376.63	-	396,03,376.63	-82,78,299.26	313,25,077.37
300000000269	Plant and equipment	Sewage Treatment Plant	16.04.2016	159,64,367.40	-	159,64,367.40	-33,37,033.91	126,27,333.49
300000000270	Plant and equipment	Structural Steel Work	16.04.2016	5853,08,044.74	-	5853,08,044.74	-1223,47,020.76	4629,61,023.98
300000000271	Plant and equipment	Switch Yard	16.04.2016	10104,30,127.21	17,10,558.66	10121,40,685.87	-2112,33,050.68	8009,07,635.19
300000000272	Plant and equipment	Switchgear	16.04.2016	8612,89,378.92	-	8612,89,378.92	-1800,35,436.87	6812,53,942.05
300000000273	Plant and equipment	Transformer Yard	16.04.2016	7334,11,998.95	-	7334,11,998.95	-1533,05,210.59	5801,06,788.36
300000000274	Plant and equipment	Turbine	16.04.2016	58203,15,691.46	-	58203,15,691.46	-12166,21,386.29	46036,94,305.17
400000000373	Office equipment	RO - Water Purifier UV +UF	01.05.2016	15,000.00	-	15,000.00	-11,353.15	3,646.85
600000000667	Furniture and fixtures	Steel Cabinet (Containing 04 drawers in each)	07.07.2016	29,718.00	-	29,718.00	-10,542.56	19,175.44
400000000405	Office equipment	ULTRASONIC THICKNESS GAUGE	17.08.2016	15,750.00	-	15,750.00	-10,838.58	4,911.42

Annexure-2 --- FAR as at 31.03.2020

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GVK Power (Goindwal Sahib) Ltd
Fixed asset Register as on 31.03.2020

Asset	Grouping	Asset description	Cap.date	As on 01.04.2019	Purchase 2019-2020	As on 31.03.2020	Accumul. dep.	Curr.bk.val. 31.03.2020
50000000103	Computers	Apple Mackbook Air (Model MJVE2HN/A)	28.02.2017	67,900.00	-	67,900.00	-64,505.00	3,395.00
40000000417	Office equipment	Air Conditioner split AC 1.5 T	12.06.2017	54,250.00	-	54,250.00	-28,889.24	25,360.76
40000000418	Office equipment	Air Conditioner split AC 1.5 T	12.06.2017	54,250.00	-	54,250.00	-28,889.24	25,360.76
40000000419	Office equipment	Air Conditioner split AC 1.5 T	12.06.2017	54,800.00	-	54,800.00	-29,182.13	25,617.87
40000000421	Office equipment	CCTV SURVEILLANCE SYSTEM & ACCESSORIES	29.06.2017	2,66,990.00	-	2,66,990.00	-46,605.00	2,20,385.00
30000000194	Plant and equipment	Seal Oil Vacuum Pump With AC Motor	17.08.2017	1,17,318.47	-	1,17,318.47	-11,688.77	1,05,629.70
30000000302	Plant and equipment	BHEL DEDICATED SPARES	18.08.2017	1290,69,184.00	-	1290,69,184.00	-178,49,313.40	1112,19,870.60
40000000420	Office equipment	LG Refrigerator 190 Ltr (B201ATNL)	01.09.2017	13,800.00	-	13,800.00	-6,766.92	7,033.08
40000000422	Office equipment	AMPLIFIER SYSTEM	20.09.2017	20,730.24	-	20,730.24	-9,960.17	10,770.07
40000000423	Office equipment	SOUND BOX	25.09.2017	15,970.12	-	15,970.12	-7,631.52	8,338.60
40000000425	Office equipment	CORDLESS MIC	25.09.2017	5,076.36	-	5,076.36	-2,425.81	2,650.55
40000000426	Office equipment	WIRED MIC	25.09.2017	2,411.92	-	2,411.92	-1,152.56	1,259.36
40000000427	Office equipment	COLLAR MIC	25.09.2017	2,688.04	-	2,688.04	-1,284.52	1,403.52
40000000428	Office equipment	MIC STAND	25.09.2017	969.96	-	969.96	-463.50	506.46
50000000106	Computers	Black & White A3 and A4 Printer	30.10.2017	2,24,000.00	-	2,24,000.00	-1,71,600.36	52,399.64
50000000107	Computers	Black & White A4 Printer Heavy duty for serv build	30.10.2017	25,600.00	-	25,600.00	-19,611.47	5,988.53
30000000192	Plant and equipment	JOCKEY PUMP WITH AC MOTOR	30.11.2017	3,21,618.00	3,66,900.00	6,88,518.00	-1,96,697.89	4,91,820.11
30000000238	Plant and equipment	Filtration machine for maintaining NAS value of	07.02.2018	2,25,675.00	-	2,25,675.00	-38,326.11	1,87,348.89
30000000239	Plant and equipment	Filtration machine for maintaining NAS value of	07.02.2018	2,25,675.00	-	2,25,675.00	-38,326.11	1,87,348.89
30000000240	Plant and equipment	Filtration machine for maintaining NAS value of	07.02.2018	2,25,675.00	-	2,25,675.00	-38,326.11	1,87,348.89
40000000450	Office equipment	WATER PURIFIER RO 50 LPH	27.02.2018	37,500.40	-	37,500.40	-14,894.34	22,606.06
50000000108	Computers	Black & White A4 Printer	14.03.2018	38,359.92	-	38,359.92	-24,893.66	13,466.26
30000000197	Plant and equipment	Dewatering Pump	29.03.2018	1,26,626.08	-	1,26,626.08	-80,526.09	46,099.99
40000000453	Office equipment	WATER PURIFIER RO 50 LPH	19.06.2018	37,500.40	-	37,500.40	-12,708.02	24,792.38
50000000116	Computers	Black & White A3 and A4 Printer	19.06.2018	2,06,500.00	-	2,06,500.00	-1,16,630.07	89,869.93
31000000001	Plant and equipment	Elect. Operated Dewatering pump(5.5KW Motor)	27.06.2018	30,387.84	-	30,387.84	-3,390.39	26,997.45
40000000481	Office equipment	Phone-Beetel M71 CLI Corded, Nos.20	10.07.2018	23,600.00	-	23,600.00	-22,420.00	1,180.00
40000000487	Office equipment	Phone-Beetel M71 CLI Corded, Nos.30	10.07.2018	35,400.00	-	35,400.00	-33,630.00	1,770.00
40000000488	Office equipment	Biometric Attendance Machine	12.07.2018	26,550.00	-	26,550.00	-8,679.30	17,870.70
40000000489	Office equipment	Biometric Attendance Machine	12.07.2018	26,550.00	-	26,550.00	-8,679.30	17,870.70
40000000490	Office equipment	Biometric Attendance Machine	12.07.2018	26,550.00	-	26,550.00	-8,679.30	17,870.70
40000000491	Office equipment	Biometric Attendance Machine	12.07.2018	1,74,050.00	-	1,74,050.00	-56,897.66	1,17,152.34
30000000289	Plant and equipment	Drive Motor for Chem.Un-loading pump	17.07.2018	67,883.04	-	67,883.04	-22,014.56	45,868.48
30000000290	Plant and equipment	Drive Motor for Chem.Un-loading pump	17.07.2018	67,883.04	-	67,883.04	-22,014.56	45,868.48
50000000158	Computers	HP 19KA 18.5" LED Monitor	11.08.2018	4,897.00	-	4,897.00	-2,540.63	2,356.37
50000000159	Computers	HP 19KA 18.5" LED Monitor	11.08.2018	4,897.00	-	4,897.00	-2,540.63	2,356.37
50000000160	Computers	HP 19KA 18.5" LED Monitor	11.08.2018	4,897.00	-	4,897.00	-2,540.63	2,356.37
50000000161	Computers	HP 19KA 18.5" LED Monitor	11.08.2018	4,897.00	-	4,897.00	-2,540.63	2,356.37
50000000162	Computers	HP 19KA 18.5" LED Monitor	11.08.2018	4,897.00	-	4,897.00	-2,540.63	2,356.37
60000000720	Furniture and fixtures	TWO SEATER SOFA	17.08.2018	17,589.30	-	17,589.30	-2,710.19	14,879.11
60000000721	Furniture and fixtures	TWO SEATER SOFA	17.08.2018	17,589.30	-	17,589.30	-2,710.19	14,879.11
30000000202	Plant and equipment	SEAL OIL VACUUM PUMP WITH AC MOTOR	30.08.2018	1,46,188.95	-	1,46,188.95	-8,812.19	1,37,376.76
30000000214	Plant and equipment	GLUING M/C WITH MOTORISED GAR UNIT 4'-4'	05.09.2018	45,135.00	-	45,135.00	-4,487.53	40,647.47
40000000480	Office equipment	1.5Ton Air Conditioner split type	20.09.2018	1,57,463.68	1,82,814.98	3,40,278.66	-1,49,590.50	1,90,688.16

Annexure-2 --- FAR as at 31.03.2020

GVK Power (Goindwal Sahib) Ltd
Fixed asset Register as on 31.03.2020

Asset	Grouping	Asset description	Cap.date	As on 01.04.2019	Purchase 2019-2020	As on 31.03.2020	Accumul. dep.	Curr.bk.val. 31.03.2020
30000000200	Plant and equipment	Flue gas Analyzer(Testo-340)	30.09.2018	3,40,704.94	-	3,40,704.94	-97,189.59	2,43,515.35
30000000212	Plant and equipment	Mains unit (Mains unit 100-240V for mains operatio	30.09.2018	18,644.00	-	18,644.00	-5,318.40	13,325.60
30000000193	Plant and equipment	Multi gas analyser pump	06.10.2018	39,200.00	-	39,200.00	-2,211.95	36,988.05
40000000514	Office equipment	CCTV SURVEILLANCE SYSTEM & ACCESSORIES - PTZ CAME	16.10.2018	3,67,857.00	-	3,67,857.00	-33,957.06	3,33,899.94
40000000517	Office equipment	Dell Ultra Sharp U2412M 24 inch LED Monitor VGA	18.10.2018	18,176.00	-	18,176.00	-1,671.54	16,504.46
30000000292	Plant and equipment	Bomb Calorimeter	31.10.2018	41,18,200.00	-	41,18,200.00	-11,08,303.52	30,09,896.48
50000000163	Computers	Dell Inspiron 13 5000 Core i7 8th Gen	09.11.2018	71,980.00	-	71,980.00	-19,034.27	52,945.73
40000000516	Office equipment	ACQUAGUARD- WATER PURIFIER RO 50 LPH	21.11.2018	37,500.40	-	37,500.40	-9,682.30	27,818.10
30000000275	Plant and equipment	ELC MACHINE,MODEL 50C,MAKE-FERROCARE	06.12.2018	1,62,840.00	-	1,62,840.00	-20,386.23	1,42,453.77
30000000276	Plant and equipment	ELC MACHINE,MODEL 100LP,MAKE-FERROCARE	06.12.2018	2,10,040.00	-	2,10,040.00	-26,295.28	1,83,744.72
30000000278	Plant and equipment	LVDH MACHINE,MODEL 1200,MAKE-FERROCARE	06.12.2018	3,69,930.00	-	3,69,930.00	-46,312.20	3,23,617.80
30000000279	Plant and equipment	TMR N2 MACHINE,MAKE-FERROCARE	06.12.2018	1,88,800.00	-	1,88,800.00	-23,636.21	1,65,163.79
30000000280	Plant and equipment	OIL CONTAMINATION CHEKING KIT, MAKE-FERROCARE	06.12.2018	80,240.00	-	80,240.00	-10,045.39	70,194.61
40000000513	Office equipment	DEEP FREEZER DOUBLE CHEST 320 LITRE VOLTAS	18.12.2018	20,099.50	-	20,099.50	-4,907.03	15,192.47
30000000195	Plant and equipment	Three bulb ORSAT Apparatus	19.12.2018	7,844.00	-	7,844.00	-3,161.55	4,682.45
40000000519	Office equipment	WIRELESS PHONE SIM BASED	21.12.2018	2,242.00	-	2,242.00	-2,129.90	112.10
40000000520	Office equipment	WIRELESS PHONE SIM BASED	21.12.2018	2,242.00	-	2,242.00	-2,129.90	112.10
40000000521	Office equipment	WIRELESS PHONE SIM BASED	21.12.2018	2,242.00	-	2,242.00	-2,129.90	112.10
40000000522	Office equipment	WIRELESS PHONE SIM BASED	21.12.2018	2,242.00	-	2,242.00	-2,129.90	112.10
40000000523	Office equipment	WIRELESS PHONE SIM BASED	21.12.2018	2,242.00	-	2,242.00	-2,129.90	112.10
40000000454	Office equipment	THERMOGRAPHY CAMERA	17.01.2019	2,52,225.00	-	2,52,225.00	-57,638.60	1,94,586.40
40000000515	Office equipment	Lawn mower machine for grass cutting	30.01.2019	31,360.00	-	31,360.00	-3,477.10	27,882.90
30000000283	Plant and equipment	Electronic Dosing Pump	31.01.2019	19,348.20	-	19,348.20	-4,280.46	15,067.74
30000000294	Plant and equipment	Muffle furnace	04.02.2019	45,141.75	-	45,141.75	-9,892.85	35,248.90
30000000296	Plant and equipment	Humidity Chamber	04.02.2019	1,67,669.19	-	1,67,669.19	-36,744.82	1,30,924.37
30000000305	Plant and equipment	Moisture Oven	04.02.2019	64,917.94	-	64,917.94	-14,226.81	50,691.13
30000000277	Plant and equipment	ELC MACHINE,MODEL 100LP,MAKE-FERROCARE	07.02.2019	3,10,930.00	-	3,10,930.00	-33,827.48	2,77,102.52
50000000157	Computers	ImageRUNNER ADVANCE 4525 Printer	08.02.2019	2,06,500.00	-	2,06,500.00	-74,707.74	1,31,792.26
60000000722	Furniture and fixtures	Godrej Chair (MB)	07.03.2019	5,068.89	-	5,068.89	-514.53	4,554.36
60000000723	Furniture and fixtures	Godrej Chair (MB)	07.03.2019	5,068.89	-	5,068.89	-514.53	4,554.36
60000000724	Furniture and fixtures	Godrej Chair (MB)	07.03.2019	5,068.89	-	5,068.89	-514.53	4,554.36
60000000725	Furniture and fixtures	Godrej Chair (MB)	07.03.2019	5,068.89	-	5,068.89	-514.53	4,554.36
60000000726	Furniture and fixtures	Godrej Chair (MB)	07.03.2019	5,068.89	-	5,068.89	-514.53	4,554.36
60000000727	Furniture and fixtures	Godrej Chair (MB)	07.03.2019	5,068.89	-	5,068.89	-514.53	4,554.36
60000000728	Furniture and fixtures	Godrej Chair (MB)	07.03.2019	5,068.89	-	5,068.89	-514.53	4,554.36
60000000729	Furniture and fixtures	Godrej Chair (MB)	07.03.2019	5,068.89	-	5,068.89	-514.53	4,554.36
60000000730	Furniture and fixtures	Godrej Chair (MB)	07.03.2019	5,068.89	-	5,068.89	-514.53	4,554.36
60000000731	Furniture and fixtures	Godrej Chair (MB)	07.03.2019	5,068.89	-	5,068.89	-514.53	4,554.36
60000000732	Furniture and fixtures	Godrej Chair (MB)	07.03.2019	5,068.89	-	5,068.89	-514.53	4,554.36
60000000733	Furniture and fixtures	Godrej Chair (MB)	07.03.2019	5,068.89	-	5,068.89	-514.53	4,554.36
60000000734	Furniture and fixtures	Godrej Chair (MB)	07.03.2019	5,068.89	-	5,068.89	-514.53	4,554.36

GVK Power (Goindwal Sahib) Ltd
Fixed asset Register as on 31.03.2020

Asset	Grouping	Asset description	Cap.date	As on 01.04.2019	Purchase 2019-2020	As on 31.03.2020	Accumul. dep.	Curr.bk.val. 31.03.2020
60000000735	Furniture and fixtures	Godrej Chair (MB)	07.03.2019	5,068.89	-	5,068.89	-514.53	4,554.36
60000000736	Furniture and fixtures	Godrej Chair (MB)	07.03.2019	5,068.89	-	5,068.89	-514.53	4,554.36
60000000737	Furniture and fixtures	Godrej Chair (MB)	07.03.2019	5,068.89	-	5,068.89	-514.53	4,554.36
60000000738	Furniture and fixtures	Godrej Chair (MB)	07.03.2019	5,068.89	-	5,068.89	-514.53	4,554.36
60000000739	Furniture and fixtures	Godrej Chair (MB)	07.03.2019	5,068.89	-	5,068.89	-514.53	4,554.36
60000000740	Furniture and fixtures	Godrej Chair (MB)	07.03.2019	5,068.89	-	5,068.89	-514.53	4,554.36
60000000741	Furniture and fixtures	Godrej Chair (MB)	07.03.2019	5,068.89	-	5,068.89	-514.53	4,554.36
60000000742	Furniture and fixtures	Godrej Chair (MB)	07.03.2019	7,933.11	-	7,933.11	-805.26	7,127.85
60000000743	Furniture and fixtures	Godrej Chair (MB)	07.03.2019	7,933.11	-	7,933.11	-805.26	7,127.85
60000000744	Furniture and fixtures	Godrej Chair (MB)	07.03.2019	7,933.11	-	7,933.11	-805.26	7,127.85
60000000745	Furniture and fixtures	Godrej Chair (MB)	07.03.2019	7,933.11	-	7,933.11	-805.26	7,127.85
60000000746	Furniture and fixtures	Godrej Chair (MB)	07.03.2019	7,933.11	-	7,933.11	-805.26	7,127.85
60000000747	Furniture and fixtures	Godrej Chair (MB)	07.03.2019	7,933.11	-	7,933.11	-805.26	7,127.85
60000000748	Furniture and fixtures	Godrej Chair (MB)	07.03.2019	7,933.11	-	7,933.11	-805.26	7,127.85
60000000749	Furniture and fixtures	Godrej Chair (MB)	07.03.2019	7,933.11	-	7,933.11	-805.26	7,127.85
60000000750	Furniture and fixtures	Godrej Chair (MB)	07.03.2019	7,933.11	-	7,933.11	-805.26	7,127.85
60000000751	Furniture and fixtures	Godrej Chair (MB)	07.03.2019	7,933.11	-	7,933.11	-805.26	7,127.85
60000000752	Furniture and fixtures	Godrej Chair (MB)	07.03.2019	7,933.11	-	7,933.11	-805.26	7,127.85
60000000753	Furniture and fixtures	Godrej Chair (MB)	07.03.2019	7,933.11	-	7,933.11	-805.26	7,127.85
60000000754	Furniture and fixtures	Godrej Chair (MB)	07.03.2019	7,933.11	-	7,933.11	-805.26	7,127.85
60000000755	Furniture and fixtures	Godrej Chair (MB)	07.03.2019	7,933.11	-	7,933.11	-805.26	7,127.85
60000000756	Furniture and fixtures	Godrej Chair (MB)	07.03.2019	7,933.11	-	7,933.11	-805.26	7,127.85
60000000757	Furniture and fixtures	Godrej Chair (MB)	07.03.2019	7,933.11	-	7,933.11	-805.26	7,127.85
60000000758	Furniture and fixtures	Godrej Chair (MB)	07.03.2019	7,933.11	-	7,933.11	-805.26	7,127.85
60000000759	Furniture and fixtures	Godrej Chair (MB)	07.03.2019	7,933.11	-	7,933.11	-805.26	7,127.85
60000000760	Furniture and fixtures	Godrej Chair (MB)	07.03.2019	7,933.11	-	7,933.11	-805.26	7,127.85
310000000000	Plant and equipment	Diesel Dewatering pump	09.03.2019	33,341.12	-	33,341.12	-2,244.66	31,096.46
300000000295	Plant and equipment	Drying Oven	30.03.2019	12,76,439.06	-	12,76,439.06	-2,43,852.32	10,32,586.74
300000000307	Plant and equipment	Pulveriser Hammer Mill Cap.5.0 Kg	30.03.2019	4,27,192.12	-	4,27,192.12	-81,611.25	3,45,580.87
300000000291	Plant and equipment	Tube Bending Machine	31.03.2019	1,91,239.66	-	1,91,239.66	-36,435.09	1,54,804.57
500000000178	Computers	Canon Digital Multifunction Printer	31.03.2019	27,499.90	-	27,499.90	-8,732.16	18,767.74
500000000171	Computers	Canon Pixma G4010 All-in- One	18.04.2019	-	15,199.99	15,199.99	-4,589.76	10,610.23
500000000172	Computers	Canon Pixma G4010 All-in- One	18.04.2019	-	15,199.99	15,199.99	-4,589.76	10,610.23
500000000164	Computers	Dell Desktop	23.04.2019	-	54,870.00	54,870.00	-16,331.07	38,538.93
400000000492	Office equipment	Water Cooler (80 Ltrs)	25.04.2019	-	26,000.00	26,000.00	-4,616.07	21,383.93
400000000493	Office equipment	Water Cooler (80 Ltrs)	25.04.2019	-	26,000.00	26,000.00	-4,616.07	21,383.93
400000000494	Office equipment	Water Cooler (80 Ltrs)	25.04.2019	-	26,000.00	26,000.00	-4,616.07	21,383.93
400000000495	Office equipment	Water Cooler (80 Ltrs)	25.04.2019	-	26,000.00	26,000.00	-4,616.07	21,383.93
400000000507	Office equipment	AIR COOLER	25.04.2019	-	7,351.00	7,351.00	-1,305.10	6,045.90
400000000508	Office equipment	AIR COOLER	25.04.2019	-	7,351.00	7,351.00	-1,305.10	6,045.90
400000000509	Office equipment	AIR COOLER	25.04.2019	-	7,351.00	7,351.00	-1,305.10	6,045.90
400000000510	Office equipment	AIR COOLER	25.04.2019	-	7,351.00	7,351.00	-1,305.10	6,045.90
400000000511	Office equipment	AIR COOLER	25.04.2019	-	7,351.00	7,351.00	-1,305.10	6,045.90
400000000512	Office equipment	AIR COOLER	25.04.2019	-	7,351.00	7,351.00	-1,305.10	6,045.90
300000000318	Plant and equipment	GLAND STEAM EXHAUSTER FAN WITH MOTOR	20.05.2019	-	78,189.75	78,189.75	-21,445.21	56,744.54
300000000319	Plant and equipment	GLAND STEAM EXHAUSTER FAN WITH MOTOR	20.05.2019	-	78,189.75	78,189.75	-21,445.21	56,744.54
300000000321	Plant and equipment	BEARING OIL EXHAUSTER FAN WITH MOTOR	20.05.2019	-	89,119.50	89,119.50	-24,442.93	64,676.57

GVK Power (Goindwal Sahib) Ltd
Fixed asset Register as on 31.03.2020

Asset	Grouping	Asset description	Cap.date	As on 01.04.2019	Purchase 2019-2020	As on 31.03.2020	Accumul. dep.	Curr.bk.val. 31.03.2020
30000000322	Plant and equipment	Online Temperature, pressure & flow rate	20.05.2019	-	12,87,903.63	12,87,903.63	-1,05,970.54	11,81,933.09
40000000455	Office equipment	2 Ton air conditioner split type	23.05.2019	-	6,51,945.03	6,51,945.03	-1,06,270.61	5,45,674.42
40000000518	Office equipment	LG REFRIGERATOR 270 LITRES	23.05.2019	-	24,400.01	24,400.01	-3,977.33	20,422.68
60000000786	Furniture and fixtures	ALMIRAH	28.05.2019	-	19,552.37	19,552.37	-1,568.20	17,984.17
60000000787	Furniture and fixtures	ALMIRAH	28.05.2019	-	19,552.37	19,552.37	-1,568.20	17,984.17
60000000788	Furniture and fixtures	DRAWERS FOR COAL TESTING LABORATORY	28.05.2019	-	18,790.79	18,790.79	-1,507.12	17,283.67
60000000789	Furniture and fixtures	DRAWERS FOR COAL TESTING LABORATORY	28.05.2019	-	18,790.79	18,790.79	-1,507.12	17,283.67
30000000308	Plant and equipment	Nitrogen Gas cylinder	31.05.2019	-	21,890.00	21,890.00	-3,477.28	18,412.72
30000000311	Plant and equipment	Oxygen gas cylinder	31.05.2019	-	21,890.00	21,890.00	-3,477.28	18,412.72
60000000770	Furniture and fixtures	S TYPE CHAIRS	06.06.2019	-	5,501.75	5,501.75	-428.41	5,073.34
60000000771	Furniture and fixtures	S TYPE CHAIRS	06.06.2019	-	5,501.75	5,501.75	-428.42	5,073.33
60000000772	Furniture and fixtures	S TYPE CHAIRS	06.06.2019	-	5,501.75	5,501.75	-428.42	5,073.33
60000000773	Furniture and fixtures	S TYPE CHAIRS	06.06.2019	-	5,501.75	5,501.75	-428.42	5,073.33
60000000774	Furniture and fixtures	S TYPE CHAIRS	06.06.2019	-	5,501.75	5,501.75	-428.42	5,073.33
60000000775	Furniture and fixtures	S TYPE CHAIRS	06.06.2019	-	5,501.75	5,501.75	-428.42	5,073.33
60000000776	Furniture and fixtures	S TYPE CHAIRS	06.06.2019	-	5,501.75	5,501.75	-428.42	5,073.33
60000000777	Furniture and fixtures	S TYPE CHAIRS	06.06.2019	-	5,501.75	5,501.75	-428.42	5,073.33
60000000778	Furniture and fixtures	S TYPE CHAIRS	06.06.2019	-	5,501.75	5,501.75	-428.42	5,073.33
60000000779	Furniture and fixtures	S TYPE CHAIRS	06.06.2019	-	5,501.75	5,501.75	-428.42	5,073.33
60000000780	Furniture and fixtures	S TYPE CHAIRS	06.06.2019	-	5,501.75	5,501.75	-428.42	5,073.33
60000000781	Furniture and fixtures	S TYPE CHAIRS	06.06.2019	-	5,501.75	5,501.75	-428.42	5,073.33
60000000782	Furniture and fixtures	OFFICE TABLE	06.06.2019	-	23,968.75	23,968.75	-1,866.42	22,102.33
60000000783	Furniture and fixtures	OFFICE TABLE	06.06.2019	-	23,968.75	23,968.75	-1,866.42	22,102.33
60000000784	Furniture and fixtures	OFFICE TABLE	06.06.2019	-	23,968.75	23,968.75	-1,866.42	22,102.33
60000000785	Furniture and fixtures	OFFICE TABLE	06.06.2019	-	23,968.75	23,968.75	-1,866.42	22,102.33
40000000456	Office equipment	2 Ton air conditioner split type	14.06.2019	-	46,501.44	46,501.44	-7,048.91	39,452.53
40000000496	Office equipment	Water Cooler (80 Ltrs)	22.06.2019	-	26,000.00	26,000.00	-3,833.22	22,166.78
30000000293	Plant and equipment	JAW Crusher	30.06.2019	-	20,25,462.38	20,25,462.38	-2,90,205.59	17,35,256.79
30000000215	Plant and equipment	LT Motors	12.07.2019	-	62,798.42	62,798.42	-2,868.82	59,929.60
40000000431	Office equipment	Walkie Talkie Set	16.07.2019	-	2,43,080.00	2,43,080.00	-32,809.16	2,10,270.84
40000000533	Office equipment	Walkie Talkie Set	16.07.2019	-	12,154.00	12,154.00	-1,640.46	10,513.54
40000000534	Office equipment	Walkie Talkie Set	16.07.2019	-	12,154.00	12,154.00	-1,640.46	10,513.54
40000000535	Office equipment	Walkie Talkie Set	16.07.2019	-	12,154.00	12,154.00	-1,640.46	10,513.54
40000000536	Office equipment	Walkie Talkie Set	16.07.2019	-	12,154.00	12,154.00	-1,640.46	10,513.54
40000000537	Office equipment	Walkie Talkie Set	16.07.2019	-	12,154.00	12,154.00	-1,640.46	10,513.54
40000000538	Office equipment	Walkie Talkie Set	16.07.2019	-	12,154.00	12,154.00	-1,640.46	10,513.54
40000000539	Office equipment	Walkie Talkie Set	16.07.2019	-	12,154.00	12,154.00	-1,640.46	10,513.54
40000000540	Office equipment	Walkie Talkie Set	16.07.2019	-	12,154.00	12,154.00	-1,640.46	10,513.54
40000000541	Office equipment	Walkie Talkie Set	16.07.2019	-	12,154.00	12,154.00	-1,640.46	10,513.54
40000000542	Office equipment	Walkie Talkie Set	16.07.2019	-	12,154.00	12,154.00	-1,640.46	10,513.54
40000000543	Office equipment	Walkie Talkie Set	16.07.2019	-	12,154.00	12,154.00	-1,640.46	10,513.54
40000000544	Office equipment	Walkie Talkie Set	16.07.2019	-	12,154.00	12,154.00	-1,640.46	10,513.54
40000000545	Office equipment	Walkie Talkie Set	16.07.2019	-	12,154.00	12,154.00	-1,640.46	10,513.54
40000000546	Office equipment	Walkie Talkie Set	16.07.2019	-	12,154.00	12,154.00	-1,640.46	10,513.54
40000000547	Office equipment	Walkie Talkie Set	16.07.2019	-	12,154.00	12,154.00	-1,640.46	10,513.54
40000000548	Office equipment	Walkie Talkie Set	16.07.2019	-	12,154.00	12,154.00	-1,640.46	10,513.54
40000000549	Office equipment	Walkie Talkie Set	16.07.2019	-	12,154.00	12,154.00	-1,640.46	10,513.54
40000000550	Office equipment	Walkie Talkie Set	16.07.2019	-	12,154.00	12,154.00	-1,640.46	10,513.54
40000000551	Office equipment	Walkie Talkie Set	16.07.2019	-	12,154.00	12,154.00	-1,640.46	10,513.54
40000000552	Office equipment	Walkie Talkie Set	16.07.2019	-	12,154.00	12,154.00	-1,640.46	10,513.54
40000000497	Office equipment	FOOD WARMER - BAIN MARIE	23.07.2019	-	42,000.00	42,000.00	-5,516.23	36,483.77
80000000010	Computer software	SONICWALL TZ 600 SECURE UPGRADE PLUS FIREWALL	26.07.2019	-	1,49,860.00	1,49,860.00	-97,511.65	52,348.35
30000000333	Plant and equipment	Mody Submersible Dewatering Pump along with starte	24.08.2019	-	2,64,558.07	2,64,558.07	-15,175.95	2,49,382.12

Annexure-2 --- FAR as at 31.03.2020

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GVK Power (Goindwal Sahib) Ltd
Fixed asset Register as on 31.03.2020

Asset	Grouping	Asset description	Cap.date	As on 01.04.2019	Purchase 2019-2020	As on 31.03.2020	Accumul. dep.	Curr.bk.val. 31.03.2020
300000000334	Plant and equipment	Mody Submersible Dewatering Pump along with starer	24.08.2019	-	2,64,558.07	2,64,558.07	-15,175.95	2,49,382.12
300000000303	Plant and equipment	RECIRCULATION PUMP FOR VACUUM PUMP	27.08.2019	-	5,13,300.00	5,13,300.00	-14,522.46	4,98,777.54
300000000098	Plant and equipment	EMERGENCY OIL PUMP	30.08.2019	-	4,28,781.84	4,28,781.84	-11,964.30	4,16,817.54
300000000331	Plant and equipment	Online Continuous Effluent Monitoring Sys-for ETP	30.08.2019	-	10,65,540.00	10,65,540.00	-59,463.54	10,06,076.46
300000000332	Plant and equipment	Online Continuous Effluent Monitoring Sys-for STP	30.08.2019	-	10,65,540.00	10,65,540.00	-59,463.54	10,06,076.46
300000000324	Plant and equipment	Hydrogen cylinders (7 M3 capacity, with PESO certi	31.08.2019	-	5,36,900.00	5,36,900.00	-59,645.78	4,77,254.22
300000000298	Plant and equipment	Bench TOP Turbidity meter	18.09.2019	-	2,48,720.19	2,48,720.19	-25,306.94	2,23,413.25
500000000165	Computers	WORK STATION,max DNA DCS,LVS	15.11.2019	-	3,08,715.28	3,08,715.28	-36,860.27	2,71,855.01
500000000167	Computers	Wide Screen,70",LCD	15.11.2019	-	12,72,180.82	12,72,180.82	-1,51,897.00	11,20,283.82
500000000169	Computers	Display Stand,Floor mounted	15.11.2019	-	8,75,068.66	8,75,068.66	-1,04,482.24	7,70,586.42
300000000348	Plant and equipment	ICS,1000 TPH,BELT CONVEYOR	22.11.2019	-	5,95,251.00	5,95,251.00	-10,120.08	5,85,130.92
300000000349	Plant and equipment	ICS,1000 TPH,BELT CONVEYOR	22.11.2019	-	5,95,251.00	5,95,251.00	-10,120.08	5,85,130.92
300000000377	Plant and equipment	MAKE-OERLIKON LEYBOLD, MODEL: SOGEVAC SV10B,	23.11.2019	-	1,06,980.76	1,06,980.76	-12,032.89	94,947.87
300000000378	Plant and equipment	MAKE-OERLIKON LEYBOLD, MODEL: SOGEVAC SV10B,	23.11.2019	-	1,06,979.97	1,06,979.97	-12,032.81	94,947.16
600000000804	Furniture and fixtures	Workstations for Accounts	25.11.2019	-	19,470.07	19,470.07	-646.87	18,823.20
600000000805	Furniture and fixtures	Workstations for Accounts	25.11.2019	-	19,470.07	19,470.07	-646.87	18,823.20
600000000806	Furniture and fixtures	Workstations for Accounts	25.11.2019	-	19,470.07	19,470.07	-646.87	18,823.20
600000000807	Furniture and fixtures	Manager Cabin	25.11.2019	-	37,351.86	37,351.86	-1,240.97	36,110.89
600000000808	Furniture and fixtures	Partition Work	25.11.2019	-	29,498.93	29,498.93	-980.07	28,518.86
300000000312	Plant and equipment	Filteration machine for maint NAS	30.11.2019	-	4,15,879.20	4,15,879.20	-11,064.54	4,04,814.66
300000000314	Plant and equipment	Filteration machine for maint NAS	30.11.2019	-	1,61,211.60	1,61,211.60	-4,289.06	1,56,922.54
300000000315	Plant and equipment	Filteration machine for maint NAS	30.11.2019	-	1,61,211.60	1,61,211.60	-4,289.06	1,56,922.54
300000000316	Plant and equipment	Filteration machine for maint NAS	30.11.2019	-	1,61,211.60	1,61,211.60	-4,289.06	1,56,922.54
300000000317	Plant and equipment	LOW VACUUM DEHYDRATOR MACHINE	30.11.2019	-	3,66,230.70	3,66,230.70	-9,743.64	3,56,487.06
300000000323	Plant and equipment	Online Temperature, pressure & flow rate	30.11.2019	-	12,05,370.00	12,05,370.00	-38,482.92	11,66,887.08
300000000361	Plant and equipment	20 KW SOLAR POWER SYSTEM	30.11.2019	-	9,36,540.00	9,36,540.00	-10,980.21	9,25,559.79
400000000526	Office equipment	Split Air Conditioners	02.12.2019	-	38,000.00	38,000.00	-2,386.94	35,613.06
400000000527	Office equipment	Split Air Conditioners	02.12.2019	-	38,000.00	38,000.00	-2,386.94	35,613.06
400000000528	Office equipment	Split Air Conditioners	02.12.2019	-	38,000.00	38,000.00	-2,386.94	35,613.06
400000000529	Office equipment	Split Air Conditioners	02.12.2019	-	38,000.00	38,000.00	-2,386.94	35,613.06
400000000531	Office equipment	UPS (3 KVA with 1 hr backup)	02.12.2019	-	18,090.58	18,090.58	-1,136.35	16,954.23
400000000532	Office equipment	Tubular Battries	02.12.2019	-	45,998.08	45,998.08	-2,889.33	43,108.75
600000000816	Furniture and fixtures	Office Table	04.12.2019	-	10,500.00	10,500.00	-648.65	9,851.35
600000000817	Furniture and fixtures	Office Table	04.12.2019	-	10,500.00	10,500.00	-648.65	9,851.35
600000000818	Furniture and fixtures	Office Table	04.12.2019	-	10,500.00	10,500.00	-648.65	9,851.35
600000000819	Furniture and fixtures	Office Execute Chair	04.12.2019	-	6,500.00	6,500.00	-401.54	6,098.46
600000000820	Furniture and fixtures	Office Execute Chair	04.12.2019	-	6,500.00	6,500.00	-401.54	6,098.46
600000000821	Furniture and fixtures	Office Visitors Chair	04.12.2019	-	3,600.00	3,600.00	-222.39	3,377.61
600000000822	Furniture and fixtures	Office Visitors Chair	04.12.2019	-	3,600.00	3,600.00	-222.39	3,377.61
600000000823	Furniture and fixtures	Office Visitors Chair	04.12.2019	-	3,600.00	3,600.00	-222.39	3,377.61

Annexure-2 --- FAR as at 31.03.2020

GVK Power (Goindwal Sahib) Ltd
Fixed asset Register as on 31.03.2020

Asset	Grouping	Asset description	Cap.date	As on 01.04.2019	Purchase 2019-2020	As on 31.03.2020	Accumul. dep.	Curr.bk.val. 31.03.2020
60000000824	Furniture and fixtures	Office Visitors Chair	04.12.2019	-	3,600.00	3,600.00	-222.39	3,377.61
60000000825	Furniture and fixtures	Office Visitors Chair	04.12.2019	-	3,600.00	3,600.00	-222.39	3,377.61
60000000826	Furniture and fixtures	Office Visitors Chair	04.12.2019	-	3,600.00	3,600.00	-222.39	3,377.61
60000000827	Furniture and fixtures	Office Visitors Chair	04.12.2019	-	3,600.00	3,600.00	-222.39	3,377.61
60000000828	Furniture and fixtures	Office Almira	04.12.2019	-	15,000.00	15,000.00	-926.64	14,073.36
60000000829	Furniture and fixtures	Office Almira	04.12.2019	-	15,000.00	15,000.00	-926.64	14,073.36
30000000340	Plant and equipment	Hilti - Machine (Demolition Hammer)	12.12.2019	-	1,16,713.34	1,16,713.34	-2,802.24	1,13,911.10
30000000341	Plant and equipment	Hilti - Machine (Demolition Hammer)	12.12.2019	-	1,16,713.34	1,16,713.34	-2,802.24	1,13,911.10
30000000342	Plant and equipment	Hilti - Machine (Demolition Hammer)	12.12.2019	-	1,16,713.34	1,16,713.34	-2,802.24	1,13,911.10
30000000343	Plant and equipment	Hilti - Machine (Demolition Hammer)	12.12.2019	-	1,16,713.34	1,16,713.34	-2,802.24	1,13,911.10
40000000575	Office equipment	Sign wave (Invertor cum UPS)	16.12.2019	-	22,100.00	22,100.00	-1,227.58	20,872.42
30090000008	Plant and equipment	Erection and Commissioning Expense	30.12.2019	-	-	-	-	-
50000000180	Computers	Laptop	07.01.2020	-	83,780.00	83,780.00	-3,696.85	80,083.15
60000000814	Furniture and fixtures	STEEL SOFA 3SEATER	22.01.2020	-	5,192.00	5,192.00	-62.89	5,129.11
60000000815	Furniture and fixtures	STEEL SOFA 3SEATER	22.01.2020	-	5,192.00	5,192.00	-62.89	5,129.11
40000000530	Office equipment	Telephone EPABX (2/10)	27.01.2020	-	37,288.00	37,288.00	-1,258.22	36,029.78
40000000570	Office equipment	1.5 TR Split AC	27.01.2020	-	41,000.00	41,000.00	-1,383.47	39,616.53
40000000571	Office equipment	V.Gurd AC Stebilizer VND 400	27.01.2020	-	3,500.00	3,500.00	-118.10	3,381.90
60000000809	Furniture and fixtures	Office Table	27.01.2020	-	10,500.00	10,500.00	-177.15	10,322.85
60000000810	Furniture and fixtures	Office Table	27.01.2020	-	10,500.00	10,500.00	-177.15	10,322.85
60000000811	Furniture and fixtures	Office Chair	27.01.2020	-	6,500.00	6,500.00	-109.67	6,390.33
60000000812	Furniture and fixtures	Office Chair	27.01.2020	-	6,500.00	6,500.00	-109.67	6,390.33
60000000813	Furniture and fixtures	Office Chair	27.01.2020	-	6,500.00	6,500.00	-109.67	6,390.33
30000000216	Plant and equipment	SO2 Analyzer & auxiliaries	31.01.2020	-	20,76,800.00	20,76,800.00	-32,882.67	20,43,917.33
30000000219	Plant and equipment	NOx Analyzer & auxiliaries	31.01.2020	-	18,76,200.00	18,76,200.00	-29,706.50	18,46,493.50
30000000225	Plant and equipment	CO Analyzer & auxiliaries	31.01.2020	-	4,72,000.00	4,72,000.00	-7,473.33	4,64,526.67
30000000228	Plant and equipment	PM 2.5 Analyzer & auxiliaries	31.01.2020	-	11,80,000.00	11,80,000.00	-18,683.33	11,61,316.67
30000000231	Plant and equipment	PM 10 Analyzer & auxiliaries	31.01.2020	-	11,21,000.00	11,21,000.00	-17,749.17	11,03,250.83
30000000234	Plant and equipment	Weather Monitoring station & Auxiliaries	31.01.2020	-	3,54,000.00	3,54,000.00	-5,605.00	3,48,395.00
30000000235	Plant and equipment	Analyzer shelter	31.01.2020	-	5,60,500.00	5,60,500.00	-8,874.58	5,51,625.42
20000000027	Buildings	Coal lab building	01.02.2020	-	41,63,418.00	41,63,418.00	-25,936.05	41,37,481.95
40000000574	Office equipment	Canon Pixma G4010 All-in-One	26.02.2020	-	15,199.99	15,199.99	-276.17	14,923.82
40000000470	Office equipment	1.5 Ton air conditioner split type	07.03.2020	-	33,458.00	33,458.00	-434.22	33,023.78
40000000471	Office equipment	1.5 Ton air conditioner split type	07.03.2020	-	33,458.00	33,458.00	-434.22	33,023.78
40000000472	Office equipment	1.5 Ton air conditioner split type	07.03.2020	-	33,458.00	33,458.00	-434.22	33,023.78
40000000473	Office equipment	1.5 Ton air conditioner split type	07.03.2020	-	33,458.00	33,458.00	-434.22	33,023.78
40000000474	Office equipment	1.5 Ton air conditioner split type	07.03.2020	-	33,458.00	33,458.00	-434.22	33,023.78
40000000475	Office equipment	1.5 Ton air conditioner split type	07.03.2020	-	33,458.00	33,458.00	-434.22	33,023.78
40000000476	Office equipment	1.5 Ton air conditioner split type	07.03.2020	-	33,458.00	33,458.00	-434.22	33,023.78
40000000477	Office equipment	1.5 Ton air conditioner split type	07.03.2020	-	33,458.00	33,458.00	-434.22	33,023.78
40000000478	Office equipment	1.5 Ton air conditioner split type	07.03.2020	-	33,458.00	33,458.00	-434.22	33,023.78
40000000479	Office equipment	1.5 Ton air conditioner split type	07.03.2020	-	33,458.00	33,458.00	-434.22	33,023.78
40000000560	Office equipment	1.5 Ton air conditioner split type	07.03.2020	-	33,458.00	33,458.00	-434.22	33,023.78
40000000561	Office equipment	1.5 Ton air conditioner split type	07.03.2020	-	33,458.00	33,458.00	-434.22	33,023.78
40000000562	Office equipment	1.5 Ton air conditioner split type	07.03.2020	-	33,458.00	33,458.00	-434.22	33,023.78

GVK Power (Goindwal Sahib) Ltd
Fixed asset Register as on 31.03.2020

Asset	Grouping	Asset description	Cap.date	As on 01.04.2019	Purchase 2019-2020	As on 31.03.2020	Accumul. dep.	Curr.bk.val. 31.03.2020
400000000563	Office equipment	1.5 Ton air conditioner split type	07.03.2020	-	33,458.00	33,458.00	-434.22	33,023.78
400000000564	Office equipment	1.5 Ton air conditioner split type	07.03.2020	-	33,458.00	33,458.00	-434.22	33,023.78
300000000327	Plant and equipment	Slurry pump for high density slurry disposal	20.03.2020	-	14,84,519.00	14,84,519.00	-4,623.91	14,79,895.09
300000000409	Plant and equipment	Water Pump (Chemical Spary In Coal Yard)	21.03.2020	-	2,58,182.40	2,58,182.40	-737.16	2,57,445.24
600000000790	Furniture and fixtures	Workstations for Accounts	30.03.2020	-	19,470.00	19,470.00	-10.11	19,459.89
600000000791	Furniture and fixtures	Workstations for Accounts	30.03.2020	-	19,470.00	19,470.00	-10.11	19,459.89
600000000792	Furniture and fixtures	Workstations for Accounts	30.03.2020	-	19,470.00	19,470.00	-10.11	19,459.89
600000000793	Furniture and fixtures	Workstations for Accounts	30.03.2020	-	19,470.00	19,470.00	-10.11	19,459.89
600000000794	Furniture and fixtures	Workstations for Accounts	30.03.2020	-	19,470.00	19,470.00	-10.11	19,459.89
600000000795	Furniture and fixtures	Workstations for Accounts	30.03.2020	-	19,470.00	19,470.00	-10.11	19,459.89
600000000797	Furniture and fixtures	Partitions for Conference table	30.03.2020	-	53,690.00	53,690.00	-27.87	53,662.13
600000000798	Furniture and fixtures	Conference Table -6 Seater	30.03.2020	-	17,700.00	17,700.00	-9.19	17,690.81
				445593,82,307.10	348,78,876.62	445942,61,183.72	-84954,70,758.42	360987,90,425.30

Material Description	Amount in Lacs
Petrol- for Motor cycles etc.	0.1
Diesel - Vehicles Generators etc.	0.4
Stationary Items	0.2
Hose pipe	0.1
Hydrogen leak detector	1.0
Hydrogen	1.0
Miscellaneous expanses	0.1
Orchard maintenance	0.0
Gardening development	2.0
Horticulture tools repair/maintencnace work	0.1
Horticulture Consumables (Chemical fertilizers,FYM,Pesticides, PVC gardening pipes, Rassi,chuna powder,paint&brush)	0.2
Green belt watering pipeline repair/Maintenance	0.3
Nursery development/Maintenance works	0.1
Railway track P& way material for maintenance	30.0
Materials(Cement, sand, metal,plumbing materials, plywood and wood, tiles, toilet fixtures, doors and window, anchor fastener,steel, AR tiling material, epoxy, potasium silicate, bitumen, painting material, GSB, sheets, HSD and not limited, Etc.,)	1.0
PTW log book	0.0
SCE Log Book	0.1
Danger Tag	0.4
Caution tape (500 mtr roll)	0.1
Breathers for various equipments	1.0
BOLT, NUT & WASHER, CS, M12 X 80 LG	0.0
MS BOLT WITH NUT M16*240MM	0.0
Hose Pipe 25NB	0.1
SS COUNTER SUNK BOLT M12*90	0.0
SS COUNTER SUNK BOLT M12*65	0.0
SS COUNTER SUNK BOLT M12*70	0.0
SS COUNTER SUNK BOLT M12*75	0.0
SS BOLT M24*120	0.2
OIL SEAL 55*80*8	0.0
OIL SEAL 85*110*12	0.0
MS NIPPLE 50 MM	0.0
MS Nipple 40X100mm	0.0
COUPLING BOLT BUSH FOR SILO DRAIN PUMP	0.0
Diesel	0.3
Chemical reagents for DM Plant Online analysers and SWAS.	1.0
Lab Reagents, Refilling of O ₂ & N ₂ Cylinders, Accessories items for Chemical & Coal labs.	2.0
General Chemicals For UF Cleaning (SMBS,Citric Acid,Lime)& Others Uses.	0.3
MS BOLT WITH NUT AND WASHER M20*180	0.1
Miscellaneous	0.5
OIL SEAL 35X52X7	0.0
OIL SEAL-SIZE:40x52x7	0.0
MS FULL THREAD BOLTS M10*120	0.0
OIL SEAL 36X52X7	0.0
Boiler Preservation Chemical (Hydrazine Hydarte)	0.5
Boiler Preservation Chemical (Ammonia)	4.5
Polyelectrolyte for ETP	0.0
Culture for Town Ship STP	0.2
Culture for Plant STP	0.2
Lime	0.0
Caustic Flakes(ETP,DMP,DMCW)	0.7
JAGGERY	0.0
URIA	0.0
DAP	0.0
Sulphuric Acid	3.9

Material Description	Amount in Lacs
TCCA-90	17.1
Non oxidizing biocide CT1300	0.5
CU corrosion Inhibitor for Aux.AZ8101	0.2
Bio-Dispersant BD1500	0.2
Polymeric Dispersant GN7004	1.3
Scale Inhibitor BL5400	0.3
Corrosion Inhibitor MS6222	1.0
Corrshield-NT4201for DMCW	0.3
NH3	0.1
N2H4	1.4
TSP	0.1
Caustic Soda Lye	2.5
Hydrochloric Acid	0.5
DWPE	1.6
Polyelectrolyte	1.7
Alum	5.4
Sodium Hypo Chlorite	3.4
IT SPARE, LAPTOP BATTERIES	0.5
STACKER UPS SEALED BATTERY	0.6
Diesel for ash pond pipe laying	1.4
DG for ash pond pipe laying	0.4
Painting of fire extinguishers	0.1
CO2 Gas Cartridge (120 gm) Refiling	0.0
CO2 Gas Cartridge (60 gm) Refiling	0.0
CO2 (4.5 KG) Fire extinguisher Refiling and Hydro Testing	0.2
Identification plastic stickers for fire extinguishers	0.1
BEARINGS	2.0
Hose pipe Wire embeded	0.1
Petrol- for Motor cycles etc.	0.1
Diesel - Vehicles Generators etc.	0.4
Stationary Items	0.2
Hydrogen	1.0
Miscellaneous expances	0.1
Orchard maintenance	0.0
Gardening development	2.0
Horticulture tools repair/maintencnace work	0.1
Horticulture Consumables (Chemical fertilizers,FYM,Pesticides, PVC gardening pipes, Rassi,chuna powder,paint&brush)	0.2
Green belt watering pipeline repair/Maintenance	0.3
Nursery development/Maintenance works	0.1
Railway track P& way material for maintenance	30.0
Materials(Cement, sand, metal,plumbing materials, plywood and wood, tiles, toilet fixtures, doors and window, anchor fastener,steel, AR tiling material, epoxy, potasium silicate, bitumen, painting material, GSB, sheets, HSD and not limited, Etc.,)	1.0
Loto Lock Long Neck	0.5
Safety shoes	0.7
Stock protection Chemical for coal preservation	10.5
GENERAL FASTENERS	4.0
special tools for removing FD/PA fan rotor bearings	3.0
special tools for blade angle setting of PA/FD fan	1.5
Regular consumables	5.0
Enamel paints for structures	12.0
Diesel	0.3
Chemical reagents for DM Plant Online analysers and SWAS.	1.0
Lab Reagents, Refilling of O ₂ & N ₂ Cylinders, Accessories items for Chemical & Coal labs.	2.0
General Chemicals For UF Cleaning (SMBS,Citric Acid,Lime)& Others Uses.	0.3
Miscellaneous	0.5

Material Description	Amount in Lacs
Preservation & cleaning chemicals for Cooling water cycle system..	0.5
Polyelectrolyte for ETP	0.0
Culture for Town Ship STP	0.2
Culture for Plant STP	0.2
Lime	0.0
Caustic Flakes(ETP,DMP,DMCW)	0.7
JAGGERY	0.0
URIA	0.0
DAP	0.0
Sulphuric Acid	3.9
TCCA-90	17.1
Non oxidizing biocide CT1300	0.5
CU corrosion Inhibitor for Aux.AZ8101	0.2
Bio-Dispersant BD1500	0.2
Polymeric Dispersant GN7004	1.3
Scale Inhibitor BL5400	0.3
Corrosion Inhibitor MS6222	1.0
Corrshield-NT4201for DMCW	0.3
NH3	0.1
N2H4	1.4
TSP	0.1
Caustic Soda Lye	2.5
Hydrochloric Acid	0.5
DWPE	1.6
Polyelectrolyte	1.7
Alum	5.4
belzona	1.0
Sodium Hypo Chlorite	3.4
DUST SEAL OF BUSH FOR 50 NB BLOW VALVE	0.1
COUPLING BOLT BUSH FOR BAHF PUMP	0.0
COUPLING BOLT BUSH FOR BALP PUMP	0.0
COUPLING BOLT BUSH FOR VENT FAN	0.0
LOOSE ELECTRONIC COMPONENT	0.1
KEYBOARD	0.1
OPTICAL MOUSE	0.2
HEAVY DUTY TORCH	0.1
DIFFERENT TYPES OF METALLIC GASKET	0.1
DIFFERENT TYPES OF CARDBOARD GASKETS	0.1
SS FITTING OF DIFFERENT SIZE	1.0
BRASS FITTING OF DIFFERENT SIZE	1.0
NUT & TAIL PIECES	0.1
C&I GENERAL SS FITTING	1.0
C&I GENERAL BRASS FITTING	0.5
Spray Gun for paiting of fire tender	0.0
Hydro test/refilling of store pressure extinguishers	0.2
Hydro test of DCP & Foam Extinguishers	0.5
Red Paint (Nerolack) for fire tender , hose box , painting	0.1
Hose Reel Hose with fitted hand control nozle	2.5
Mini Foam Making Branch for 09 Ltr Extinguisher	0.0
Discharge tube washer for M/Foam 09 Ltr ext.	0.0
Washer for discharge tube of DCP 05 KG Ext.	0.0
Hydrant disc nut	0.0
Hydrant Metal Disc plate	0.0
Hydrant Disc Washer	0.0
Discharge tube for DCP 05 KG extinguisher	0.1
Discharge tube for Mechanical Foam 09 Ltrs Ext	0.1
Safety Clip for Mechanical Foam 09 Ltrs Ext.	0.0
Washer for discharge tube of CO2 4.5 KG Ext.	0.0
Safety Pin for CO2 4.5 KG Extinguisher	0.0
Discharge Horn for CO2 4.5 KG Extinguisher	0.0

Material Description	Amount in Lacs
Discharge tube for CO2 4.5 KG Extinguisher	0.1
Breathing Appratus Cylinder Refilling	0.0
Coolent Concentrate	1.2
OIL SEALS AND O-RINGS	1.2
Petrol- for Motor cycles etc.	0.1
Diesel - Vehicles Generators etc.	0.4
Hydrogen	1.0
Stationary Items	0.2
Miscellaneous expances	0.1
Orchard maintenance	0.0
Gardening development	2.0
Horticulture tools repair/maintencnace work	0.1
Horticulture Consumables (Chemical fertilizers,FYM,Pesticides, PVC gardening pipes, Rassi,chuna powder,paint&brush)	0.2
Green belt watering pipeline repair/Maintenance	0.3
Nursery development/Maintenance works	0.1
Railway track P& way material for maintenance	30.0
Materials(Cement, sand, metal,plumbing materials, plywood and wood, tiles, toilet fixtures, doors and window, anchor fastener,steel, AR tiling material, epoxy, potasium silicate, bitumen, painting material, GSB, sheets, HSD and not limited, Etc.,)	1.0
Misclaneous	0.2
Gum Boot & Rain Coat for Rainy season	0.2
Nose Mask	0.4
Ear Plug	0.1
HT fasteners	4.0
Gland ropes 6mm to 16 mm	4.0
Asbestos ropes and cloths	2.0
Regular consumables	5.0
Diesel	0.3
Chemical reagents for DM Plant Online analysers and SWAS.	1.0
Lab Reagents, Refilling of O ₂ & N ₂ Cylinders, Accessories items for Chemical & Coal labs.	2.0
General Chemicals For UF Cleaning (SMBS,Citric Acid,Lime)& Others Uses.	0.3
Miscellaneous	0.5
Lubriaction Oils and grease	15.0
Preservation & cleaning chemicals for Cooling water cycle system..	0.5
Polyelectrolyte for ETP	0.0
Culture for Town Ship STP	0.2
Culture for Plant STP	0.2
Lime	0.0
Caustic Flakes(ETP,DMP,DMCW)	0.7
JAGGERY	0.0
URIA	0.0
DAP	0.0
Sulphuric Acid	3.9
TCCA-90	17.1
Non oxidizing biocide CT1300	0.5
CU corrosion Inhibitor for Aux.AZ8101	0.2
Bio-Dispersant BD1500	0.2
Polymeric Dispersant GN7004	1.3
Scale Inhibitor BL5400	0.3
Corrosion Inhibitor MS6222	1.0
Corrshield-NT4201for DMCW	0.3
NH3	0.1
N2H4	1.4
TSP	0.1
Caustic Soda Lye	2.5

Material Description	Amount in Lacs
Hydrochloric Acid	0.5
DWPE	1.6
Polyelectrolyte	1.7
Alum	5.4
Sodium Hypo Chlorite	3.4
INTAKE JOINT FOR ASH SLURRY PUMP	0.1
DISCHARGE JOINT FOR ASH SLURRY PUMP	0.1
HDD,1 TB	0.8
Gaskets	2.0
Fasteners	1.0
Gland Packing	2.5
Fittings	1.0
BOILER AREA OXYGEN ANAL CALIBN GAS REFILLING	0.1
BOILER AREA CEMS GAS REFILLING	0.4
BLOW VALVE 80 NB SEAL KIT	0.4
BLOW VALVE 50NB SEAL KIT	0.6
Spider coupling	0.2
oil seals	0.5
GASKETS & GLAND PACKING	1.4
Carbon Brushes	2.0
LOTO Equipment	0.3
Hydrogen	1.0
Petrol- for Motor cycles etc.	0.1
Diesel - Vehicles Generators etc.	0.4
Stationary Items	0.2
Miscellaneous expences	0.1
Orchard maintenance	0.0
Gardening development	2.0
Horticulture tools repair/maintencnace work	0.1
Horticulture Consumables (Chemical fertilizers,FYM,Pesticides, PVC gardening pipes, Rassi,chuna powder,paint&brush)	0.2
Green belt watering pipeline repair/Maintenance	0.3
Nursery development/Maintenance works	0.1
Materials(Cement, sand, metal,plumbing materials, plywood and wood, tiles, toilet fixtures, doors and window, anchor fastener,steel, AR tiling material, epoxy, potasium silicate, bitumen, painting material, GSB, sheets, HSD and not limited, Etc.,)	1.0
Gaskets	1.0
Hard facing welding electrodes	2.5
Structure materials	5.0
Anthracite topup in PT plant	24.0
Diesel	0.3
Chemical reagents for DM Plant Online analysers and SWAS.	1.0
Lab Reagents, Refilling of O ₂ & N ₂ Cylinders, Accessories items for Chemical & Coal labs.	2.0
General Chemicals For UF Cleaning (SMBS,Citric Acid,Lime)& Others Uses.	0.3
Miscellaneous	0.5
Boiler Preservation Chemical (Hydrazine Hydarte)	0.5
Boiler Preservation Chemical (Ammonia)	4.5
Polyelectrolyte for ETP	0.0
Culture for Town Ship STP	0.2
Culture for Plant STP	0.2
Lime	0.0
Caustic Flakes(ETP,DMP,DMCW)	0.7
JAGGERY	0.0
URIA	0.0
DAP	0.0
Sulphuric Acid	3.9
TCCA-90	17.1

Material Description	Amount in Lacs
Non oxidizing biocide CT1300	0.5
CU corrosion Inhibitor for Aux.AZ8101	0.2
Bio-Dispersant BD1500	0.2
Polymeric Dispersant GN7004	1.3
Scale Inhibitor BL5400	0.3
Corrosion Inhibitor MS6222	1.0
Corrshield-NT4201for DMCW	0.3
NH3	0.1
N2H4	1.4
TSP	0.1
Caustic Soda Lye	2.5
Hydrochloric Acid	0.5
DWPE	1.6
Polyelectrolyte	1.7
Alum	5.4
Sodium Hypo Chlorite	3.4
SS Valve spares	1.5
Fasteners	1.0
Gland Packing	2.5
Welding Electrodes	0.5
BLOW VALVE 50NB SEAL KIT	0.6
BLOW VALVE 80 NB SEAL KIT	0.4
SPRING FOR SILO PRV	0.1
V belt	0.5
V belt	0.5
GENERAL FASTENERS	1.2
Danger tags	0.4
Hydrogen	1.0
Petrol- for Motor cycles etc.	0.1
Diesel - Vehicles Generators etc.	0.4
Stationary Items	0.2
Miscellaneous expances	0.1
Orchard maintenance	0.0
Gardening development	2.0
Horticulture tools repair/maintencnace work	0.1
Horticulture Consumables (Chemical fertilizers,FYM,Pesticides, PVC gardening pipes, Rassi,chuna powder,paint&brush)	0.2
Green belt watering pipeline repair/Maintenance	0.3
Nursery development/Maintenance works	0.1
Materials(Cement, sand, metal,plumbing materials, plywood and wood, tiles, toilet fixtures, doors and window, anchor fastener,steel, AR tiling material, epoxy, potasium silicate, bitumen, painting material, GSB, sheets, HSD and not limited, Etc.,)	1.0
Display Board at Site	0.9
Hard facing welding electrodes	2.5
Diesel	0.3
Chemical reagents for DM Plant Online analysers and SWAS.	1.0
Lab Reagents, Refilling of O ₂ & N ₂ Cylinders, Accessories items for Chemical & Coal labs.	2.0
General Chemicals For UF Cleaning (SMBS,Citric Acid,Lime)& Others Uses.	0.3
Miscellaneous	0.5
Preservation & cleaning chemicals for Cooling water cycle system..	0.5
Polyelectrolyte for ETP	0.0
Culture for Town Ship STP	0.2
Culture for Plant STP	0.2
Lime	0.0
Caustic Flakes(ETP,DMP,DMCW)	0.7
JAGGERY	0.0

Material Description	Amount in Lacs
URIA	0.0
DAP	0.0
Sulphuric Acid	3.9
TCCA-90	17.1
Non oxidizing biocide CT1300	0.5
CU corrosion Inhibitor for Aux.AZ8101	0.2
Bio-Dispersant BD1500	0.2
Polymeric Dispersant GN7004	1.3
Scale Inhibitor BL5400	0.3
Corrosion Inhibitor MS6222	1.0
Corrshield-NT4201for DMCW	0.3
NH3	0.1
N2H4	1.4
TSP	0.1
Caustic Soda Lye	2.5
Hydrochloric Acid	0.5
DWPE	1.6
Polyelectrolyte	1.7
Alum	5.4
Sodium Hypo Chlorite	3.4
Network Printer and Standlone Printer Toners	0.5
MISC SOLENOID VALVES REPAIR KITS	1.0
MAIN PLANT UPS ACDB FUSES	1.0
HIGH TEMP. CONDUITS	0.5
TEFLON WASHERS	0.0
DIFFERENT RATING RELAYS	0.4
DIFFERENT TYPES OF FUSES	0.6
C&I GENERAL BRASS FITTING	0.5
SS TUBE OF DIFFERENT SIZES	2.0
SS Shims	0.2
Hand Metal Detector	0.3
CO2 Gas Cartridge (120 gm) Refiling	0.0
CO2 Gas Cartridge (60 gm) Refiling	0.0
CO2 (4.5 KG) Fire extinguisher Refiling and Hydro Testing	0.2
WELDING RODS AND FILLER WIRES	0.6
SF6 Gas	2.7
Maintenance Consumables	4.0
Misc Cosumables	3.0
Misc consumables for Maintenance	3.0
Log sheet	0.2
Hydrogen	1.0
Petrol- for Motor cycles etc.	0.1
Diesel - Vehicles Generators etc.	0.4
Stationary Items	0.2
Miscellaneous expances	0.1
Orchard maintenance	0.0
Gardening development	2.0
Horticulture tools repair/maintenncace work	0.1
Horticulture Consumables (Chemical fertilizers,FYM,Pesticides, PVC gardening pipes, Rassi,chuna powder,paint&brush)	0.2
Nursery development/Maintenance works	0.1
Green belt watering pipeline repair/Maintenance	0.3
Materials(Cement, sand, metal,plumbing materials, plywood and wood, tiles, toilet fixtures, doors and window, anchor fastener,steel, AR tiling material, epoxy, potasium silicate, bitumen, painting material, GSB, sheets, HSD and not limited, Etc.,)	1.0
Goggle	0.3
Wind Shock Cloth	0.1
common consumables	5.0
HT fasteners	4.0

Material Description	Amount in Lacs
Diesel	0.3
Chemical reagents for DM Plant Online analysers and SWAS.	1.0
Lab Reagents, Refilling of O ₂ & N ₂ Cylinders, Accessories items for Chemical & Coal labs.	2.0
General Chemicals For UF Cleaning (SMBS,Citric Acid,Lime)& Others Uses.	0.3
Miscellaneous	0.5
Preservation & cleaning chemicals for Cooling water cycle system..	0.5
Polyelectrolyte for ETP	0.0
Culture for Town Ship STP	0.2
Culture for Plant STP	0.2
Lime	0.0
Caustic Flakes(ETP,DMP,DMCW)	0.7
JAGGERY	0.0
URIA	0.0
DAP	0.0
Sulphuric Acid	3.9
TCCA-90	17.1
Non oxidizing biocide CT1300	0.5
CU corrosion Inhibitor for Aux.AZ8101	0.2
Bio-Dispersant BD1500	0.2
Polymeric Dispersant GN7004	1.3
Scale Inhibitor BL5400	0.3
Corrosion Inhibitor MS6222	1.0
Corrshield-NT4201for DMCW	0.3
NH3	0.1
N2H4	1.4
TSP	0.1
Caustic Soda Lye	2.5
Hydrochloric Acid	0.5
DWPE	1.6
Polyelectrolyte	1.7
Alum	5.4
Sodium Hypo Chlorite	3.4
Procurement for Cooling Tower riser valves	5.0
WALKIE TALKIE BATTERY	0.5
Network Printer and Standlone Printer Toners	0.4
MCB OF DIFFERENT RATINGS	0.2
PICO FUSE 125 MA,FLAME SCAN	0.0
DOME VALVE INFLATABLE SEAL 150 NB	0.5
VACUUM DOOR SEAT FOR SILO PRV	0.1
STRUCTURAL STEEL	3.0
Hammer Set for crusher	21.3
Maintenance Consumables	2.0
Log book	0.2
Hydrogen	1.0
Miscellaneous expances	0.1
Orchard maintenance	0.0
Gardening development	2.0
Horticulture tools repair/maintencnace work	0.1
Horticulture Consumables (Chemical fertilizers,FYM,Pesticides, PVC gardening pipes, Rassi,chuna powder,paint&brush)	0.2
Nursery development/Maintenance works	0.1
Petrol- for Motor cycles etc.	0.1
Diesel - Vehicles Generators etc.	0.4
Green belt watering pipeline repair/Maintenance	0.3
Stationary Items	0.2

Material Description	Amount in Lacs
Materials(Cement, sand, metal,plumbing materials, plywood and wood, tiles, toilet fixtures, doors and window, anchor fastener,steel, AR tiling material, epoxy, potasium silicate, bitumen, painting material, GSB, sheets, HSD and not limited, Etc.,)	1.0
Safety shoes	0.7
GENERAL FASTENERS	4.0
Diesel	0.3
Chemical reagents for DM Plant Online analysers and SWAS.	1.0
Lab Reagents, Refilling of O ₂ & N ₂ Cylinders, Accessories items for Chemical & Coal labs.	2.0
General Chemicals For UF Cleaning (SMBS,Citric Acid,Lime)& Others Uses.	0.3
Miscellaneous	0.5
Boiler Preservation Chemical (Hydrazine Hydarte)	0.5
Boiler Preservation Chemical (Ammonia)	4.5
Polyelectrolyte for ETP	0.0
Culture for Town Ship STP	0.2
Culture for Plant STP	0.2
Lime	0.0
Caustic Flakes(ETP,DMP,DMCW)	0.7
JAGGERY	0.0
URIA	0.0
DAP	0.0
Sulphuric Acid	3.9
TCCA-90	17.1
Non oxidizing biocide CT1300	0.5
CU corrosion Inhibitor for Aux.AZ8101	0.2
Bio-Dispersant BD1500	0.2
Polymeric Dispersant GN7004	1.3
Scale Inhibitor BL5400	0.3
Corrosion Inhibitor MS6222	1.0
Corrshield-NT4201for DMCW	0.3
NH ₃	0.1
N ₂ H ₄	1.4
TSP	0.1
Caustic Soda Lye	2.5
Hydrochloric Acid	0.5
DWPE	1.6
Polyelectrolyte	1.7
Alum	5.4
Sodium Hypo Chlorite	3.4
Bearings for BOP area Pumps	5.0
Toners for the Engg Room,Phaser and xerox series	2.0
Printers Cartridges,Connectors,RJ-45,11.	0.3
SOLENOID VALVE REPAIR KIT	0.4
GLASS FUSE	0.1
BOILER AREA OXYGEN ANAL CALIBN GAS REFILLING	0.1
DOME VALVE INFLATABLE SEAL 200 NB	2.0
BOILER AREA CEMS GAS REFILLING	0.4
LOCAL CONSUMABLES	0.2
AFFF foam compound	4.0
PRESSURE DOOR SEAT FOR SILO PRV	0.1
PIPES AND FITTINGS	4.0
Metalising electrodes	0.8
Hard Facing electrodes	3.0
Dissimilar Material Electrode	0.2
Fastners for crusher	2.0
Maintenance Consumables	2.0
Permit book	0.1
Hydrogen	1.0

Material Description	Amount in Lacs
Miscellaneous expanses	0.1
Orchard maintenance	0.0
Gardening development	2.0
Horticulture tools repair/maintencnace work	0.1
Horticulture Consumables (Chemical fertilizers,FYM,Pesticides, PVC gardening pipes, Rassi,chuna powder,paint&brush)	0.2
Nursery development/Maintenance works	0.1
Green belt watering pipeline repair/Maintenance	0.3
Petrol- for Motor cycles etc.	0.1
Diesel - Vehicles Generators etc.	0.4
Stationary Items	0.2
Materials(Cement, sand, metal,plumbing materials, plywood and wood, tiles, toilet fixtures, doors and window, anchor fastener,steel, AR tiling material, epoxy, potasium silicate, bitumen, painting material, GSB, sheets, HSD and not limited, Etc.,)	1.0
Stock protection Chemical for coal preservation	5.3
Stock protection Chemical for coal preservation	5.3
Stock protection Chemical for coal preservation	5.3
Stock protection Chemical for coal preservation	5.3
GENERAL FASTENERS	4.0
HT fasteners	4.0
GENERAL FASTENERS	4.0
Regular consumables	5.0
Diesel	0.3
Chemical reagents for DM Plant Online analysers and SWAS.	1.0
Lab Reagents, Refilling of O ₂ & N ₂ Cylinders, Accessories items for Chemical & Coal labs.	2.0
General Chemicals For UF Cleaning (SMBS,Citric Acid,Lime)& Others Uses.	0.3
Miscellaneous	0.5
Preservation & cleaning chemicals for Cooling water cycle system..	0.5
Polyelectrolyte for ETP	0.0
Culture for Town Ship STP	0.2
Culture for Plant STP	0.2
Lime	0.0
Caustic Flakes(ETP,DMP,DMCW)	0.7
JAGGERY	0.0
URIA	0.0
DAP	0.0
Sulphuric Acid	3.9
TCCA-90	17.1
Non oxidizing biocide CT1300	0.5
CU corrosion Inhibitor for Aux.AZ8101	0.2
Bio-Dispersant BD1500	0.2
Polymeric Dispersant GN7004	1.3
Scale Inhibitor BL5400	0.3
Corrosion Inhibitor MS6222	1.0
Corrshield-NT4201for DMCW	0.3
NH3	0.1
N2H4	1.4
TSP	0.1
Caustic Soda Lye	2.5
Hydrochloric Acid	0.5
DWPE	1.6
Polyelectrolyte	1.7
Alum	5.4
Sodium Hypo Chlorite	3.4
Cleaning kit of the IT equipments	0.6
MOV LUBRICANTS	2.0

Material Description	Amount in Lacs
SS TUBES AND COPPER TUBES	0.1
DOME VALVE INFLATABLE SEAL 300 NB	1.0
CO2 Gas Cartridge (120 gm) Refiling	0.0
CO2 Gas Cartridge (60 gm) Refiling	0.0
CO2 (4.5 KG) Fire extinguisher Refiling and Hydro Testing	0.2
INSULATION MATERIALS	3.0
Fastners for VGF	2.0
Fastners for Side arm charger	1.6
Fastners for Wagon tippler	4.0
Non sparking tool	0.1
Hydrogen	1.0
Miscellaneous expances	0.1
Orchard maintenance	0.0
Gardening development	2.0
Horticulture tools repair/maintencnace work	0.1
Horticulture Consumables (Chemical fertilizers,FYM,Pesticides, PVC gardening pipes, Rassi,chuna powder,paint&brush)	0.2
Nursery development/Maintenance works	0.1
Green belt watering pipeline repair/Maintenance	0.3
Petrol- for Motor cycles etc.	0.1
Diesel - Vehicles Generators etc.	0.4
Stationary Items	0.2
Materials(Cement, sand, metal,plumbing materials, plywood and wood, tiles, toilet fixtures, doors and window, anchor fastener,steel, AR tiling material, epoxy, potasium silicate, bitumen, painting material, GSB, sheets, HSD and not limited, Etc.,)	1.0
Safety Helmet	0.3
Diesel	0.3
Chemical reagents for DM Plant Online analysers and SWAS.	1.0
Lab Reagents, Refilling of O ₂ & N ₂ Cylinders, Accessories items for Chemical & Coal labs.	2.0
General Chemicals For UF Cleaning (SMBS,Citric Acid,Lime)& Others Uses.	0.3
Miscellaneous	0.5
Preservation & cleaning chemicals for Cooling water cycle system..	0.5
Polyelectrolyte for ETP	0.0
Culture for Town Ship STP	0.2
Culture for Plant STP	0.2
Lime	0.0
Caustic Flakes(ETP,DMP,DMCW)	0.7
JAGGERY	0.0
URIA	0.0
DAP	0.0
Sulphuric Acid	3.9
TCCA-90	17.1
Non oxidizing biocide CT1300	0.5
CU corrosion Inhibitor for Aux.AZ8101	0.2
Bio-Dispersant BD1500	0.2
Polymeric Dispersant GN7004	1.3
Scale Inhibitor BL5400	0.3
Corrosion Inhibitor MS6222	1.0
Corrshield-NT4201for DMCW	0.3
NH3	0.1
N2H4	1.4
TSP	0.1
Caustic Soda Lye	2.5
Hydrochloric Acid	0.5
DWPE	1.6
Polyelectrolyte	1.7

Material Description	Amount in Lacs
Alum	5.4
Sodium Hypo Chlorite	3.4
Procurement of Thordon bushes	2.0
Mechanical Seals for BOP area pumps	3.0
belzona	1.0
BATTERY (9V, AA & AAA)	0.1
IT Spares Misc.	0.8
Network Printers and Standlone Printer Toners	0.4
DM PLANT ACTUATOR DIAPHRAGM	1.9
SS FITTING AND ACCESSORIES	2.0
Misc Consumables (Selant/cleaner/silicagel etc.	2.0
Hydrogen	1.0
Miscellaneous expances	0.1
Orchard maintenance	0.0
Gardening development	2.0
Horticulture tools repair/maintencnace work	0.1
Horticulture Consumables (Chemical fertilizers,FYM,Pesticides, PVC gardening pipes, Rassi,chuna powder,paint&brush)	0.2
Nursery development/Maintenance works	0.1
Green belt watering pipeline repair/Maintenance	0.3
Petrol- for Motor cycles etc.	0.1
Diesel - Vehicles Generators etc.	0.4
Materials(Cement, sand, metal,plumbing materials, plywood and wood, tiles, toilet fixtures, doors and window, anchor fastener,steel, AR tiling material, epoxy, potasium silicate, bitumen, painting material, GSB, sheets, HSD and not limited, Etc.,)	1.0
Celibration of gas analyser	0.1
Diesel	0.3
Chemical reagents for DM Plant Online analysers and SWAS.	1.0
Lab Reagents, Refilling of O ₂ & N ₂ Cylinders, Accessories items for Chemical & Coal labs.	2.0
General Chemicals For UF Cleaning (SMBS,Citric Acid,Lime)& Others Uses.	0.3
Miscellaneous	0.5
Boiler Preservation Chemical (Hydrazine Hydarte)	0.5
Boiler Preservation Chemical (Ammonia)	4.5
Polyelectrolyte for ETP	0.0
Culture for Town Ship STP	0.2
Culture for Plant STP	0.2
Lime	0.0
Caustic Flakes(ETP,DMP,DMCW)	0.7
JAGGERY	0.0
Bearings	5.0
URIA	0.0
DAP	0.0
Sulphuric Acid	3.9
TCCA-90	17.1
Non oxidizing biocide CT1300	0.5
CU corrosion Inhibitor for Aux.AZ8101	0.2
Bio-Dispersant BD1500	0.2
Polymeric Dispersant GN7004	1.3
Scale Inhibitor BL5400	0.3
Corrosion Inhibitor MS6222	1.0
Corrshield-NT4201for DMCW	0.3
NH ₃	0.1
N ₂ H ₄	1.4
TSP	0.1
Caustic Soda Lye	2.5
Hydrochloric Acid	0.5
DWPE	1.6

Material Description	Amount in Lacs
Polyelectrolyte	1.7
Alum	5.4
Sodium Hypo Chlorite	3.4
HT fasteners	4.0
General lubricants	30.0
HDPE, PVC, UPVC pipe and Pipe Fittings	6.5
Printers Cartridges,Connectors,RJ-45,11.	0.8
ACTUATOR REPAIR KIT	1.3
DIFFERENT TYPES OF FORGED FITTING	0.7
DIFFERENT TYPES OF VALVES & ACCESSORIES FOR BRASS, SS AND IMPULSE	0.7
Hydrogen	1.0
Miscellaneous expances	0.1
Orchard maintenance	0.0
Gardening development	2.0
Horticulture tools repair/maintencnace work	0.1
Horticulture Consumables (Chemical fertilizers,FYM,Pesticides, PVC gardening pipes, Rassi,chuna powder,paint&brush)	0.2
Nursery development/Maintenance works	0.1
Green belt watering pipeline repair/Maintenance	0.3
Materials(Cement, sand, metal,plumbing materials, plywood and wood, tiles, toilet fixtures, doors and window, anchor fastener,steel, AR tiling material, epoxy, potasium silicate, bitumen, painting material, GSB, sheets, HSD and not limited, Etc.,)	1.0
Petrol- for Motor cycles etc.	0.1
Diesel - Vehicles Generators etc.	0.4
Stationary Items	0.2
Safety shoes	0.7
Resin	5.0
Diesel	0.3
Chemical reagents for DM Plant Online analysers and SWAS.	1.0
Lab Reagents, Refilling of O ₂ & N ₂ Cylinders, Accessories items for Chemical & Coal labs.	1.5
General Chemicals For UF Cleaning (SMBS,Citric Acid,Lime)& Others Uses.	0.3
Miscellaneous	0.5
Preservation & cleaning chemicals for Cooling water cycle system..	0.5
Polyelectrolyte for ETP	0.0
Culture for Town Ship STP	0.2
Culture for Plant STP	0.2
Lime	0.0
Caustic Flakes(ETP,DMP,DMCW)	0.7
JAGGERY	0.0
URIA	0.0
DAP	0.0
Sulphuric Acid	3.9
TCCA-90	17.1
Non oxidizing biocide CT1300	0.5
CU corrosion Inhibitor for Aux.AZ8101	0.2
Bio-Dispersant BD1500	0.2
Polymeric Dispersant GN7004	1.3
Scale Inhibitor BL5400	0.3
Corrosion Inhibitor MS6222	1.0
Corrshield-NT4201for DMCW	0.3
NH3	0.1
N2H4	1.4
TSP	0.1
Caustic Soda Lye	2.5
Hydrochloric Acid	0.5

Material Description	Amount in Lacs
DWPE	1.6
Polyelectrolyte	1.7
Alum	5.4
Sodium Hypo Chlorite	3.4
General lubricants	15.0
special welding electrodes & filler wires	5.0
C&I LAB FITTING & ACCESSORIES	1.5
GENERAL CONSUMABLES	1.0
DIFFERENT TYPE CLEANING COMPONENTS	0.7
CALIBRATION GAS REFILLING	2.0
DIFFERENT RATING MCB	1.0
DIFFERENT SIZE COPPER TUBES	0.5
LOOSE ELECTRONIC COMPONENT	0.3
BOILER AREA OXYGEN ANAL CALIBN GAS REFILLING	0.1
BOILER AREA CEMS GAS REFILLING	0.4
C&I GENERAL SS FITTING	2.0
CO2 Gas Cartridge (120 gm) Refiling	0.0
CO2 Gas Cartridge (60 gm) Refiling	0.0
CO2 (4.5 KG) Fire extinguisher Refiling and Hydro Testing	0.2
Breathing Appratus set refilling	0.0
General Fastners for CHP	3.0
Temperature gun (Handheld)	0.1
Hydrogen	1.0
Miscellaneous expances	0.1
Orchard maintenance	0.0
Gardening development	2.0
Horticulture tools repair/maintencnace work	0.1
Horticulture Consumables (Chemical fertilizers,FYM,Pesticides, PVC gardening pipes, Rassi,chuna powder,paint&brush)	0.2
Nursery development/Maintenance works	0.1
Green belt watering pipeline repair/Maintenance	0.3
Materials(Cement, sand, metal,plumbing materials, plywood and wood, tiles, toilet fixtures, doors and window, anchor fastener,steel, AR tiling material, epoxy, potasium silicate, bitumen, painting material, GSB, sheets, HSD and not limited, Etc.,)	1.0
Petrol- for Motor cycles etc.	0.1
Diesel - Vehicles Generators etc.	0.4
Stationary Items	0.2
Safety week celebration	0.5
Cotton Hand Gloves	0.2
Barricading Tape(300 Mtrs)	0.1
Safety Net(10MtrsX5 Mtrs)	0.2
Multi Gas Detector	0.8
Diesel	0.3
Chemical reagents for DM Plant Online analysers and SWAS.	1.0
Lab Reagents, Refilling of O ₂ & N ₂ Cylinders, Accessories items for Chemical & Coal labs.	2.0
General Chemicals For UF Cleaning (SMBS,Citric Acid,Lime)& Others Uses.	0.3
Miscellaneous	0.5
Boiler Preservation Chemical (Hydrazine Hydarte)	0.5
Boiler Preservation Chemical (Ammonia)	4.5
Polyelectrolyte for ETP	0.0
Culture for Town Ship STP	0.2
Culture for Plant STP	0.2
Lime	0.0
Caustic Flakes(ETP,DMP,DMCW)	0.7
JAGGERY	0.0
URIA	0.0
DAP	0.0

Material Description	Amount in Lacs
Sulphuric Acid	3.9
TCCA-90	17.1
Non oxidizing biocide CT1300	0.5
CU corrosion Inhibitor for Aux.AZ8101	0.2
Bio-Dispersant BD1500	0.2
Polymeric Dispersant GN7004	1.3
Scale Inhibitor BL5400	0.3
Corrosion Inhibitor MS6222	1.0
Corrshield-NT4201for DMCW	0.3
NH3	0.1
N2H4	1.4
TSP	0.1
Caustic Soda Lye	2.5
Hydrochloric Acid	0.5
DWPE	1.6
Polyelectrolyte	1.7
Alum	5.4
Sodium Hypo Chlorite	3.4
Network Printer and Standlone Printer Toners	0.4
HYDROGEN CYLINDER REFILLING	0.1
C&I GENERAL CONSUMABLES	1.0
Miscellaneous Consumables	2.0
Spares for lab Instruments.& Apparatus.	1.5
Hard-disk internal,external,Ian card and more workstation spares	0.5
DIFFERENT SPARES FOR CONVEYOR BELT	3.0
LIMIT & LEVEL SWITCHES	4.0
SADC CYLINDER POSITIONER	0.4
MISC SPARES FOR MODIFICATIONS	2.0
MISC LOCAL FABRICATION	0.3
PNEUMATIC ACTUATOR SPARES	3.0
Oil Seal for Hydraulic Systems	45.0
Oil Seals for equipments in CHP	1.0
Spare Parts For APH Soot Blower	4.6
spares for MRHS	8.0
Coal pipe coupling spares	2.0
MS plate	2.4
Geared coupling for Coal mills	2.3
HYDRAULIC HOSE PIPES	2.0
Hoist spares	15.0
SPARE PARTS OF DIESEL FIRE PUMP	5.0
SPARES REQUIRED FOR DIESEL ENGINE IN FIRE WATER SYSTEM	1.0
Hydrant valve spares	1.5
Bearings required in BOP area Pumps	7.0
Diaphragm valves for DMP	8.5
MECH. SEAL FOR STP(P) FILTER FEED PUMP	0.4
Miscellaneous spares	0.5
Spares for CW Chemical House Sump Pump	0.8
Spares for Filtered & Fire Water Sump Pump	0.8
Spares for Raw Water Sump Pump	1.6
Spares for Centrifuge Feed Pump	4.0
Spares for Kirloskar Dewatering Pump	0.1
Spares for Colony Portable Water Pump	2.0
CPVC material for BOP area	4.5
SPARE FOR STP PLANT AND COLONY BLOWERS IN BOP AREA	0.1
SERVO SYSTEM 100	2.3
MATERIAL REQUIRED FOR MODIFICATION OF PLANT PORTABLE PIPE	1.1
Butterfly valve 700NB for IDCT	5.4
UPVC 40NB , 50NB 65NB DIAPHRAGM VALVES	0.3
BOLT NUT AND WASHER FOR BOP AREA	0.3
ANGULAR CONTACT BALL BEARING QJ211N2MA	0.1
PROCUREMENT OF CONSTANT OIL LEVELLER FOR KBL & ANTICO HO	0.1

Material Description	Amount in Lacs
PROCUREMENT OF V-BELT AUTO FK 448 FOR DM CLARIFIER	0.0
BLOW VALVE PNEUMATIC 80 NB	0.3
BLOW VALVE PNEUMATIC 50 NB	0.7
200NB MS FLANGE	0.0
250 NB CI NRV SWING TYPE FLAP FACING RI	0.1
250 NB CI NRV SWING TYPE FLAP	0.0
300 NB CI NRV SWING TYPE FLAP	0.1
300NB CI NRV SWING TYPE FLAP FACINGRING	0.1
TAC Spares	3.0
DOUBLE ACTING CYLINDER FOR FEED GATE	5.0
DOME VALVE SEAL RETAINING RING 200NB	0.4
150 NB DOME VALVE SEAL RETAINING RING	0.2
200 NB DOME VALVE TOP PLATE	0.3
Silo Blower spares	0.8
SEAT FOR KNIFE GATE VALVE; SIZE: 150NB	0.2
SEAT FOR KNIFE GATE VALVE; SIZE: 300NB	0.7
Bearing 3309 A/C3	0.3
Silo Telescopic Spout Spares	0.7
300 NB CI NRV SWING TYPE BODY SEAT RING	0.1
250 NB CI NRV SWING TYPE BODY SEAT RING	0.1
GI Socket 15 mm	0.0
Silo Drain Sump Pump	0.3
WIPER PIECE FOR FEED GATE CYLINDER	0.1
ESP Drain Sump Pump Spares	0.4
25 NB Ball Valves	0.3
Silo Blower spares	0.4
Compressor Spares for periodic maintenance	15.6
Valves for BA slurry discharge line	0.9
FILLER GAUGE AND FINE TOOLS	1.0
DIFFERENT TYPE OF CABLES SPARES	4.0
INLINE CONVEYOR SCALE SPARES	2.0
REXROTH HYDRAULIC INSTRUMENTS SPARES	10.0
REPAIR KIT FOR POWER CYLINDER	2.2
SEAL & REPAIR KITS; PNEU. CYL.	1.5
MISC SOLENOID VALVES	2.0
LIMIT SWITCH FOR HAG/CAG	3.0
AFR UNIT BIG SIZE	3.0
Stainless steel plates	12.0
Bearings	5.0
Bibby Coupling 11.5FCU	0.9
Mill hot air gate seals	8.0
SPARES REQUIRED FOR ALUM & PE DOSING PUMPS	3.5
IDCT Butterfly Valve Seat Ring & Disc Rubber Seal	2.5
Spares for DM Water Transfer Pump	1.5
SPARES FOR H2SO4 DOSING PUMPS	1.5
SPARES FOR H2SO4 DOSING /UNLOADING PUMPS	0.3
DIAPHRAGM VALVES AND DIAPHRAGMS	8.0
BEARINGS FOR MAIN CLARIFIER FLOCULATOR	0.2
DOSING PUMPS SPARES	2.9
TUBE OIL SKIMMER FOR ETP	1.5
PROCUREMENT OF PUMP SHAFT FOR THICKENER FEED PUMP	0.1
Spares for Ball Valves, Weir BDK	2.5
200NB MS FLANGE	0.1
PLUG GATE VALVE 40 NB	0.2
HIGH VELOCITY WATER SPRAY NOZZLE 3/4"	0.2
MEDIUM VELOCITY WATER SPRAY NOZZLE 1/2"	0.2
SS Strainer Meshes	3.2
Spares for ESP	8.0
Lighting Items	5.0
Spares for lab Instuments.& Apparatus.	1.5
SOV FOR TG CENTRIFUGE	0.5

Material Description	Amount in Lacs
CONTROLLER FOR TG CENTRIFUGE	1.5
DIFFERENT TEMP.ELEMENT	1.0
HYDROGEN LEAK SENSOR FOR CYLINDER STORAGE AREA.	2.0
MOV ACTUATOR SPARE	0.4
EXTRACTION SYSTEM TEMP ELEMENT	0.1
LUBE OIL DPI/DPS	1.0
WORKSTATION RELATED SPARES	2.0
SELF CLEANING SYSTEM	1.5
DCS PANEL SPARES	4.0
RTD & TC OF DIFFERENT SIZE	0.5
CONTROLLER FOR OIL PURIFICATION	1.4
HYDROGEN ANALYSER SPARES	4.0
MISC SOLENOID VALVES SPARE	2.0
MISC TOOLS AND TACKLES	1.5
LEVEL SWITCH,SIDE MOUNT,137,SBEM	0.3
LIMIT SWITCH FOR TG AREA	2.0
ISOLATOR,CURRENT-CURRENT	0.2
ACTUATOR, MARSH SPARE	1.3
SMPS,230V AC/24V DC,G31-24-24	0.1
HOOTER ELECTRONIC	0.1
CONTROLLER PRESSURE,PIC152N,SELEC	0.0
CONTROLLER AUTO STROKE,AS-SP02-1,ASI	0.2
SWITCH LEVEL,FLOAT,401,CHEMTROL SEMIL	0.2
TEMP.SWITCH FOR VACUUM SYSTEM	0.4
MODULE DIODE-DIODE,HIRECT	0.1
MOT TCV SPARES	1.5
DIFFERENT FLOW INDICATORS/METERS	2.0
VOLUME BOOSTER FOR CV	0.8
TIMER CYCLIC	0.1
TIMER DELAY	0.0
LOOP INDICATOR,PRG,SHINKO	0.1
COOLING FAN FOR UPS / DCS / PLC	2.5
DIFFERENT TEMP.ELEMENT,RTD	0.5
SELECTOR SWITCH,KAYCEE	0.0
RELAY WITH BASE, 24VDC	0.8
SAFETY BARRIER,MTL787S+	0.5
MODULE ELECTRONIC THERMOSTAT,CJC BOX	0.3
SENSORS FOR HYDROGEN MOISTURE SYSTEM.	2.0
SPARES FOR IDCT AREA	1.0
BFP VOITH HY. COUPLING RTDS	1.0
GENERATOR LLD & CONTROLLER	2.0
TEMP ELEMENT FOR TURBINE BEARING	1.5
ELEMENT,RTD,FOR BFP	0.6
NORGREN PRESSUR SWITH FOR GOVERNING VALVE	0.3
KUEBLER LEVEL SWITCH	0.5
CLOGGING INDICATAR	0.5
SWAS PANEL SPARES	4.0
DIFFERENT TYPES OF TEMPERATURE SWITCHES	1.0
DIFFERENT TYPES OF PRESSURE SWITCHES	3.0
LIMIT SWITCH ULA 201,IP67,MAKE:IL	0.4
PFT,EPT-002L,MAKE:IL	1.2
POSITIONER,HTP,INSTRUMENTATION LTD	0.4
IL PNEUMATIC VALVE SPARE	2.0
LIMITORQUE MOV SPARE	0.6
MAL DRAIN SPARE FOR MOV	0.5
TG VAC SYST SOLENOID VALVE	0.5
HONEYWELL LIMIT SW	1.0
FIRE SIREN FOR DIFFERENT USE	0.3
FIRE DAMPER SPARE	2.0
MANUAL VALVE PROXIMITY / LIMIT SWITCH	1.0
TURBIDITY METER SPARE	2.6

Material Description	Amount in Lacs
ROTAMETER	1.8
Level Switch	1.1
MOV SPARES	8.0
COAL FEEDER FILED INSTRUMENTS	1.0
RTD & TC OF DIFFERENT SIZE	2.0
NRV DIAPHRAM TYPE 25NB REPAIR KIT	0.6
SLEEVE FOR M.CHAIN OPR. KGV 300 NB	0.2
control valve spares	15.0
NRV spares	0.5
25 NB NRV	0.5
LOP spares for ID fan	3.0
FOPH pump spares	5.0
blow valve spares	1.0
coal feeder belt	4.5
BLOW VALVE PNEUMATIC 80 NB	0.8
100 NB Double Disc valve	4.0
100 NB Double Disc Spares	1.0
200 NB Double Disc Spares	2.0
200 NB DOME VALVE 200 NB DOME	1.0
Bearings	1.0
Miscellaneous spares	0.5
JOINT LINK FOR CHAIN OF CLINKER GRINDER	0.0
spares for Mody Dewatering Pump	0.4
CHAIN FOR CLINKER GRINDER	0.1
CONSUMABLES (Loctite/ Belzona/ cutting wheel)	0.6
PROCUREMENT OF MOTORIZED BFV 200 NB	4.6
Spares for DM Regeneration Feed Pump,kirloskar	3.0
Spares for Degasser Air Blower, Everest	0.8
Spares for NaOCl unloading pumps, Antico	1.3
Spares for PE Dosing tank for DM Clarifier	0.2
Spares for ID Cooling Tower like gearbox bearings, shafts, blades, fill	15.0
Painting material, Green, Red, Blue, Black colours	5.0
Consumables like V-belts, coupling spiders, fasteners, gaskets, solven	10.0
CS, GI , etc Pipe and pipe fittings	5.0
Spares for Service Water Pumps	3.0
Spares for Centrifuge Machine	1.0
NRV diaphragm type 25NB	0.5
Miscellaneous Services	5.0
Spares for ESP	5.0
Spares for lab Instuments.& Apparatus.	1.5
MULTIMETER & OTHERS	3.0
DIFFERENT CONTACTORS / RELAYS	1.0
DIFFERENT MEDIA CONVERTERS	1.0
DCS/PLC DATA BACKUP HDD,EXTERNAL HD	1.0
DCS NETWORKING ACCESSORIES	5.0
SMPS FOR DIFFERENT USE IN DCS / PLC	2.0
WASTE AND LEAK OIL TANK SPARE	0.5
DIFFERENT TYPES OF JBS	0.5
MODIFICATION FOR DIFFERENT AREA	5.0
MEGGIT SOFTWARE FOR TSI/CMC CARDS	4.0
GENERATOR END WINDING SPARE	4.0
C&I CABLES	3.0
Transponder for Fire Detection System	2.2
MOV Spares	1.3
PLC HMI	2.0
MISC LOCAL FABRICATION	0.4
CEMS ANALYSER SPARE	2.5
SADC CYLINDER	3.2
SADC SPARES	5.0
Idler Seal Kits	1.7
NRV DIAPHRAM TYPE 80NB REPAIR KIT	0.4

Material Description	Amount in Lacs
25 NB DIAPHRAM TYPE NRV RUBBER DISC	0.1
SLEEVE FOR M.CHAIN OPR. KGV 200 NB	0.2
LOP spares for PA fan	3.0
Structure materials	5.0
Bearing & Gear For Drive Speed Reducer of APH	4.5
Oil gun spares	3.0
Bearings	1.0
Spares for Feed Gate Cylinder	1.0
Spares for clinker grinder	1.0
25NB HEAVY GRADE ERW PIPE; MOC: MS	0.2
PUMP SHAFT FOR CENTRIFUGE FEED PUMP	0.0
FIRE HOSE BOXES REPAIRING & INSTALLATION WORKS	7.9
GAURD POND TO CENTRATE WATER TANK PIPE	7.7
GRAVITY SAND FILTER FOR PT PALNT	2.8
BOTTOM LATERAS OF DUEL MEDIA FILTER	0.4
Spares for Alkalie Unloading pump, kirloskar	2.0
Spares for Deagasser Water transfer Pump, kirloskar	1.5
Spares for Acid unloading Pumps, Antico	1.0
Spares for NaOCl unloading pumps, Antico	1.0
Spares for DMF Air blower, Everest	0.2
Spares for Alkalie Measuring tank for MB, CEECONS	0.1
Spares for Ebonite Lined Diaphragm valves of 40NB, 50NB, 65NB, 80	6.5
Services for Machining Works	2.0
Spares for CW ARV valves like balls, rubber material, etc	1.0
Spares for APH ESP Backwash Pumps	2.0
NECK RING FOR BA HP WATER PUMP	0.1
Lift cards	0.3
Fuses	4.0
Lighting Items	3.0
Spares for lab Instuments.& Apparatus.	1.5
DIFFERENT TYPES FIELD INSTRUMENTS	2.0
TEMPERATURE GAUGES OF DIFFERENT RANGES	2.5
IRD for Fire Detection System	2.0
MCP for Fire Detection System	0.4
LHS Cable for Fire Detection System	4.0
AIR COMPRESSOR SPARES	1.5
BOILER SOLENOID REPAIR AND SEAL KITS	3.0
PRESSURE GAUGE OF DIFFERENT RANGE	2.0
Idler Bearings	3.0
valve spares	10.0
Gates and dampers spares	25.0
SEAT RING FOR M.CHAIN OPR. KGV 300 NB	0.2
NRVs	0.5
25 NB NRV	0.5
Filter elements	5.2
Mechanical seals for various pumps	5.0
Bearings	5.0
ESP spares	20.0
BLOW VALVE PNEUMATIC 50 NB	0.8
200 NB DOME VALVE TOP PLATE	0.5
Spares for Gear Box of ART(Mixing Tank)	1.0
Spares for Silo Drain Sump Pump	1.5
Spares for Ash seal water pump	1.0
Spares for BAHP pump	1.5
Spares for BALP pump	1.0
Miscellaneous spares	0.5
CW PUMP-2B OVERHAULING.	3.0
PROCUREMENT OF AIR RELEASE VALVES FOR VARIOUS VERTICAL PU	0.5
Spares for UF fastflush cum cleaning pump, kirloskar	1.0
Spares for UF feed Pump, kirloskar	1.5
Spares for Effluent Disposal Pumps, FlowMore	3.0

Material Description	Amount in Lacs
Spares for Alkalie Measuring tank for SBA, CEECONS	0.1
Spares for Swing Check Valves, Crane	2.0
Spares fo Alum Dosing Pumps. Main Clariflocullator, Swelore	1.5
Spares fo NaOCl Dosing Pumps. Main Clariflocullator, Swelore	1.5
Spares for HRSCC Mechanism - Gearbox, V-belts, etc	2.5
Spares for Main Flocullator - Gearbox, bearings,etc	5.0
Spares for Sludge thickener- - Gearbox, bearings,etc	2.5
Spares for Modification works	5.0
Services for Modification works	3.0
Spares for Fire Hydrant Pumps	3.0
Spares for Fire Fighting System like ARVs, DVs, Valves, Hydrant valve	10.0
Spares for Coal lab Equipments	0.5
Spares for Guard pond pumps	0.3
Spares for River intake Pumps	5.0
Spares for UF Module Fittings in DM Plant	0.2
Spares & Consumables for Plant & Colony STP	2.0
Services for attending leakages in UPVC, PVC and HDPE fittings in PT	1.0
Spare gate valves, butterfly valves, ball valves, etc	5.0
Expert Services for Cooling Tower maintenance	3.5
Misc Items	10.0
Lighting Items	5.0
Fuses	4.0
Misc Consumables for CHP	3.0
Workstation Spares	0.2
FOPH FIELD SPARES	4.0
EARTHING SYSTEM	0.5
DATA CONCENTRATOR SPARES FOR EMS SYSTEM	3.0
UCP MISC C&I SPARES	1.5
ROTARY ELECT.SWITCH, MIL	0.5
LEVEL SWITCH,BCS004T,BALLUFF	0.5
MSD with Base for Fire Detection System	2.2
CONTROLLER FOR FURNACE	0.0
Bearing Housing for idlers	1.0
Idler Frames	5.0
Spares for scrapper for conveyors	18.0
SEAT FOR KNIFE GATE VALVE; SIZE: 200NB	1.3
STEM FOR M.CHAIN OPR. KGV 200 NB	0.1
STEM FOR M.CHAIN OPR. KGV 300 NB	0.1
Sail hard plate	8.0
Filter elements	5.2
Gravimetric feeder spares	5.0
coal feeder spares	8.0
valve spares	10.0
Soot blower spares	10.0
Spares for feed gate	1.0
Spares for charge pump	1.0
Spares for Ash slurry pump	1.0
THRUSTOR SET, ST520, SPEED-O CONTROLS	0.3
Spares for UF BackFlush Pump, Flowmore	2.0
Spares for UPVC ball valves, check valves, diaphragm valves, GF	5.0
Spares for butterfly valve, Wafer type, Elomatic	2.5
Spares for Centrifuge feed pump, Flowmore	2.0
Spares fo Alum Dosing Pumps. DM Clarifier, Swelore	2.0
Spares fo NaOCl Dosing Pumps. DM Clarifier, Swelore	2.0
Spares for H2SO4 unloading pumps, Kirloskar	2.0
Spares for H2SO4 Dosing pumps, Swelore	2.0
Spares for Scale inhibitor Agitator, CEECONS	0.1
Spares for Corrosion inhibitor Dosing Pumps,Milton ROY	0.5
Spares for Corrosioninhibitor Agitator, CEECONS	0.1
Spares for Bio-Dispersant Dosing Pump, Milton Roy	0.2
Spares for Bio-Dispersant Agitator, CEECONS	0.1

Material Description	Amount in Lacs
Spares for Sludge transfer Pumps, Flowmore	3.0
Spares of Jockey Pumps	5.0
Spares of Colony STP recirculation pumps	0.8
Spares of Colony STP Press Machine	0.8
Spares of Colony STP blowers	0.8
Spares of Fire Hydrant Pumps	10.0
Lighting Items	5.0
Lighting Items	5.0
Fuses	4.0
Oil for Power Transformer	5.0
Spares for lab Instruments.& Apparatus.	1.5
Fibre Port Switches,Switches	1.0
IT spares related workstations	0.5
IT spares related network	0.9
SOLENOID VALVES	1.1
pH SENSOR / CONTROLLER FOR CW / RW	0.5
SPARES DIFFERENT TYPE OF INSTRUMENTS FOR STACKER	2.0
DENSITY METER FOR SILO AREA	8.2
POWER CYLINDER SPARE BOTTOM ASH	0.3
MISC LOCAL FABRICATION	0.4
IGNITOR SPARES	4.0
Filters of PST-1000	0.4
Mill internal spares	45.0
Misc spares	8.0
Planetary gear box spares	0.0
sump pump spares	4.0
APH spares	20.0
Spares for Fluid Coupling 16.25	0.5
Spares for ESP Drain Sump Pump	1.5
Spares for RVF	0.5
Spares for Bottom ash overflow pump	1.0
Spares for Eco pump	1.0
Sky climber Spares	4.0
Miscellaneous spares	0.5
Spares for Thickener feed pump, Flowmore	2.0
Spares for Centrifuged Thckened overflow transfer pumps, Flowmor	1.0
Spares fo PE Dosing Pumps. Main Clariflocullator, Swelore	2.0
Spares for DWPE Dosing Pump for Centrfruge, Swelore	1.5
Spares for Flash mixer main Clarifier, CEECONS	0.2
Spares for Mixer for Alum Dosing tank for DM Clarifier, CEECONS	0.2
Spares for Treated ETP transfer Pumps, Flowmore	3.0
Spares of Sump pumps	5.0
Spares of Plant STP lift station pumps	0.5
Spares of Plant STP sludge pump	1.0
Spares of Plant STP recirculation pumps	0.8
Spares of Plant STP sludge pumps	0.8
Spares of Plant STP Blowers	0.8
Spares of Colony STP sludge pumps	0.8
Miscellaneous Expert Services	5.0
LT Module Items- Contactors, SFU, MCCB	6.0
Spares for lab Instruments.& Apparatus.	1.5
ANTENNA	0.4
IT Spares	0.4
LEVEL CONTROLLER	0.1
RTD & TC OF DIFFERENT SIZE	1.0
fastners for Apron feeder	0.8
Spares for SC9TU Scoop Coupling	0.5
KNIFE GATE VALVE 200NB	2.4
safety valve spares	15.0
LOP spares for FD fan	3.0
ID fan spares	25.0

Material Description	Amount in Lacs
Safety valve spares	20.0
Spares for Fluid Couplin 12.75	0.5
Spares for ESP Blower	2.0
Spares for Silo Blower	2.0
Spares for telescopic spout	2.0
Spares for Scavanger fan	1.0
Spares for Paddle Feeder	1.0
Spares for Unlined Diaphragm valve of 40NB, 50NB, 65NB, 80NB, 100NB	3.5
Spares for Safety Shower	1.0
Spares for DMP feed pump, Flowmore	4.5
Spares fo PE Dosing Pumps. DM Clarifier, Swelore	2.0
Spares for gravity filter Air Blower, Everest	1.0
Spares for Mixer for Alum Dosing tank for Main Clarifier, CEECONS	0.2
Spares for PE Dosing tank for Main Clarifier	0.2
Spares for Mixer for DWPE Dosing tank for DM Clarifier	0.2
Spares for Mixer for UF Chemical B/W atnk	0.1
Spares for Alkalie Dosing Pump, Swelore	1.5
Spares for Acid Dosing Pump, Swelore	1.5
Spares for Alum Dosing Pump, Swelore	1.5
Spares for PE Dosing Pump, Swelore	1.5
Spares for Effluent transfer Pumps, Flowmore	3.0
Spares for Battery chargers	2.0
Transformer Oil	5.0
LT Breaker Spares	8.0
WALKIE TALKIE DIFFERENT MATERIAL	3.0
Converter General Items	2.0
IT spares related printers	0.4
IT DIFFERENT SPARE	0.5
IT DIFFERENT SPARE	0.8
CCTV SPARES	2.0
MISC. SPARES DCS UTILITY (SMPS/HDD/DVD WRITER ETC.)	1.5
ISOLATOR AND OTHER PANEL SPARE	0.1
FLAP GATE ACTUATOR SPARES	4.0
Idlers for Dribble feeder	1.4
MRHS spares	8.0
Filter elements	5.2
Bearings	5.0
LOP spares for Mills	3.0
FD fan spares	25.0
Geared coupling for Coal mills	2.3
40 NB Ball Valves	0.3
50 NB Ball Vaves	0.4
25 NB Ball Valves	0.5
Valves	5.0
Spares for Gear Box of Paddle Feeder	1.0
Bag Filters	1.0
Spares for Atlas Copco Compressors	5.0
Spares for vent fan	1.0
Miscellaneous spares	0.5
Spares for Flap type check valves, Weir BDK	5.0
Spares for ETP transfer Pumps, Flowmore	3.0
Spares for SLOP transfer Pump, ROTO	1.0
Spares for tabular oil Skimmer, INC USA	0.2
Spares for Alkalie Dosing tank Agitator, CEECONS	0.1
Spares for Alum Dosing tank Agitator, CEECONS	0.1
Spares for Flash mixer	0.1
Spares for EOT cranes in BOP area	2.0
Spares of Raw water pump	3.0
Spares for Ash Water Pump	3.0
Services for attending leakages in Fire Fighting underground pipe lin	2.5
Spares of Gravity Back Wash Pump	0.5

Material Description	Amount in Lacs
Spares for VFD	5.0
Transformer Oil	2.0
HT Swgr Spares	12.0
Stacker Electrical Spares	3.0
Spares for lab Instuments.& Apparatus.	1.5
DIFFERENT LAB INSTRUMENTS	3.5
IT Spares,IO,Face plates,Gang Box,Cat-6 etc	0.7
PLC SOFTWARE ADDITION / UPGRADATION	5.0
HVAC SYSTEM SPARE	2.5
ELOMATIC ACTUATOR SPARE	2.3
CONDUCTIVITY ANALYSER	3.5
DOSING PUMP AND SPARE	1.7
FLAME SCANNER SPARES	1.5
Structure materials	5.0
Structure materials	8.0
PA fan spares	25.0
Spares for Gear Box of RVF	0.5
Spares for Gear box of ASP	0.5
Spares for Fluid Coupling PST 500	1.0
Spares for AW/AS Drain Sump Pump	0.5
Spares for Gravity Filter backWash pump, Flowmore	3.0
Spares for PE Dosing tank Agitator, CEECONS	0.1
Distribution Transformer Spares	5.0
Spares for lab Instuments & Apparatus.	1.5
IT ROUTINE SPARE	2.5
IT Spares related to network	0.9
ANALYSER PANEL LOOSE HARDWARE	1.5
I/P CONVERTOR FOR CYLINDER / CV	2.0
BFP LOCAL INSTRUMENT	2.0
LOCAL FABRICATION	0.8
BFP ADAPTER FOR RTD FIXING	0.1
PRESSURE TRANSMITTER STG	0.9
SPRAY STATION SD-1-2-19 ACTUATOR ASSEMBLY	2.0
Spares for screw compressor in CHP	3.2
Misc spares	8.0
200 NB DOME VALVE SPIGOT	0.5
Spares for Gear Box of Clinker Grinder	0.5
Miscellaneous spares	0.5
Spare Tubular Oil Skimmer	2.5
Spares for Dewatering Pumps	3.0
Expert Services for CW pumps overhauling	5.0
Spares of CSRL pipeline of various sizes.	5.0
Lighting Items	5.0
Misc Bearings	5.0
Spares for lab Instuments.& Apparatus.	1.5
IT ROUTINE SPARE	0.3
SWAS SPARES	2.0
H2 LEAK DETECTOR	2.0
DIFFERENT TYPES OF OLR FOR MOV	0.8
TG EXTRACTION CYLINDER REPAIR KIT	0.5
Special Tools (Ferrule printring machine,Punching Tools etc.)	2.0
DIFFERENT SIZE WIRE ROLL FOR INTERNAL WIRING	0.5
DIFFERENT SIZE AFR	1.0
IDCT VIBRATION SENSORS	1.5
VACUUM BREAKER VALVE SPARE	3.0
CT BASIN LEVEL SWITCH	0.2
UPS SPARE	1.0
SPARE FOR EXTRACTION NRV AND VALVES	2.0
PNEUMATIC SMART POSITIONER	4.8
GENERAL ELECTRICAL SPARES FOR C&I PANELS	1.0
GENERATOR VIBRATION MONITTORING SYSTEM SAFETY BARRIER	0.8

Material Description	Amount in Lacs
USB KEYBOARD FOR DCS	0.3
FOPH LCP ELECTRICAL SPARES	0.1
pH SENSORS , ANALYSERS ETC.	3.0
MISC SPARES FOR MODIFICATIONS	2.0
MISC LOCAL FABRICATION	0.4
EOT spares	1.5
Filter elements	5.2
APH hot end PA sector plates	3.0
Services for Maintenance of Plant & Colony STP	5.0
Total	2588.0

Annexure 4_Mega Insurance Policy

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ICICI Lombard General Insurance Company Ltd.

ICICI LOMBARD HOUSE , 414, Veer Savarkar Marg,
Near Siddhi Vinayak Temple, Prabhadevi, Mumbai - 400 025.

Attached & forming part of

Policy no.1012/115897379/06/000

ICICI Lombard General Insurance Company Ltd.

COMPREHENSIVE MEGA RISKS POLICY

INSURED: M/s. GVK Power (Goindwal Sahib) Limited

Village- Goindwal Sahib, District- Tarn Taran, State- Punjab

POLICY NO: 1012/115897379/06/000

PERIOD OF INSURANCE: 06th MAY 2019- 05th May 2020

Insurer:

ICICI Lombard General Insurance Company Ltd



ICICI Lombard General Insurance Company Ltd.

ICICI LOMBARD HOUSE , 414, Veer Savarkar Marg,
Near Siddhi Vinayak Temple, Prabhadevi, Mumbai - 400 025.

Attached & forming part of
Policy no.1012/115897379/06/000

IN CONSIDERATION OF AND SUBJECT TO**M/s. GVK Power (Goindwal Sahib) Ltd.**

(Hereinafter called the Insuring Party) named in The Schedule hereto having paid to

ICICI Lombard General Insurance Company Limited

(Hereinafter called The Insurer or Company)

the Premium mentioned in The Schedule, The Insurer agrees subject to the terms, definitions, warranties, exclusions, provisions and conditions contained or endorsed or otherwise expressed herein and covering the interest of The Insured in the property at the Premises described in The Schedule for the purpose of the business

THAT if any of the property or any part thereof used by The Insured at the Premises described in The Schedule for the purpose of the Business, is accidentally physically lost or destroyed or damaged during the Period of Insurance, the Business carried out by The Insured at the Premises be in consequences thereof interrupted or interfered with,

THEN THE INSURER WILL INDEMNIFY THE INSURED

in the manner and to the extent stated in the following Section(s) forming part of this Policy of Insurance:

<u>INSURING AGREEMENTS:</u>		YES	NO
Section I :	All Risk (Non-Marine) Property	Y	-
Section II :	All Risk Machinery Insurance	Y	-
Section III :	All Risk Operational Business Interruption (Including MLOP)	Y	-

The insurance cover provided by this Policy of Insurance is only in respect of and subject to the wording of those Sections to which The Schedule and the table of Insuring Agreements has been completed and which have been signed and dated by The Insurer.

The Insuring Party acknowledges that it has ensured and shall continue to ensure that all parties named as insured in any Section of this Policy of Insurance disclose to it all information required to be provided to The Insurer and shall at all time comply with any obligations which are placed upon The Insured by any provision of this Policy of Insurance.

The due observance and fulfilment of the terms of this Policy of Insurance insofar as they relate to anything to be done or complied with by the Insuring Party and The Insured and the truth of the statements and answers given by or on behalf of The Insured in the Proposal as well as any statements in The Schedules to any Section of this Policy of Insurance shall be a condition precedent to any liability on the part of The Insurer.

Annexure 4_Mega Insurance Policy

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ICICI Lombard General Insurance Company Ltd.

ICICI LOMBARD HOUSE , 414, Veer Savarkar Marg,
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Attached & forming part of
Policy no.1012/115897379/06/000

No alteration of the terms of this Policy of Insurance which may be agreed as between the Insuring Party and The Insurer shall require the agreement or consent of any other party constituting The Insured under any section.

This Policy of Insurance shall be construed in accordance with the laws of **INDIA**

The Language of Communication under this Policy of Insurance shall be **ENGLISH**

A.1. THE SCHEDULE

POLICY NUMBER:	1012/115897379/06/000.
The Insurer	ICICI Lombard General Insurance Company Ltd
Intermediary Detail	India Insure Risk Management and Insurance Broking Services Pvt. Ltd.
Broker Code	200214861724

Company	Share Percentage
ICICI Lombard General Insurance Company Ltd.	50%
IFFCO Tokio General Insurance Company Ltd.	20%
Bajaj Allianz General Insurance	15%
Tata AIG General Insurance Co. Ltd.	15%

PERIOD OF INSURANCE:	12 Month with effect from 06 th May- 2019	Time: 00:00 HR.
	Until 05 th May -2020	Time: Mid Night 24:00 HR.

RISK LOCATION	The capacity of the plant is 540 MW (2*270 MW). Village - Goindwal Sahib, District- Tarn Taran, State- Punjab
THE BUSINESS:	Electric Generation Stations 2 x 270 MW- Thermal Power Plant
THE PREMISES - Territorial Limits of Property:	The capacity of the plant is 540 MW (2*270 MW). Village - Goindwal Sahib, District- Tarn Taran, State- Punjab

Annexure 4_Mega Insurance Policy

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ICICI Lombard General Insurance Company Ltd.

ICICI LOMBARD HOUSE , 414, Veer Savarkar Marg,
Near Siddhi Vinayak Temple, Prabhadevi, Mumbai - 400 025.

Attached & forming part of
Policy no.1012/115897379/06/000

Geographical Limits for Inland Transit and Temporary Removal only	Within Indian Sub- Continent
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A.1.1. Limits of Liability

Unless specified differently, all amounts are stated in Currency [INR]

Basic Cover	Sum Insured (INR)
Material Damage	3060,00,00,000/-
Machinery Breakdown	2466,64,00,000/-
Business Interruption (Including MLOP) Indemnity Period -12 months	885,00,00,000/-

Detailed Sum insured break up mentioned in annexure.

A.1.2. Deductibles

Section	Deductibles
MD SECTION	<ul style="list-style-type: none">5% of claim amount subject to minimum of INR 1.25 Crs for each and every loss.
BI SECTION INDEMINITY PERIOD: 12 Months	<ul style="list-style-type: none">FLOP: 30 days of Standard gross profitMLOP: 45 days of Standard gross profit

Premiums, Deposit Premiums and Premium Rates:

Particulars	(Deposit) Premium Currency [INR]
Total Premium excl. GST	5,80,17,100/-
Add.: GST @ 18%	1,04,43,078 /-
Total Premium incl. GST	6,84,60,178 /-

Annexure 4_Mega Insurance Policy

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ICICI Lombard General Insurance Company Ltd.

ICICI LOMBARD HOUSE , 414, Veer Savarkar Marg,

Near Siddhi Vinayak Temple, Prabhadevi, Mumbai - 400 025.

Attached & forming part of

Policy no.1012/115897379/06/000

Additional Conditions and warranties:-

Add on covers	Sub - Limits
Earthquake (Fire + Shock), Volcanic Eruption & Tsunami	Full Sum Insured
Storm, Tempest, Flood and Inundation	Full Sum Insured
Omission to insure addition, alteration -	5% of MD Sum insured Excl. Stocks
Escalation -	10% of MD SI Excl. Stocks
Capital additions /(automatically held covered up to 15% of sum insured)	Upto 15% of MD Sum Insured - Upon payment of Prorata Premium
Reinstatement value clause other than stocks	Agreed
Obsolete Equipment OR Inevitable Betterment OR Modification Costs and Expenses for Incompatibility of Equipment and/or Machinery	INR 10 Crs
Temporary removal for repair/Refurbishment including loss or damage during course of transit	INR 50 Cr any one accident & in aggregate.
Start-up expenses/ Shut Down expenses	10 Crs AOA 25 Crs AOY
Errors & Omissions	5 Crs EEL
Removal of debris including foreign debris - upto 10% of claim amount for each and every loss	INR 25 Crs AOA:AOY
Impact damage due to Insured's own Rail/Road vehicles or such vehicles in their care and custody or vehicles of employees, and including forklifts, cranes, stackers and the like and articles dropped therefrom	Full Sum Insured
Spontaneous Combustion	55 Crs AOA 110 Crs AOY
72 hours clause (for all AOG and major perils)	Agreed
Automatic reinstatement of sum insured clause	Premium to be paid on pro rata basis.
Local authorities clause	Agreed
Goods held in trust clause	Covered if included in Total Sum insured.
Claim preparation cost	INR 5 Crs EEL
On account payment clause	As per surveyor's advice
Designation of property clause	Agreed
Fire-fighting / Extinguishment and loss mitigation clause	INR 15 Cr each and every loss
Expediting expenses clause (including air freight)	INR 25 Cr each and every loss
Nominated adjustor clause - The Panel of surveyor(s) to be agreed	Agreed

Annexure 4_Mega Insurance Policy

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ICICI Lombard General Insurance Company Ltd.

ICICI LOMBARD HOUSE , 414, Veer Savarkar Marg,
Near Siddhi Vinayak Temple, Prabhadevi, Mumbai - 400 025.

Attached & forming part of
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Architects/ Surveyors/ Consulting Engineers Fees	INR 10 Cr Each and Every Loss
Primary Non-Contributory	Agreed
Waiver of Subrogation clause against all named insured including contractors and subcontractors	Agreed
Immediate Repairs	INR 15 Cr each and every loss
Computer systems records	INR 10 Cr each and every loss
Fine arts and Valuable papers	INR 10 Cr. each and every loss
Dewatering expenses/Drain Clearance	INR 25 Cr each and every loss
Loss Payee clause	Agreed
Section - Business Interruption	
Accumulated Stocks Clause	Agreed
Departmental Clause	Agreed
Specified Suppliers' & Customers' premises	As per wording mentioned below
Unspecified Suppliers' & Customers' premises extension	
Public utilities extension (Gas, Water and Electricity)	As per wording mentioned below
Alternative basis clause (Output option)	Agreed
Additional Increased cost of working	INR 10 Crs
Auditor Fees and Claim preparation clause	INR 5 Crs
Professional Accountants Clause	10 crs
Civil Authority	Covered
Prevention of Access	As per wording mentioned below

Contingent Business Interruption Extension (Restricted to onshore customers/suppliers/public utilities):

1. Prevention of access with maximum limit of 4 weeks (over & above the policy time excess) and with maximum radius of 5 kilometers from insured premises & only inland. Coverage under this section shall extend to include loss or reduction resulting from cessation, interruption, interference or inhabitation to the business as consequence of physical destruction of or damage to property belonging to the Insured or property within a radius of 5 kms from the insured premises (inland only) which prevents or hinders the use of or access to the premises (excluding port blockage)
2. Suppliers and/or customers and/or utilities extension upto first tier or direct suppliers/customers/public utilities:
 - Premises of Named customers & suppliers for a maximum limit of 20% of the limit of indemnity (Business Interruption Sum Insured/ Loss Limit). Coverage to be restricted to FLEXA perils for overseas customer/suppliers, whereas coverage to be restricted to FLEXA and AOG perils for Domestic customer/suppliers.
 - Premises of Un-named customers & suppliers located in India, for a maximum limit of 10% of the limit of indemnity (Business Interruption Sum Insured/ Loss Limit) and coverage restricted to FLEXA perils only. No cover for unnamed suppliers/customers located overseas.

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- Public utilities for a maximum limit of 17% of the limit of indemnity (Business Interruption Sum Insured/ Loss Limit). Coverage to be restricted to the terminal ends of the utilities.
- The limits specified above are in aggregate across all onshore customers/suppliers/public utilities respectively.
- Assets like pipelines, transmission & distribution lines, cables, etc. extending beyond the suppliers and/ or customers and/ or utilities premises are excluded from coverage.

Exclusions:

1. Sanction Limits and Exclusion Clause
2. Political Risk Exclusion
3. Nuclear Energy Risk Exclusion Clause
4. Testing and Commissioning
5. Terrorism Exclusion
6. Total Asbestos Exclusion Clause
7. Electrical Data Recognition Clause
8. Information Technology Clarification Agreement
9. Radioactive Exclusion
10. Cyber Risk Exclusion Clause

Bankers Details:*

Sr. No.	Name of Financers
1.	IDBI Bank Ltd - 2 nd floor, Mafalal Center, Nariman Point, Mumbai-400005
2.	Axis Bank Ltd - G Pullareddy Building,Ground Floor,Greenlands,Hyderabd-500016
3.	Union Bank of India - The Grand, first Floor,Raj Bhawan Road,Hyderabad
4.	Karnataka Bank Ltd - Credit Dept., 8-B, Upper Ground Floor, Rajendra Park, Pusa Road, New Delhi - 110 060
5.	India Infrastructure Finance Co., Ltd (A Govt. of India Enterprise) - Hindustan Times building 18 & 20, Kasturba Gandhi Marg, New Delhi New Delhi 110 001.
6.	Oriental Bank of Commerce - Plot.No.52,Road No.5, Jubli Hills Branch,LCB,Hyderabad-500033
7.	Bank of Baroda - 3-6-262/6, 3rd Floor, Tirumala Estate Building, Old MLA Quarters, Himayat Nagar, Hyderabad-500029
8.	Bank of India - Hyderabad Corporate Banking Branch, First Floor, PTI Building, AC Guards, Hyderabad-500004
9.	Punjab & Sind Bank - P-18/90, Industrial Finance Branch,1st Floor, Madras Hotel Building, Connaught Circus, New Delhi-110001
10.	Indian Bank - Hyderabad Main Branch, Surabhi Arcade, Bank Street, Hyderabad-500001

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11.	Life Insurance Corporation of India - LIC Branch, Yogakshema (west wing) Sixth Floor Nariman Point, Mumbai-400021
12.	United Bank of India - 4-3-331, Bank Street, Koti, Hyderabad-500195
13.	UCO Bank - Flagship Corporate Center, Mafatlal Centre, 1st Floor, Nariman Point, Mumbai-400021

*Bankers address to be provided.

The stamp duty of Rs. 0.50/- (Fifty Paise Only) paid in cash or by demand draft or by pay order, vide Receipt/Challan No.CSD132019189819 dated 23rd April 2019 .

Signed for and on behalf of **ICICI Lombard General Insurance Company Limited**, at **Mumbai** on this date **MAY 17, 2019**.

Mr. Sanjay Datta
Authorised Signatory

GSTIN Reg No: 36AAACI7904G1ZO

ILGIC GSTIN Address: D. No : 6-3-352 / 1, Second and Third Floor, Osman Plaza, Road No 1, Hyderabad, Telangana 500034

Description of services: General Insurance Business

HSN/SAC : 9971

Policy shall stand cancelled ab initio in the event of non-realization of the premium.

Note – In case of renewal of the policy, policy benefit and terms & conditions of policy including premium may be subject to change.



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Definitions applicable to all Sections

The terms listed below and used in this Policy of Insurance shall have the following meanings unless they are defined differently in any Section hereof or the context so requires.

Act of default	Means a deliberate act regardless of whether the actual consequences of such an act were anticipated or not or a reckless failure to take the reasonably necessary precautions which a prudent insured would take to prevent loss or damage to the property insured or any deliberate act of material non-disclosure or breach of any warranty or condition of this Policy of Insurance.
Act(s) of God	Means an occurrence due to natural causes, directly and exclusively without human intervention and which could not have been foreseen or if foreseen, could not have been resisted by any amount of human care or skill.
Actual Cash Value	Means the cost which in the event of loss or damage to any item or part of the property insured would be necessary to replace it with one of the same age and capacity and similar make and quality, inclusive of all materials, wages, freight, customs, duties and dues.
Additional Insurance Cover	Means any Additional Insurance Cover The Insured may decide to take out in any Section of this Policy of Insurance.
Consequential Loss	Means any financial loss of any kind or description whatsoever, including penalties, loss of profit, loss of opportunity, losses due to delay, lack of performance or loss of contract.
Deductible	Means the amount to be deducted from any payment otherwise to be made by The Insurer to The Insured.
The Insured	Means all the parties named as The Insured in a Section of this Policy of Insurance and if the context so requires any one of them.
The Insurer (or Company)	Means the party (ies) named as such in this Policy of Insurance. If there is more than one Insurer/Company, each Insurer/Company shall be separately liable only to indemnify The Insured for that proportion of any claim as set out in The Schedule at the end of this Policy of Insurance and the expression "The Insurer" is used for each Insurer/Company separately, unless a Lead Insurer has been agreed upon and entered expressly in The Schedule.
Insurer's agent	Means an individual, firm or company appointed by The Insurer to act on its behalf.
Insured Party(ies)	Means the individual, firm, company, corporation or joint venture specified as an Insured in this Policy of Insurance.
Insuring Party	Means the individual, firm, company, corporation, joint venture or combination of the above named as such in this Policy of Insurance that has entered into this Policy of Insurance on behalf of itself and any other party named as an insured in any Section in this Policy of Insurance.
Language of	Means the language in which communication between The Insured and The

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Communication	Insurer under this Policy of Insurance shall take place.
Malfunction	Means the failure of a data processing system, software program or built-in microprocessor to function properly or the production of wrong results.
Material change in risk	Means any change in the nature, exposure, location, execution and maintenance of the property insured that a reasonably prudent insurer would consider material to the acceptance of the risk under the terms and conditions of this Policy of Insurance.
New Replacement Value	Means the costs, which would be incurred to replace the property insured at the Premises with new items of similar kind and quality at any time during the Period of Insurance.
Period of Insurance	Means the period during which cover is provided by this Policy of Insurance as specified in The Schedule.
Policy of Insurance	Means the Proposal, the definitions, the conditions, the exclusions, The Schedule and the Sections of this Policy of Insurance.
Premises	Means the location(s) of the property insured.
Premium	Means the Premium payable under this Policy of Insurance calculated in accordance with its terms.
Premium Rate	If applicable, means the rate referred to as such in The Schedule agreed between the Insuring Party and The Insurer.
Property Insured	Means the Property Insured as specified in The Schedule to this Policy of Insurance.
Proposal	If applicable, means the written information submitted to The Insurer by the Insuring Party seeking insurance cover under this Policy of Insurance.
Representatives	Means the directors, officers or any other individuals that have the authority to exercise administrative or executive control over the execution of a contract or over an operation or business.
The Schedule	Means The Schedule to the section(s) of this Policy of Insurance in which reference is made to it.
Section	Means any Section of this Policy of Insurance including The Schedule thereto.
Sum(s) Insured	Means the amount of insurance cover specified in The Schedule in respect of any particular item of Property Insured or interest insured or the total amount of insurance cover specified in The Schedule as the context may require.



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A.2. POLICY OUTLINE

COVERAGE: This Policy consists of coverage summarised in The Schedule and detailed in Section I, Section II, Section III, General Conditions, General Exclusions, Specific Conditions and Specific Exclusions, which form the Policy and are attached hereto. The following summary of the scope of cover is for information purposes only, without restricting or widening the cover described in the individual sections, any claim for completeness or assuming liability:

POLICY SECTIONS: **Section – I: All Risks of Physical Loss or Damage / (Non-Marine) Property (excluding Machinery Insurance)**

All permanent and temporary property (including Stocks) of every kind and description of the Original Insured and/or for which they have an insurable interest including property held in consignment, care, custody and/or control, whilst in operation or repairs or maintenance or in storage or during movement within the site or while carrying out Minor Works whilst contained in the premises insured.

Section – II: All Risks of Physical Loss or Damage / Machinery Insurance

All machinery and equipment including electrical or electronic machinery of the insured plant including spare parts, all machinery and equipment in which the Original Insured has an insurable interest in case of loss or damage covered under the policy, whilst contained in the Insured's premises.

Section – III: All Risk Operational business interruption

Loss of gross profit (the actual loss sustained) during the indemnity period resulting from a reduction in turnover including any increased cost of working due to an interruption of the Insured's Business following loss of or damage to any property and/or assets (including Stocks at plants) insured and recoverable under the Property Damage section.

Sum Insured Breakup:

Property Damage:

Particulars	Sum Insured
Building & Civil Works (including plinth & Foundations)	INR 467.40 Crores
Plant and Machinery including spares & consumables)	INR 2466.64 Crores
Coal Stock	INR 110 Crores
Office Equipment's	INR 1.32 Crores
Computer	INR 0.69 Crores
FFF	INR 1.5 Crores
Software	INR 0.13 Crores
Property held in Trust	INR 12.31 Crores
Material Damage Sum Insured	INR 3,060 Crores



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A.3. GENERAL CONDITIONS (APPLICABLE TO ALL SECTIONS)

A.3.1. Several Liability Notice

The Insurer(s) is(are) the company or companies named in The Schedule; if there is more than one company, each company shall be separately liable only to indemnify The Insured for that proportion of any claim as set out in The Schedule of this Policy of Insurance.

A.3.2. Policy Interpretation, Rights and Obligations

A.3.2.1. Identification

This Policy of Insurance and The Schedule (which forms an integral part of this Policy) shall form the entire agreement between The Insurer and the Insuring Party and any party claiming as an insured and shall be read together as one contract and words and expressions to which specific meanings have been attached in any part of this Policy or of The Schedule shall bear such specific meanings wherever they shall appear.

This Policy of Insurance supersedes and replaces all prior communications, representations, warranties, undertakings and agreements between the parties whether oral or written.

A.3.2.2. Order of Precedence

It is understood and agreed that all printed clauses referred to herein apply insofar as they do not conflict with the typewritten wording of this Policy, the typewritten wording of this Policy taking precedence and the typewritten wordings / handwritten wordings, if any, shall be paramount.

A.3.2.3. Captions, Headings and Language

It is hereby understood and agreed that the captions and headings of the clauses are inserted herein for reference purposes only and are not part of the clauses to which they refer, the language of this Policy is deemed to be that of Insurers, i.e. English.

A.3.2.4. Assignment

Assignment or transfer of this Policy shall not be valid without the written consent of The Insurer.

A.3.2.5. Designation of Property Clause

For the purpose of determining, where necessary, the item under which any property is insured, The Insurer agrees to accept the designation under which the property has been entered in The Insured's books



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A.3.2.6. Additional Insured (to be named in The Schedule)

It is understood and agreed that any individual, firm, corporation and/or its joint ventures, for whom or with whom The Insured may be operating is hereby named as additional Insured in The Schedule when required by contract, or as required. It is further understood and agreed that in the event there is any violation of the terms and conditions of this insurance by one Insured, it shall not affect the rights of other Insureds; including interest of mortgagees and notice of assignment in respect thereof.

A.3.2.7. Multiple Insured Clause

If in any Section The Insured comprises of more than one party each operating as a separate and distinct entity, this Policy of Insurance shall, unless otherwise provided for in this Policy of Insurance, apply as if a separate policy had been issued to each of these parties provided always that The Insurer's overall liability towards the parties that constitute The Insured in any Section shall not exceed the Sum Insured and any limits of indemnity specified in The Schedule to that section.

Any payment made by The Insurer to any Insured Party as a result of an occurrence of loss or damage shall reduce, by the amount of that payment, The Insurer's liability towards all Insured Parties that constitute The Insured arising from that occurrence under this Policy of Insurance.

A.3.2.8. Information rights of The Insurer and Confidentiality Agreement

The Insurer shall be permitted but not obligated to inspect The Insured's property and operations at any reasonable time, and The Insured shall provide The Insurer with all relevant details and information.

Neither the right to make inspections nor the making thereof nor any advice or report resulting there from shall constitute an undertaking on behalf or for the benefit of The Insured or others to determine or warrant that such property or operations are safe and healthy or are in compliance with a law, rule or regulation.

The Insurer will maintain confidential any information obtained under this Policy and not use such information except for the purposes of the Policy.

A.3.2.9. Premium payment

The required cover for which Premium was sought shall not be available to The Insured until such date that the Premium is paid by the Insuring Party and it is understood that payment of the Premium is a condition precedent to The Insurer's liability towards any Insured Party under any Section of this Policy of Insurance. Cover as agreed under this Policy would incept from the date of payment of the required Premium. The Insurer shall not be liable to indemnify The Insured or any Insured Party in respect of any occurrence happening prior to receipt of the Premium.

A.3.2.10. Sum Insured

It is a requirement of this Policy of Insurance that the sum(s) insured specified in The Schedule in respect of the Property Insured shall not be less than the New Replacement Value of such property.



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A.3.2.11. Escalation (applied to Sections I, II)

It is hereby agreed and understood that subject otherwise to the terms, exclusions, provisions and conditions contained in the Policy or endorsed thereon and subject to the Insured having paid the additional premium,

On the under noted items(s) the Sum(s) Insured thereby shall, during the period of insurance, be increased each day by an amount representing 1/365th of the specified percentage increase per annum.

Specified percentage increase per annum: 10%

Unless specifically agreed to the contrary the provisions of this clause shall only apply to the sums insured in force at the commencement of each period of insurance.

At each renewal date the insured shall notify the Company:-

(i) the sums to be insured under each item above, but in the absence of such instructions the Sums Insured by the above items shall be those stated on the Policy (as amended by any endorsement effective prior to the aforesaid renewal date) to which shall be added the increases which have accrued under this Clause during the period of insurance upto that renewal date, and

(ii) the specified percentage increase(s) required for the forthcoming period of insurance, but in the absence of instructions to the contrary prior to renewal date the existing percentage increase shall apply for the period of insurance from renewal.

A.3.2.12. Cancellation

This policy may be terminated at any time at the written request of the Insuring Party with seven days' notice.

The Insurer may cancel this Policy by giving The Insuring Party not less than 30 days prior written notice.

In either case, pro-rata daily return of Premium shall be payable to The Insuring Party for the unexpired period from the date of termination.

A.3.2.13. Expiration

If this policy should expire or be cancelled while an insured event affecting the Property Insured is in progress, it is understood and agreed that Insurers, subject to all other terms and conditions of this Policy, are responsible as if the entire loss had occurred prior to the expiration of this insurance.

A.3.2.14. Fraud and forfeiture

If an Insured Party makes any claim that is fraudulent or any false declaration or statement in support thereof, this Policy of Insurance between The Insurer and The Insured Party making such a claim shall become void and The Insurer shall not be liable to make any payment hereunder to that party.

For the avoidance of doubt, the Insuring Party shall not be entitled to any return of Premium in the event that the Policy of Insurance is treated as void.



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A.3.2.15. Mis-description

If there be any material misdescription by The Insured or any one acting on his behalf of any of the property hereby insured, or of any place in which such property is contained, or of the business or Premises to which this insurance refers or any misrepresentation as to any fact material to be known for estimating the risk or any omission to state such fact, The Insurer shall not be liable under this Policy for the property affected by any such mis-description, misrepresentation or omission.

A.3.2.16. Non-Disclosure

It is also understood and agreed that this Policy shall be voidable in case of non-disclosure of material facts of The Insured.

A.3.2.17. Act of default (Breach of Conditions)

In the event of an Act of default being committed by an Insured Party or its Representatives the Insurer shall not be liable to pay any amount to the Insured Party under this Policy of Insurance.

An Act of default committed by one Insured Party or its Representatives shall not prejudice the entitlement to indemnity of any other Insured Party that has not itself (and whose Representatives have not) committed an Act of default.

In the event of The Insurer refusing to indemnify an Insured Party as a result of any Act of default no other Insured Party shall be entitled to indemnity in respect of the same loss or damage by assuming the rights or obligations of the Insured Party whose claim for indemnity The Insurer has refused or is entitled to refuse.

In the event of an Act of default The Insurer shall be entitled to claim from the Insured Party any loss or damage it may have suffered including, without limitation, any sums it may have paid to any other Insured Party as a result of any loss or damage caused or contributed to by the Insured Party or its Representatives committing an Act of default.

A.3.2.18. Material Change

As soon as is reasonably possible, any party named as the insured in any Section of this Policy of Insurance shall notify the Insuring Party of any Material change in risk of which it is aware or ought reasonably to be aware and shall take or cause to be taken at its own expense any additional precautions that may be necessary to prevent loss or damage occurring to the Property Insured as a result of such Material change in risk.

The Insuring Party shall immediately notify The Insurer in writing upon receipt of any notice from the insured.

The Insurer shall not be liable for any loss of or damage to Property Insured which would not have resulted had there not been a Material change in risk unless the Insurer has agreed to the Material change in risk in which case the scope of cover and Premium shall, if necessary, be adjusted by The Insurer to reflect the Material change in risk.



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A.3.2.19. Reasonable precautions

The Insured shall take at his own expense all reasonable precautions, maintain the property in a proper state of repair and comply with all reasonable recommendations made by The Insurer, to prevent loss of or damage to the Property Insured or any liability arising under this Policy of Insurance and comply with all relevant statutory requirements.

A.3.2.20. Preventive Maintenance

It is a condition of this Policy that the Insured takes all reasonable steps to inspect and maintain the Property Insured. Any plant, machinery or equipment forming the Property Insured shall be inspected and maintained in accordance with the recommendations of the suppliers or manufacturers of such plant, machinery or equipment. Such inspection and maintenance shall include safety checks, preventive inspection and maintenance, rectification of loss or damage or faults arising from normal operation or wear and tear as well as from ageing, and shall also include the repair or preventive replacement of components modules or parts. The Insured shall fully observe the government and all other binding regulations in force concerning the working of the Property Insured and shall see to it that the machinery is under the supervision of competent personnel.

A.3.2.21. Clarification Agreement

Property damage covered under this Agreement shall mean physical damage to the substance of property.

Physical damage to the substance of property shall not include damage to data or software, in particular any detrimental change in data, software or computer programs that is caused by a deletion, a corruption or a deformation of the original structure.

Consequently the following are excluded from this Agreement:

- (1) Loss of or damage to data or software, in particular any detrimental change in data, software or computer programs that is caused by a deletion, a corruption or a deformation of the original structure, and any business interruption losses resulting from such loss or damage. Notwithstanding this exclusion, loss or damage to data or software which is the direct consequence of insured physical damage to the substance of property shall be covered.
- (2) Loss or damage resulting from an impairment in the function, availability, range of use or accessibility of data, software or computer programs, and any business interruption losses resulting from such loss or damage.



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A.4. GENERAL EXCLUSIONS (APPLICABLE TO ALL SECTIONS)

Notwithstanding any provision to the contrary within this Policy or any endorsement thereto it is agreed that this Policy excludes loss, damage, cost or expense of whatsoever nature directly or indirectly caused by, resulting from or in connection with any of the following regardless of any other cause or event contributing concurrently or in any other sequence to the loss:

A.4.1. Political Risks Exclusion

Notwithstanding any provision to the contrary within this Policy or any endorsement thereto it is agreed that this Policy excludes loss, damage, cost or expense of whatsoever nature directly or indirectly caused by, resulting from or in connection with any of the following regardless of any other cause or event contributing concurrently or in any other sequence to the loss:

- (a) war (whether declared or not), invasion, acts of foreign enemies, hostilities or warlike operations (whether war be declared or not), civil war, rebellion, revolution, insurrection, mutiny, conspiracy, military or usurped power, confiscation, nationalization, commandeering, requisition or destruction or damage by or under the order of any government de jure or de facto or by any public or local authority, civil commotion assuming the proportions of or amounting to an uprising,; or
- (b) any act of terrorism.

For the purpose of this clause an act of terrorism means an act, including but not limited to the use of force or violence and/or the threat thereof, of any person or group(s) of persons, whether acting alone or on behalf of or in connection with any organisation(s) or government(s), committed for political, religious, ideological, or ethnic purposes or reasons including the intention to influence any government and/or to put the public, or any Section of the public, in fear.

This clause also excludes loss, damage, cost or expense of whatsoever nature directly or indirectly caused by, resulting from or in connection with any action taken in controlling, preventing, suppressing or in any way relating to (1) and/or (2) above.

If The Insurer alleges that by reason of this exclusion, any loss, damage, cost or expense is not covered by this Policy the burden of proving the contrary shall be upon the Insured.

A.4.2. Radioactive Contamination

Nuclear reaction or nuclear radiation or radioactive contamination, all whether controlled or uncontrolled, and whether such loss be direct or indirect, proximate or remote, or be in whole or in part caused by, contributed aggravated by the peril(s) insured hereunder, including the following:

- (a) ionising radiations from or contamination by radioactivity from any nuclear fuel or from any nuclear waste or from combustion of nuclear fuel
- (b) the radioactive, toxic, explosive or other hazardous or contaminating properties of any nuclear installation, reactor or other nuclear assembly or nuclear component thereof



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- (c) any weapon of war, missile or like employing atomic or nuclear fission and / or fusion or other like reaction or radioactive force or matter
- (d) nuclear reaction, nuclear radiation or radioactive contamination

A.4.3. Act of default

Any Act of default committed by the insured or its Representatives.

A.4.4. Deductibles/ Retained Liability

The amounts stated in The Schedule as being the Deductibles, Time Excess or otherwise insured's Retained Liability.



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B. POLICY SECTIONS

B.1. SECTION I - ALL RISKS PHYSICAL LOSS OR DAMAGE – (NON-MARINE) PROPERTY

B.1.1. Property Insured

Section – I: All Risks of Physical Loss or Damage / (Non–Marine) Property (excluding Machinery Insurance)

All permanent and temporary property (including Stocks) of every kind and description of the Original Insured and/or for which they have an insurable interest including property held in consignment, care, custody and/or control, whilst in operation or repairs or maintenance or in storage or during movement within the site or while carrying out Minor Works whilst contained in the premises insured.

Section – II: All Risks of Physical Loss or Damage / Machinery Insurance

All machinery and equipment including electrical or electronic machinery of the insured plant including spare parts with no specifications being the property of the Original Insured and all machinery and equipment in which the Original Insured has an insurable interest in case of loss or damage covered under the policy, whilst contained in the Insured's premises.

Section – III: ALL RISK OPERATIONAL BUSINESS INTERRUPTION

Loss of gross profit (the actual loss sustained) during the indemnity period resulting from a reduction in turnover including any increased cost of working due to an interruption of the Insured's Business following loss of or damage to any property and/or assets (including Stocks at plants) insured and recoverable under the Property Damage section

B.1.2. Insuring Clause

The Insurer agrees subject to the terms, definitions, warranties, exclusions, limits provisions and conditions of this Section and of the Policy as a whole to indemnify The Insured against:

All Risks of fortuitous and accidental physical loss or damage or destruction to the Property Insured occurring during the Period of Insurance, which results in Property Insured needing to be repaired or replaced, other than those specifically excluded:

B.1.3. Special Exclusions to Section I

This Section does not cover loss or damage to any Property Insured caused directly or indirectly by or in connection with or arising from or occasioned through:

(a) inherent vice, latent defect, wear and tear or gradual deterioration, leakage, seepage, pollution, contamination, overflowing of tank,

smog or extremes or changes of temperature or humidity or to non-existing, non-functional or inadequate heating, air-conditioning or cooling equipment including operating error, condensation, excessive moisture, dampness of atmosphere, seepage, disease, deterioration, decay, mildew, mould, fungus, wet or dry rot, insect larvae or



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vermin of any kind, infestation

loss or damage by normal settling, shrinkage or expansion in buildings or foundations,

other loss or damage of gradual nature, such as corrosion, erosion, cavitation, rust and scale,

scratching of painted or polished surfaces,

unless fortuitous accidental loss or damage covered under this Policy of Insurance ensues to other Property Insured and only such ensuing loss will be covered under this Policy of Insurance or unless such loss or damage is a result of an occurrence of loss or damage otherwise indemnifiable under this section;

(b) infidelity or any dishonesty on the part of The Insured or any of his employees or others to whom the property may be delivered or entrusted, inventory shortage or unexplained disappearance;

(c) processing, renovating, repairing or faulty workmanship thereon unless fortuitous accidental loss or damage covered under this Policy of Insurance ensues and only such ensuing loss will be covered under this Policy of Insurance;

(d) go-slow, total or partial cessation of work,

The Insurer shall not be liable for

(e) loss of use, delay or loss of markets or Consequential Loss of any nature whatsoever or any costs to reduce it unless covered under Section III of the Policy of Insurance

(f) shrinkage, evaporation, loss of weight, leakage, breakage of glass or other fragile articles, marring, scratching, exposure of light, or change in colour, texture or flavour unless fortuitous accidental loss or damage covered under this Policy of Insurance ensues and only such ensuing loss will be covered under this Policy of Insurance;

(g) theft where Property Insured is left in the open and not contained in buildings on permanent foundations, unless storage of such item is normally in the open;

(h) release, discharge, or dispersal of toxic or hazardous substances, contaminants or pollutant, proximate or remote.

(i) loss or damage for which cover is afforded under Section II of this Policy of Insurance

B.1.4. Excluded Property

This Section does not cover:-

(a) aircraft, watercraft including floating equipment, ships and vessels, spacecraft and satellites, railway locomotives, rolling stock

(b) vehicles, construction plant and equipment other than those used within The Insured Premises and expressly defined in The Schedule



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- (c) money, stamps, cash, credit cards, cheques, securities or obligations of all kind, deeds or documents, evidence of debt or title, patterns, plans, designs, rare books, jewellery, precious stones, gems or metals, furs and garments trimmed with fur
- (d) works of art, unless expressly specified in The Schedule;
- (e) standing timber, growing crops, livestock and animals, landscaping, flora and fauna;
- (f) land including topsoil, backfill or land values, water, roads, runways, transmission and distribution lines outside plant Premises beyond specified sub-limits, drainage and culverts, canals, dams, reservoirs, wells, pipelines outside plant Premises unless specifically included, tunnels, bridges, mining property, any property underground, drilling rigs, docks, piers, wharves, offshore property;
- (g) explosives, refractory linings whilst in process, materials in process damaged by operational error and as a result of its undergoing any process, maintenance, repair or testing or any emergency shutdowns;
- (h) Goods or property in transit other than within the Premises.
- (i) Property of The Insured, which has been, transferred into the possession of others, under leasing or rental agreements, hire, purchase, credit or other suspensive sale agreements.

B.1.5. Special Conditions for Loss settlement under Section I

B.1.5.1. Costs of repair

In respect of the Property covered hereunder, all costs of repairs and/or replacement including leviable duty and taxes for which insurers may be liable shall be on the basis of New for Old at the place of loss without taking into account and / or giving effect to depreciation or technological, functional or economic obsolescence except as hereunder mentioned. The rate and charges applicable for utilisation of The Insured's owned or chartered vessels, crafts, equipment in the repair / replacement of a loss damage and the percentage of overheads thereon to be taken from the certified rates as arrived at by The Insured from time to time.

B.1.5.2. Reinstatement Value Conditions

At the option of the Insured in the event of loss or damage to the Property Insured the insurance benefits in respect thereof shall be based on the cost of replacing or reinstating The Insured property or other property as The Insured may require.

Provided that the liability of The Insurer shall not exceed the cost of replacing or reinstating the property with property of a substantially similar kind and type not being superior to or more extensive than The Insured property when new.

Subject to the following Special Provisions and the terms and conditions of the Policy except as varied hereby:

The replacement or reinstatement (which may be carried out upon another site and in any manner suitable to the requirements of The Insured or by other alternative real capital investment made for the benefit of the business subject to the liability of the Insurer not



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being thereby increased) shall be commenced within 24 months (twenty four months) after the occurrence of the damage or within such further time as The Insurer may grant.

However payment will be made by The Insurer as if the reinstatement or replacement has been done within the said 24 months (twenty four months) provided that a firm commitment is shown to The Insurer's satisfaction that the replacement or reinstatement will be eventually completed.

Until actual expenditure has been incurred by The Insured in replacing or reinstating The Insured property destroyed or damaged The Insurer shall not be liable for any amount in excess of the amount which would have been payable under this Policy had the memorandum not been incorporated herein but not less than two thirds of the new reinstatement value.

Should the property lost or damaged not be in current production then The Insurer's liability shall be limited to the full cost of replacing or reinstating property in current production most similar to the property lost or damaged.

The cost of reinstatement shall include the expenses of adapting the newly acquired property to the existing undamaged property including the replacement of property, which cannot be used as such as necessary to reinstate the operation of the plant unit process.

Where for any reason, it is not possible or if The Insured elects not to rebuild or replace, The Insurer will pay to The Insured the Actual Cash Value of the property at the time of Loss.

Where the repair or replacement of the damaged or lost Property Insured involves import into the country of The Insured property, the replacement value as aforesaid shall include actual Import Duty including, but not limited to basic duty, countervailing duty, special additional duty, surcharge and other additional duties or any monetary equivalent of liability undertaken or incurred in lieu thereof.

Claims are to be settled on selling price for Finished Goods (or Contract price if the Finished Goods are covered by Contract and if it is higher than market price) and replacement value on feedstock, chemicals, stores and spares and other insured stock and work in progress. Where Feed Stock Chemicals and Stores and Spares are not replaced by item of specification same as the one lost or damaged, but by an item of inferior quality / specification for operating reasons or other reasons, The Insured will be indemnified as if he had replaced like items which were lost or damaged, based on prices prevailing after the damage / loss. Any financial loss caused by the use of items of inferior quality is not covered.

With respect to catalysts lost or damaged, the basis of indemnity if cover is endorsed to this Policy of Insurance is the Actual Cash Value at the time of the loss as per endorsement.

Where the Assets damaged or lost are those for which The Insured is only contractually liable for maintenance, the basis of indemnity shall still remain the same as above, irrespective of any contract to the contrary.

B.1.5.3. Constructive total loss

In ascertaining whether the Property Insured hereunder is a Constructive Total Loss The Insured value, being part of the scheduled values hereon, shall be taken as the repaired



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value and nothing in respect of the damaged or break-up value of the Property Insured hereunder or the wreck thereof shall be taken into account.

There shall be no recovery for a Constructive Total Loss hereunder unless the expense, (including duties, taxes and freight / air freight as and if applicable) of recovering and repairing the Property Insured shall exceed 80% of The Insured value. Or in respect of individual item(s) included therein, 80% of the value included therein in respect of such item(s).

In no case shall The Insurers be liable for unrepaired damage in addition to a subsequent Total Loss sustained during the period covered by this insurance. The Insured shall not be prevented from recovering a Constructive Total Loss hereunder by reason of any provision(s) in permit, license, Government regulation, or similar circumstances beyond the control of The Insured, which may prevent The Insured from abandoning the subject matter(s) of this insurance to The Insurers. In accordance with the foregoing, The Insurers agree to waive notice of abandonment but notwithstanding anything to the contrary contained herein The Insurers shall be placed in the same position as if notice of abandonment had been given by The Insured and declined in the customary manner by The Insurer.

B.1.5.4. Unrepaired Damage

In event of the loss of or damage to an item insured hereunder which results in a decision by The Insured to either, not to replace or repair with a redesign or new design and where construction of the redesigned or newly designed item serving the same purpose of the lost or damaged items is actually commenced and no repairs (other than those required to make the items safe) or replacement are carried out to the item which sustained loss or damage, Insurers agree that The Insured shall be indemnified on the basis of the reasonable cost of repairs in respect of such loss or damage plus any amounts expended in making the item safe. Such reasonable cost of repair would be arrived at on the basis as mentioned in the Indemnification clauses "B.1.5.1. Cost of Repair" and "B.1.5.2 Reinstatement Value Conditions"

B.1.5.5. Limit of Liability

In no event shall The Insurer's liability arising from any one accident or occurrence exceed the total value of Property Insured herein as per The Schedule.

B.1.5.6. Deductible

Each loss or series of losses shall be adjusted separately and from the amount of each such adjusted loss the sum stated as the Deductible in The Schedule shall be deducted.

B.1.6. Additional Extensions to Section I

Subject to additional Premium and sublimit as and if applicable as per Schedule, the following cover will be provided by The Insurer:



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B.1.6.1. Civil Authority

This Policy of Insurance insures against loss or increased cost occasioned by any Civil Authority's enforcement of any ordinance or law regulating the reconstruction, repair or demolition of any Property Insured hereunder following an indemnifiable loss.

Subject to the limit of Sum Insured property which is insured under this Policy of Insurance is also covered against the risk of damage or destruction by civil authority during a conflagration and for the purpose of retarding the same provided that neither such conflagration nor such damage or destruction is caused or contributed to by war, invasion, revolution, rebellion, insurrection or warlike operations as more fully described in General Exclusions applicable to all sections.

B.1.6.2. Omission to Insured

The Insured having notified the Insurer of their intention to insure all property in which they are interested and it being their belief that all such property is insured, if hereinafter any such property shall be found to have been inadvertently omitted, the insurer will deem it to be insured within the terms of the Policy.

Subject to sub-limits of as mentioned in the schedule.

B.1.6.3. ALTERNATIVE SETTLEMENTS

It is agreed and declared that at the option of the Insured, the term "Output" may be substituted for the term "Turnover" and for the purpose of this Section of Policy "Output" shall mean the sale value of goods manufactured by the Insured in the course of the Business at the premises, Provided that only one such meaning shall be operative in connection with any one occurrence involving Damage (as herein defined).

B.2. SECTION II - ALL RISK MACHINERY INSURANCE

B.2.1. Property Insured

This Section insures the following property:

All Machinery and Equipment including electrical or electronic machinery of The Insured's plants and spare parts with no specification being the property of The Insured and all machinery and equipment in which The Insured has an insurable interest in the Premises of The Insured and elsewhere as specified in The Schedule.

B.2.2. Insuring Clause

The Insurer agrees subject to the terms, definitions, warranties, exclusions, limits provisions and conditions of this Section and of the Policy of Insurance as a whole to indemnify The Insured against accidental physical damage to machinery and/or equipment insured caused by an Accident occurring during the Period of Insurance, which results in such machinery and/or equipment insured needing to be repaired or replaced.

Accident shall mean unforeseen and fortuitously manifested and/or occurred physical damage including Electrical Breakdown and Boiler Explosion to the machinery and/or equipment described above or thereof from any cause not excluded



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- (a) while it is at work or at rest or during testing
- (b) while being dismantled for the purpose of cleaning, inspection and overhauling or removal to another position or in the course of these operations themselves or subsequent re-erection within the Premises of The Insured or elsewhere.

B.2.3. Excluded Property

This Section does not cover (unless otherwise expressly agreed in writing) any Accident or Damage to any of the following excluded property:

- (a)
 - consumables, dies or exchangeable tools, moulds, engraved cylinders
 - parts which by their use and/or nature suffer a high rate of wear or depreciation, e.g. refractory linings, crushing hammers, objects made of glass, belts, cables, ropes, chains, wires, rubber tyres and all non - metallic parts
 - Operating media, e.g. lubricants, fuels, catalysts, batteries
 - escape of water from water containing apparatus,

It is noted however that:

- this exclusion shall not be applicable when damage to these parts only is part of a loss and/or damage to an insured machine,
 - this exclusion shall only refer to these parts and not to any resulting damage to the machinery insured under this Section of the Policy of Insurance;
 - electrical cables and instrumentation cables are not excluded in this clause
 - for the exceptions mentioned above this exclusion shall not exclude coverage under Section III arising as a result of such loss or damage.
- (b) Mechanical, electrical and electronic equipment prior to the successful completion of their performance acceptance tests.
 - (c) Transmission and distribution lines outside insured plant Premises
 - (d) Any property underground or offshore
 - (e) Property of The Insured, which has been, transferred into the possession of others, under leasing or rental agreements, hire, purchase, credit or other suspensive sale agreements.

B.2.4. Special Exclusions to Section II

This Section does not cover damage to any Property Insured under this Section caused directly or indirectly by or in connection with or arising from or occasioned through:

- (a)
 - wearing away or wearing out of any part of any Property Insured caused by or naturally resulting from ordinary use or work such as cavitation, erosion, corrosion,



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rust or due to any gradual deterioration caused by atmospheric conditions or due to other causes

- boiler scale, incrustation, deterioration, settling, gradual cracking, gradually developing deformation or distortion, scratching of painted or polished surfaces. but this exclusion shall be limited to the items immediately affected and shall not exclude liability for loss or damage not otherwise excluded to other parts of the Property Insured as a consequence thereof;
- (b) any faults or defects existing at the time of commencement of this Policy of Insurance of which The Insured or his Representatives were or ought reasonably to have been aware, irrespective of whether such faults or defects were known to The Insurer or not;
- (c) go-slow, total or partial cessation of work,

The Insurer shall not be liable for

- (d) loss or damage caused by intentional overloading or experiments involving the imposition of abnormal conditions, except for conditions permitted by the manufacturers or by judgement of a competent engineer or where such conditions arise during normal periodic testing, including pre-commissioning start-up and commissions of Construction and / or erection Projects insured under this section.
- (e) costs of maintenance, upgrade or improvement, normal upkeep
- (f) loss of or damage to hired equipment for which the lessor is responsible either by law or ordinance or under any contract or agreement;
- (g) Loss or damage for which the manufacturer or supplier of the property is responsible either by law or ordinance or under any contract or agreement.

This exclusion shall not apply to loss or damage caused in the course of reinstating or replacing an otherwise insured damage.

- (h) any increase in the cost of replacement or repair due to enforcement of any ordinance or law;
- (i) loss of use of any machinery, delay or loss of markets or Consequential Loss of any nature whatsoever or any costs to reduce it unless covered under Section III of the Policy of Insurance;
- (j) Loss or damage for which cover is afforded under Section I of this Policy of Insurance.

B.2.5. Special Conditions to Section II for Loss settlement

The basis of loss settlement under Section I of this Policy of Insurance shall be:

In case of loss or damage, the basis of adjustment unless otherwise endorsed thereon shall be the Replacement/Reinstatement Cost.

Replacement/Reinstatement Cost shall mean all expenses necessarily incurred to repair, rebuild or replace with new materials of like kind and quality including dismantling and re erection charges incurred for the purpose of effecting repair.



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Replacement/Reinstatement Cost shall be determined based on the expense incurred as on the date of reinstatement of any loss or damage under this Policy.

The insured shall be entitled to receive monetary settlement hereunder based upon the actual reinstatement value provided the Insured shall provide all such information, as Insurers shall require in proof/evidence of the amount of loss.

In the event any property or interest or part thereof is replaced by any substantial design, material or workmanship involving an elected betterment, liability hereunder shall exclude the estimated additional cost of such betterment above the reproduction cost of the damaged property at the time of the settlement of the loss.

It is further noted and agreed that in the event of physical loss or damage to the property insured hereunder the insured, at their sole discretion, shall have the option to accept repair or replacement terms as offered by the Original Equipment Manufacturer (OEM) regardless of any other terms offered by other suppliers, manufacturers or fabricators. Provided always that the difference between the OEM quote and the lowest quote doesn't exceed 25% of the lowest quote and quotes are based on the same technological specifications.

DUE DILIGENCE

It is agreed by the insured that during the continuance of this policy the machine(s) shall be maintained in good working order and not wilfully operated beyond safe limits except as permitted by the manufacturers or by judgment of a competent engineer and that Government or other regulations relating to the condition, operation or inspection of machine(s) are observed. The Insured agree to forward to the insurer copies of such inspection reports whenever required to do so by the insurer.

REPAIRS

In the event of a breakdown of any Property Insured likely to give rise to a claim hereunder, the insurer shall have the right to take over and control all necessary repairs to be completed to the satisfaction of the insured.

REMOVAL

Such insurance as is afforded under this Section of the policy shall also apply while the property Insured is being removed because of imminent danger of loss or damage.

RIGHT OF INSPECTION

The Insurers' officials shall at all reasonable times have the right of access to the premises in which the machines are situated provided they comply with all reasonable site access requirements.



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B.3. ADDITIONAL EXTENSIONS TO SECTIONS I

If specified in The Schedule, the following Additional Insurance Cover will be provided subject to the terms contained herein:

B.3.1. Expediting expenses

The Insurer shall indemnify the insured up to the limit of indemnity specified in The Schedule in respect of reasonable extra costs for overtime, night-work, work on public holidays, express freight (including airfreight) incurred to rectify loss of or damage to Property Insured.

B.3.2. Capital additions

- The insurer shall indemnify the insured in respect of loss of or damage to:
- Any buildings, machinery and other equipment acquired or operated by or held in the care, custody or control of the insured after the inception of this policy of insurance and not included in the schedule.
- Any additions or extensions to property insured which have been carried out after the inception of this policy of insurance collectively referred to as capital additions.
- Any increase in the new replacement value as a result of such capital additions shall not exceed the percentage of the total sum insured specified in the schedule.
- This additional insurance cover is also subject to the insuring party advising the insurer within three months of the particulars of any such capital additions over and above the automatic cover percentage as mentioned in the schedule and the payment of any additional premium the insurer may require.

B.3.3. Start-up / Shut-down Cost (if applicable):

On the occurrence of an event which leads to a damage or loss covered under Sections I or II, this Policy of Insurance covers actual loss sustained due to specified start-up / shut-down costs for power and utilities such as electricity, water, steam, gas as well as feedstock, fuels or combustibles to re-establish the plant in the operational state it was at the time of the damage in a normal start-up procedure and subject to the sublimit entered in The Schedule.

Start-up costs will not be recoverable under normal or emergency shut down operations

B.3.4. Fees of Architects, Engineers and Others

The Indemnity hereunder shall include fees of Architects, Engineers, Surveyors, Consulting Engineers, Legal and other Consultants reasonably and necessarily incurred for the purpose of replacement and/or reinstatement and/or any other insured undertaking consequent upon an occurrence hereby insured but not for preparing claims.

The amount payable for such fees shall not exceed the limit of indemnity specified in The Schedule.



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Policy no.1012/115897379/06/000***B.3.5. Removal of Debris excluding Foreign Debris**

This Policy insures the cost of demolition and/or removal of debris and/or any other expenses necessarily incurred in connection with site clearing operations and/or salvaging including damage caused by such operations, dismantling, shoring up, propping, in the event of circumstances giving rise to indemnifiable loss or damage by any of the perils insured under this Policy and limited for each and every loss as per the sublimit shown in The Schedule.

B.3.6. Fire Fighting Expenses, Extinguishment and loss mitigation

Except as otherwise excluded herein Insurers shall be liable for the reasonable cost of foam solution or other fire extinguishing materials lost, expended, damaged or destroyed, together with other reasonable costs incurred in fighting fire on the Property Insured hereunder, charges incurred in respect of Fire Fighting or Watchmen Services attendants at the scene of any fire and/or other events requiring their services in the event of circumstances giving rise to indemnifiable loss or damage by any of the perils insured under this Policy subject to a sublimit per loss as per schedule.

B.3.7. Immediate repairs

It is agreed that in case of loss the insured, if they so elect, may immediately begin repairs or reconstruction but such work shall at all times be open to supervision by the insurer or their representatives and in case of dispute as to the cost of repair and/or reconstruction the loss shall be settled in accordance with the terms of this policy, the sole object of this condition being not to deprive the insured from the use of operating properties which may be necessary to their Business. Evidence of loss to be photographed and if any damaged items are replaced, the same to be preserved for inspection by surveyor.

B.3.8. Temporary Removal of Property (Excluding Stocks)

It is hereby understood and agreed, subject otherwise to the terms, conditions and exclusions of the Policy and endorsed hereon and subject to the Insured having paid the agreed additional premium that

- 1) When insured property is removed from an Insured Location for the purpose of being repaired or serviced or in order to avoid threatened physical loss or damage of the type insured by this Policy, this Policy covers such property:
 - a) while at the location to which such property has been moved; and
 - b) For physical loss or damage as provided at the Insured Location from which such property was removed.
- 2) This additional coverage does not apply to property:
 - a) Insured, in whole or in part, elsewhere in this Policy.
 - b) Insured, in whole or in part, by any other insurance policy.
 - c) Removed for normal storage, processing or preparation for sale or delivery.

The indemnity provided herein shall be subject to the limit of indemnity and deductible as specified in the schedule.



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Policy no.1012/115897379/06/000***B.3.9. Plans, Documents & Computer Systems Records**

It is hereby understood and agreed, subject otherwise to the terms, conditions and exclusions of the Policy and endorsed hereon that the insurance by this Policy extends to cover the cost incurred to reconstruct the Plans, Documents & Computer systems records. The limit for the coverage is restricted to the amount mentioned in the schedule.

B.3.10. Obsolete Spare Parts

In the event of spares currently insured hereunder and represented within total sum insured under the policy of insurance becoming obsolete, following an identifiable loss to the unit and /or units to which they belong, such spare parts shall also be deemed a constructive total loss, provided always that such parts cannot be used as spares in any other units within the Premises of the Insured. The insurers retain salvage rights over such parts. This is subject, however to the cost of spares of all the Machinery having been included in the Sum Insured.

B.3.11. Spontaneous combustion

It is hereby agreed and understood that subject otherwise to the terms, exclusions, provisions and conditions contained in the Policy or endorsed thereon and subject to the Insured having paid the additional premium,

This Policy shall extend to include loss or damage to the property insured caused by its own fermentation, natural heating or spontaneous combustion.

B.3.12. Claim Preparation Costs

It is hereby declared and agreed that, notwithstanding anything to the contrary contained in this Policy and subject to the Insured having paid the agreed additional premium, that the Company will pay the Insured up to the limit of liability stated in the Schedule as reasonable and necessary claim preparation costs, which Insured incur, solely at Company's request in the determination of the extent of loss or damage prior to Company's final adjustment of Insured's claim. Company will not pay for the services of Insured's attorneys or **Public Adjusters**. Premium for the purpose of this endorsement will be charged at the inception of the Policy by the Company.

For the purpose of this Policy, Public Adjusters are defined as follows:

Public Adjusters - individuals or groups, including consultants, secured specifically for the purpose of representing the interest of the Insured in the adjustment of a claim(s) under this Policy.

The indemnity provided herein shall be subject to the limit of indemnity and deductible as specified below:

B.3.13. Public Authorities

It is hereby declared and agreed that notwithstanding anything contained to the contrary in the Policy , this Policy includes such additional cost of reinstatement (including alteration to undamaged portions of the property insured including foundations but not separate and



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undamaged buildings) following loss, destruction or damage as may be incurred by the Insured solely by reason of

a) the necessity to comply with building or other regulations framed in pursuance of any government or public or local authority, statute, decree or ordinance in effect at the date of the occurrence or discovery of the physical loss or damage whichever shall be the later.

b) The Company requiring conformity to the current relevant construction rules in respect of existing sprinkler installations, fire walls or doors.

Provided that the amount recoverable under this clause shall not include the costs incurred in complying with the aforesaid regulations or the aforesaid Company's requirements under which notice has been served upon the Insured prior to the happening of the loss, destruction or damage.

The work of reinstatement may be carried out wholly or partially upon another site subject to the liability of the Company under this clause not being thereby increased.

Subject otherwise to the terms, conditions and exclusions of the Policy.

The indemnity provided herein shall be subject to the limit of indemnity and deductible as specified in the schedule.

B.3.14. Automatic Reinstatement

At all times during the Period of Insurance of this Policy, the insurance cover will be maintained to the full extent of the respective Sum Insured in consideration of which upon the settlement of any loss under this policy exceeding the amount specified in The Schedule, pro-rata Premium for the unexpired period from the date of such loss to the expiry of Period of Insurance for the amount of such loss shall be payable by The Insured to The Insurer.

The additional Premium referred above shall be deducted from the net claim amount payable under this Policy. This continuous cover to the full extent will be available notwithstanding any previous loss for which The Insurer may have paid hereunder and irrespective of the fact whether the additional Premium as mentioned above has been actually paid or not following such loss. The intention of this condition is to ensure continuity of the cover to The Insured subject only to the right of The Insurer for deduction from the claim amount, when settled, of pro-rata Premium to be calculated from the date of loss till expiry of this Policy.

Notwithstanding what is stated above, the Sum Insured shall stand reduced by the amount of loss in case The Insured immediately on occurrence of loss exercises his option not to reinstate the Sum Insured as above. Limit as specified in the schedule.



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B.3.15. Inadvertent Omission:

The Insured having notified the insurers of their intention to insure all property in which they are interested and it being their belief that all such property is insured, if hereinafter any such property shall be found to have been inadvertently omitted, the insurers will deem it to be insured within the terms of this Policy. Limit as specified in the schedule.

B.3.16. Property and Consignment held in care, custody, control or trust

It is hereby agreed & declared that notwithstanding anything stated in the printed exclusions of this policy to the contrary, the company undertakes to indemnify the insured the loss/damage resulted accidentally/directly to property held in trust &/or on commission used, kept, installed or operated at the Insured premises

The indemnity provided herein shall be subject to the limit of indemnity and deductible as specified in the schedule.

B.3.17. Valuable Papers and Records

It is hereby declared and agreed that, notwithstanding anything to the contrary contained in this Policy and subject to the Insured having paid the agreed additional premium, Company will pay for direct physical loss of or damage for the purpose of this Policy to Valuable Papers and Records at the premises described in the Schedule. Company will pay for the value, blank and Insured's necessary costs to research, replace or restore the information lost or damaged thereon, including those which exist on electronic or magnetic media that are Insured's property or the property of others in Insured's care, custody or control. This coverage does not apply to loss or damage to property that cannot be repaired or restored with like kind or quality. Company will pay no more than the limit of liability as stated below: . Only for the purpose of this endorsement, valuable papers and records is defined as follows:

Valuable Papers and Records - inscribed or printed or written documents and manuscripts or records, including abstracts, books, deeds, drawings, films, maps, mortgages, prints and tracings, computer programs, card index systems, files, tapes, discs, drums, cells and other magnetic recordings or storage media for electronic data processing; but Valuable Papers and Records does not mean money or securities.

B.3.18. Impact Damage due to Insured's own Rail/Road Vehicles, Fork lifts, Cranes, Stackers and the like and articles dropped therefrom.

It is hereby agreed and declared that the policy is extended to cover loss and/or damage caused due to impact by direct contact to Insured's property caused by Insured's own Rail/Road Vehicles, Fork lifts, cranes, stackers and the like and articles dropped therefrom."

B.3.19. Errors and Omissions

It is hereby declared and agreed that, notwithstanding anything to the contrary mentioned in the Policy, and subject to the Insured having paid agreed additional premium:

Company will pay for direct physical loss of or damage caused by a loss to property which is not payable under this Policy because of an unintentional omission or error by the Insured, at the time of policy inception, in the description or inclusion of any premises owned, occupied,



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leased or rented by Insured to declare the same as an insured property; but only to the extent the Company would have provided coverage had the unintentional omission or error not been made.

Insured must report any unintentional omission or error as soon as possible.

This coverage does not apply if there is coverage available under any of the provisions, endorsements, add-on covers of this Policy. Company will pay no more than the Limit of liability as mentioned in the schedule.

Subject otherwise to the terms, conditions and exclusions of the Policy.

B.4. OCCURRENCE OF A LOSS, CLAIMS AND INDEMNIFICATION PROVISIONS

B.4.1. Conditions for Loss settlement under Section I or II

B.4.1.1. Claims and loss notification

In the event of loss and/or damage, claim or suit, which may reasonably give rise to a claim under this Policy of Insurance, the Insured shall:

- (a) give to The Insurer as soon as practicable, but not later than 30 days after the occurrence of the event written notice containing particulars sufficient to identify the loss and/or damage, claim or suit and also reasonably obtainable information with respect to the time, place and circumstances thereof as well as nature and extent of the loss or damage, and the names and addresses of available witnesses.
- (b) take such measures as may be reasonable for the purpose of averting or minimising such loss or damage
- (c) ensure that all rights against carriers, bailees or other third parties are properly preserved and exercised; if claim is made or suit is brought against the Insured, the Insured shall at the earliest practicable advise The Insurer of every demand, notice, summons or other process received by him or his representative.
- (d) co-operate with The Insurer, and, upon The Insurer's request, assist in making settlements, in the conduct of suits and in enforcing any right of contribution or indemnity against any person or organisation who may be liable to the Insured because of property damage with respect to which insurance is afforded under this Policy, and the Insured shall attend hearings, and trials and assist in securing and giving evidence and obtaining the attendance of witnesses.
- (e) The Insured shall not, except at his own cost, voluntarily make any payment, assume any obligation, or incur any expenses. Notwithstanding the foregoing this clause shall not override the provisions of the Subrogation Clause.
- (f) do and concur in doing and permit to be done all such things as may be practicable to establish the cause and extent of the loss or damage
- (g) preserve all parts affected and make them available for inspection by The Insurer as long as The Insurer may require



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- (h) furnish any information and documentary evidence that The Insurer may require together with, if required, a statutory declaration of the truth of the claim
- (i) inform the police authorities of loss or damage due to major fire, theft or burglary or actions by any malicious person and render all reasonable assistance to the police authorities

B.4.1.2. Claims Provisions

If The Insured or anyone acting on his behalf hinders or obstructs The Insurer in any way or does not comply with any reasonable recommendations The Insurer may make following the notification of any loss or damage, all benefits claimed under any Section of this policy shall be forfeited.

The Insurer shall reimburse The Insured for any charges properly and reasonably incurred in pursuance of its duties in relation to clause (b) and (c) above in addition to any loss recoverable under any Section of this Policy.

The Insurer shall not be liable for loss or damage of which he has not received notification within 30 days of its occurrence.

B.4.1.3. Rights of The Insurer in case of a loss

On the happening of any loss or damage to any of the Property Insured under this Policy the Insurer may

- (a) enter and take and keep possession of the building or Premises where the loss or damage has happened
- (b) take possession of or require to be delivered to it any property of The Insured in the buildings or on the Premises at the time of the loss or damage
- (c) keep possession of any such property and examine, sort, arrange, remove or otherwise deal with the same
- (d) sell any such property or dispose of the same for account of whom it may concern. The powers conferred by this Condition can be exercised by The Insurer at any time until notice in writing is given by The Insured that he makes no claim under this Policy or, if any claim is made, until such claim is finally determined or withdrawn, and The Insurer shall not by any act done in the exercise or purported exercise of its powers hereunder, incur any liability to The Insured or diminish its rights to rely upon any of the Conditions of this Policy in answer to any claim.

If The Insured or any person acting on his behalf shall not comply with the requirements of The Insurer, or shall hinder or obstruct The Insurer in the exercise of its powers hereunder, all benefit under this Policy shall be forfeited. The Insured shall not in any case be entitled to abandon any property to The Insurer whether taken possession of by The Insurer or not.

B.4.1.4. Salvage

The salvage of any insured property on the occurrence of any loss or damage herein shall accrue to The Insurer (subject to indemnification of The Insured in full). The Insurer shall have the right to take possession of such salvage.



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B.4.1.5. Underinsurance- (Under Insurance Waiver)

If, in the event of loss or damage, it is found that the sum insured is less than the amount required to be insured, then the amount recoverable by the insured under this section shall be reduced in such proportion as the sum insured bears to the amount required to be insured.

Each item of the policy to which this condition applies shall be separately subject to the foregoing provision.

Provided however that if the said Sum Insured in respect of such item(s) of the Schedule shall not be less than 85% (Eighty Five percent) of the value of the item(s) thereat, this condition shall be of no purpose and effect.

B.4.1.6. Contribution

If at the time of any loss or damage occurrence to any property hereby insured, there be any other subsisting insurance or insurances whether effected by The Insured or by any other person or persons, covering either such loss or any part of it or the same property The Insurer shall not be liable to pay or contribute more than its rateable proportion of such loss or damage.

B.4.1.7. Bankruptcy and Insolvency

In the event of bankruptcy or insolvency of The Insured or any entity comprising The Insured, The Insurer shall not be relieved thereby of the payment of any claims hereunder because of such bankruptcy or insolvency, except under Section III (All Risk Operational Business Interruption).

B.4.1.8. Deductibles

This policy does not cover the amounts of the Deductibles stated in The Schedule in respect of each and every loss as ascertained after the application of all other terms and conditions of the policy including any underinsurance.

Warranted that The Insured shall not effect insurance in respect of the amounts of the Deductibles stated in The Schedule.

B.4.1.9. Reinstatement of Policy Limit

At all times during the Period of Insurance of this Policy, the insurance cover will be maintained to the full extent of the respective Sum Insured in consideration of which upon the settlement of any loss under this policy exceeding the amount specified in The Schedule, pro-rata Premium for the unexpired period from the date of such loss to the expiry of Period of Insurance for the amount of such loss shall be payable by The Insured to The Insurer.

The additional Premium referred above shall be deducted from the net claim amount payable under this Policy. This continuous cover to the full extent will be available notwithstanding any previous loss for which The Insurer may have paid hereunder and irrespective of the fact whether the additional Premium as mentioned above has been actually paid or not following such loss. The intention of this condition is to ensure continuity of the cover to The Insured subject only to the right of The Insurer for deduction



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from the claim amount, when settled, of pro-rata Premium to be calculated from the date of loss till expiry of this Policy.

Notwithstanding what is stated above, the Sum Insured shall stand reduced by the amount of loss in case The Insured immediately on occurrence of loss exercises his option not to reinstate the Sum Insured as above.

B.4.1.10. Claims / Payments “on account”

All claims to be paid to The Insured within reasonable time after receipt of satisfactory documentation and the determination of the quantity of the loss presented by the loss adjuster(s) and agreed by The Insurer.

In the event of indemnifiable loss or damage, payment “on account” will be made by The Insurer as early as possible on request if this is approved by The Insurer and where the liability of The Insurer has been established in a preliminary loss report and accepted by The Insurer.

B.4.1.11. Seventy two hours Clause

B.4.1.11.1. Windstorm

Insurers shall not be liable for any loss occurring before the effective date and time of the Policy nor for any loss commencing after the expiration date and time of this Policy. However, The Insurer will be liable for any losses occurring for a period of up to maximum seventy-two (72) hours after the expiration of this Policy, provided that the first windstorm damage occurs prior to the date and time of the expiration of this Policy.

Each loss by windstorm shall constitute a single claim hereunder; provided, if more than one windstorm shall occur within any period of seventy two (72) hours during the term of this Policy such windstorm shall be deemed to be a single windstorm within the meaning thereof.

Official recognised Authority (or as agreed between The Insurer and The Insured) will elect the moment from which each of the aforesaid periods of seventy two (72) hours shall be deemed to have commenced but no two such seventy two (72) hour periods shall overlap.

B.4.1.11.2. Earthquake

Insurers shall not be liable for any loss caused by an earthquake occurring before the effective date and time of this policy nor for any loss commencing after the expiration date and time of this policy. However, The Insurer will be liable for any losses occurring for a period of up to maximum seventy-two (72) hours after the expiration of this Policy, provided that the earthquake damage occurs prior to the date and time of the expiration of this Policy.

Any and all losses caused by earthquake shall constitute a single loss hereunder provided that more that one earthquake shock occurring within any seventy two (72) hour period during the Period of Insurance of this Policy shall be deemed to be a single earthquake within the meaning thereof.

Official recognised Authority (or as agreed between The Insurer and The Insured) will elect the moment from which each of the aforesaid periods of seventy two (72) hours shall be



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deemed to have commenced but no two such seventy two (72) hours periods shall overlap.

B.4.1.11.3. Flood

Insurers shall not be liable for any loss caused by flood occurring before the effective date and time of this policy nor for any loss commencing after the expiration date and time of this policy. However, The Insurer will be liable for any losses occurring for a period of up to maximum seventy-two (72) hours after the expiration of this Policy, provided that the first flood damage occurs prior to the date and time of the expiration of this Policy.

Each loss caused by flood and all losses caused by flood within a seventy-two (72) hours period shall be deemed to constitute a single loss.

Official recognised Authority (or as agreed between The Insurer and The Insured) will elect the moment from which each of the aforesaid periods of seventy two (72) hours shall be deemed to have commenced but no two such seventy two (72) hours periods shall overlap.

B.4.1.12. Time limit

The Insurer is not liable for any loss or damage after the expiration of 24 months from the discovery of the loss or damage unless otherwise agreed in writing or the claim is submitted to a court or arbitration panel within the time prescribed therefore in accordance with applicable law.

The Insurer agrees that any action or proceeding against them for the recovery of any claim under or by virtue of this insurance shall not be barred if commenced within the time prescribed therefore in accordance with applicable law.

B.4.1.13. Arbitration

If any dispute or difference shall arise between The Insured and The Insurer as to the quantum to be paid under this policy (liability being otherwise admitted) such difference shall independently of all other questions be referred to the decision of a sole arbitrator to be appointed in writing by the parties to or if they cannot agree upon a single arbitrator within **30 days** of any party invoking arbitration, the same shall be referred to a panel of three arbitrators, comprising of two arbitrators, one to be appointed by each of the parties to the dispute/difference and the third arbitrator to be appointed by such two arbitrators.

The Arbitration shall be held in **INDIA** at **A PLACE TO BE SELECTED** and conducted under and in accordance with the provisions of the **Arbitration and Conciliation Act of INDIA, 1996** or any statutory modification or re-enactment thereof for the time being in force at the time of the Period of Insurance.

B.4.1.14. Governing law and jurisdiction

This Policy shall be construed according to **INDIAN** laws and The Insurers undertake to submit to the jurisdiction of **INDIAN** Courts in respect of any matter relating to or arising out of this Policy but nothing herein contained shall be held to detract from the force of the arbitration clause above.

B.4.1.15. Disclaimer of liability

If The Insurer disclaims liability in respect of any claim and if conciliation is not commenced



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within 12 (twelve) months of such a disclaimer, all benefits under this Policy of Insurance in respect of that claim shall be forfeited.

B.4.1.16. Nominated Adjustors:

It is hereby understood and agreed, subject otherwise to the terms, conditions and exclusions of the Policy and endorsed hereon that in the event of any loss in respect of this policy the amount of such loss shall be adjusted subject to the terms and conditions of the Policy by any of the approved firms of adjusters.

B.4.1.17. No Control

This Insurance shall not be affected by failure of the Insured to comply with the provisions of the policy in any portion of the property over which the Insured has no control.

B.4.1.18. Disposal of Salvage

Possible salvage value should be deducted from the loss amount and the net claim amount paid to the insured.

B.4.1.19. Waiver of Subrogation

Insurer shall upon reimbursement hereunder to The Insured of any loss, damage or expense be subrogated to all The Insured's rights of recovery against any other person, firm or corporation who may be legally or contractually liable for such loss, damage or expenses so reimbursed by The Insurer, provided that

- if there is a partial reimbursement, subrogation to be restricted to the amount settled.
- The Insurer shall pass on to The Insured such money or monies recovered by them that is in excess of the loss, damage or expenses so received by The Insured.

The Insurer shall waive its rights of subrogation against all Insured Parties provided no Act of default including criminal or deliberate or fraudulent acts committed by any Insured Party or its Representatives has caused any loss or damage to any other Insured Party. It is agreed that The Insurers may make a claim upon and institute legal proceedings against any parties believed responsible for loss, damage or expense reimbursed hereunder in the name of The Insured, and The Insured shall provide The Insurer his full co-operation in pursuing such claim or legal proceedings.

The Insured shall at The Insurer's expense do and concur in doing and permit to be done all actions that may be necessary or required by The Insurer in the interest of any rights or remedies or for the purpose of obtaining relief or indemnity to which The Insurer is or would become entitled or which is or would be subrogated to him upon indemnification or rectification of any loss or damage under this Policy of Insurance, regardless of whether such action is or becomes necessary or required before or after The Insured's indemnification by The Insurer.

Except as specifically provided or permitted by this policy, The Insured shall not waive, release or diminish rights of recovery or subrogation with respect to any claim which, upon payment thereof by Insurers, would otherwise belong or accrue Insurers, and insofar as and to the extent that any action by The Insured waives, releases or diminishes the rights of



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recovery or subrogation in respect of such claim, The Insured shall have no liability under this policy.

B.4.1.20. Loss Payee

Loss is payable to The Insured or as directed by The Insured, which shall include such party who has an insured interest in the subject matter insured at the time of loss or damage.

B.5. SECTION III -BUSINESS INTERRUPTION OR SPECIFIED STANDING CHARGES AND/OR INCREASED COST OF WORKING**B.5.1. Definitions**

Annual turnover	means the turnover which, had the interruption of or interference with the business insured not occurred, would have been achieved during the twelve months preceding either the date when the business insured is no longer affected or when the indemnity period ends, whichever is the earlier.
Business Insured	Means the commercial operation of the Property Insured specified in The Schedule to this section.
Gross Profit	Means the amount by which the value of the turnover and the value of the closing stock and work in progress exceed the value of the opening stock and work in progress and the amount of the specified working expenses. (Uninsured Working Expenses). The value of the opening and closing stocks and work in progress shall be calculated in accordance with The Insured's normal accounting methods, due provisions being made for depreciation.
Increased Cost of Working	Means the additional expenditure necessarily and reasonably incurred for the sole purpose of avoiding or diminishing the loss of interest insured, which, without such expenditure, would have taken place.
Interest Insured	Means either the Gross Profit including any Increased Cost of Working or the specified standing charges including any Increased Cost of Working.
Monetary deductible	Means the amount to be deducted from any payment otherwise to be made by the Insurer.
Maximum indemnity period	Means the maximum period(s) stated in The Schedule in respect of which cover is afforded for the Interest Insured by this operational business interruption section, beginning subsequent to the occurrence of the Damage and ending not later than the period as specified in The Schedule during which the results of the Business shall be affected in consequence of the damage.
Rate of Gross Profit	Means the percentage of Gross Profit which, had the interruption of or interference with the Business Insured not occurred, would have been earned on the Annual turnover.
Specified standing charges	means any fixed costs specified in The Schedule which continue to be payable in full during the indemnity period
Specified working Charges	means any costs incurred for the acquisition of goods, raw materials, chemicals and portion of utilities consumption or auxiliaries as well as for supplies unless required



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	for the upkeep of operations and any costs for packaging, carriage, freight, intermediate storage, turnover tax, purchase tax, licence fees and royalties, insofar as such costs are dependent on turnover.
Turnover	Means the amount of money (less discounts allowed) paid or payable to The Insured for goods, products or services sold, delivered or rendered in the course of the Business Insured.

B.5.2. Insuring Clause

Loss of gross profit (the actual loss sustained) during the indemnity period resulting from a reduction in turnover including any increased cost of working due to an interruption of the Insured's Business following loss of or damage to any property and/or assets (including Stocks at plants) insured and recoverable under the Property Damage section.

B.5.3. Indemnification

The indemnity for the loss of Interest Insured shall be in respect of:

- a) Gross Profit, the loss actually sustained during the indemnity period resulting from a reduction in turnover including any Increased Cost of Working
- Or
- b) Specified standing charges, the amount actually not earned during the indemnity period resulting from a reduction in turnover including any Increased Cost of Working.

The indemnity shall not exceed the Sum Insured for the maximum indemnity period.

B.5.4. Sum Insured

The Sum Insured shall be

- (a) the annual Gross Profit specified in The Schedule
- or
- (k) the annual specified standing charges.

Should the indemnity period exceed twelve months, the Gross Profit or the specified standing charges shall be the pro rata amount for that period.

B.5.5. Period of Insurance

The Period of Insurance shall be the period specified in The Schedule.

Should at any time after the commencement of this Policy of Insurance

- (a) the business be wound up or carried on by a liquidator or receiver or administrator or be permanently discontinued,
- (l) The Insured's interest cease otherwise than by death,

then the cover under this Section shall cease on the respective date unless specifically agreed by The Insurer in writing.



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B.5.6. Indemnity period

The indemnity period shall be the period during which the Interest Insured is affected by an interruption of or interference with the Business Insured beginning on the date of the occurrence of loss or damage and not exceeding the maximum indemnity period specified in The Schedule.

B.5.7. Premium

A deposit Premium shall be paid at the inception of this Policy of Insurance and shall be calculated by multiplying the Sum Insured by the Premium Rate.

If The Insured declares at the latest six months after the expiry of any Period of Insurance that the Gross Profit earned during the accounting period of twelve months most closely concurrent with any Period of Insurance, as certified by The Insured's auditors, was less than the Sum Insured thereon, a pro rata return of Premium not exceeding one-third of the Premium paid on such Sum Insured for such Period of Insurance shall be made in respect of the difference.

If any loss or damage has occurred giving rise to any payment under this Section then the amount of any such payment shall be added to the Gross Profit as certified by The Insured's auditors and any return of Premium shall be based on the difference between such sum and the Sum Insured.

B.5.8. Time excess and monetary Deductible

In any one occurrence of loss or damage the insurer shall not be liable for the amount obtained by multiplying the average daily value of the Interest insured of the production line(s) having sustained an indemnifiable loss by the number of days specified in The Schedule as the time excess plus any additional monetary Deductible agreed or for the amount of any monetary Deductible specified in The Schedule, whichever is higher.

B.5.9. Additional Exclusions for Business Interruption

In addition to the exclusions under General Conditions of this Policy of Insurance this Section III shall not cover any loss resulting from interruption of or interference with the Business directly or indirectly attributable to any of the following causes:

- (m) loss of Interest Insured due to an interruption of or interference with the Business Insured resulting from:
- (n) loss or damage covered under the operational material damage Section by way of endorsement, unless expressly specified as covered in The Schedule;
- (o) earthquake, volcanic eruption or tsunami, unless expressly specified as covered in The Schedule and/or endorsed to this Policy of Insurance;
- (p) any restrictions imposed by public authority, including restrictions imposed on reconstruction or operation;
- (q) Consequential Loss due to causes such as suspension, lapse or cancellation of a lease, licence or order, etc., which occurs after the date when the items lost, destroyed or damaged are in operating condition again and the Business Insured could have been



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resumed if said lease, licence or order, etc. had not lapsed or had not been suspended or cancelled

- (r) loss or damage due to abnormal conditions directly or indirectly resulting from experimental testing, testing during the first 72 hours continuous operation of performance/acceptance tests or intentional overloading beyond approved safety limits;
- (s) shortage, destruction, deterioration of or damage to raw materials, semi-finished or finished products or other materials required for proper operation, even if the consequence of material damage to an item indicated in the list of Property Insured is involved
- (t) Erasure, loss, distortion or corruption of information on computer systems or other records or software programs unless resulting from an occurrence of loss or damage indemnifiable under the operational material damage section.
- (u) Loss or damage for which the manufacturer or supplier of the property is responsible either by law or under contract.
- (v) The Insured not having at his disposal
- (w) in good time sufficient capital for repairing or replacing destroyed or damaged machinery;
- (x) The Insurer shall not be liable for the amount of any fines or damages for breach of contract, for late or non-completion of orders, or for penalties of whatever nature.

B.5.10. Special Conditions pertaining to Claims notification and The Insured's special obligations following an occurrence of loss or damage

- (a) The Insured shall be obliged to keep for the Period of Insurance complete records of the Business Insured, including without limitation - inventories, production and balance sheets for the three preceding years. All records shall be held in safekeeping and, as a precaution against their being simultaneously destroyed, The Insured shall keep separate sets of such records.
- (b) In the event of any occurrence of loss or damage which might cause an interruption of or interference with the Business Insured
 - i. The Insured shall immediately notify The Insurer and send it written confirmation thereof within forty-eight hours of the occurrence;
 - ii. The Insurer and The Insurer's Agents shall have unlimited access to the Premises to establish the possible cause and extent of the loss or damage, its effect on the Interest Insured, to examine the possibilities for minimizing the interruption of or interference with the Business Insured, and if necessary to make reasonable recommendations for the avoidance or minimization of such interruption or interference;
 - iii. The Insurer and The Insurer's Agents shall have the right to enter any building where the loss has happened and may take possession of or require that any of the damaged Property Insured be rendered to them and may keep possession of and deal with such damaged Property Insured for all reasonable purposes and in any



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reasonable manner. This condition shall be evidence of the leave and licence of The Insured to The Insurer so to do.

- (c) If The Insured or anyone acting on his behalf hinders or obstructs The Insurer in any way or does not comply with any recommendations The Insurer may make pursuant to clause B.3.10 (b) above, all benefits under this Section shall be forfeited.
- (d) In the event of a claim being made under this section, The Insured shall at his own expense deliver to The Insurer not later than thirty days after the interruption of or interference with the Business Insured or within such further periods as The Insurer may allow in writing a written statement setting forth particulars of the claim.
- (e) The Insured shall at his own expense produce and furnish to The Insurer such books of account and other business books or other evidence as may reasonably be required by The Insurer for the purpose of investigating or verifying the claim together with, if required, a statutory declaration of the truth of the claim and of any matters connected therewith.

B.5.11. Conditions for Loss settlement under Section III

In the event of an interruption of or interference with the Business Insured the basis of loss settlement under this Section shall be as follows:

B.5.11.1. Loss of Gross Profit

In respect of loss of Gross Profit, The Insurer shall pay the amount obtained by multiplying the Rate of Gross Profit with the amount by which the actual turnover during the indemnity period falls short of the turnover, which would have been achieved, had the loss or damage not occurred.

If the annual Sum Insured hereunder is less than the amount obtained by multiplying the Rate of Gross Profit by the Annual turnover or, if the indemnity period exceeds twelve months, the turnover calculated for the equivalent period, the amount payable shall be reduced proportionately.

B.5.11.2. Specified standing charges

In respect of specified standing charges, The Insurer shall pay the amount obtained by multiplying the percentage by which the actual turnover during the indemnity period falls short of the turnover which would have been achieved had the interruption of or interference with the Business Insured not occurred by the amount of specified standing charges incurred during the interruption or interference.

If the Sum Insured hereunder is less than the amount obtained by multiplying the Rate of Gross Profit by the Annual turnover or, if the indemnity period exceeds twelve months, the pro rata turnover for that period, the amount payable shall be reduced proportionately.

B.5.11.3. Calculation of Rate of Gross Profit and Annual turnover

In calculating the Rate of Gross Profit and Annual turnover, the following aspects shall be taken into consideration:

- (a) the trend of the Business Insured;



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- (b) the results of the Business Insured during the financial year preceding the date of the loss or damage or, in the event of the loss or damage occurring during the first year of commercial operation, the turnover during the following financial year;
- (c) any circumstances affecting the Business Insured either before or after loss or damage or which would have affected the Business Insured had the loss or damage not occurred;
- (d) any benefits from deferred sales or from increased production and/or profits as a consequence of an interruption of or interference with the Business Insured which The Insured may receive during a period of six months immediately following the re-commissioning of insured plant and/or machinery after a loss or damage;
- (e) allowance for the time spent on any overhauls, inspections or modifications carried out during the period the Business Insured was affected by any interruption or interference;
- (f) any money paid or payable in respect of goods which are sold or services which are rendered elsewhere than at the Premises for the benefit of the Business Insured either by The Insured or by another party acting on his behalf;
- (g) any amount saved during the indemnity period in respect of any charges and expenses of the business payable out of the Gross Profit that may cease or be reduced in consequence of loss or damage.

The final figures shall represent as closely as may be deemed reasonable the results, which the Business Insured would have achieved, had the loss or damage not occurred

B.5.11.4. Payment of Indemnity

- B.5.11.4.1. Subject to clause B.3.11.5.3 below The Insurer shall pay The Insured any amount due under this Section one month after final determination of the amount due.
- B.5.11.4.2. The Insured may, one month after The Insurer has been duly notified of the loss of Interest Insured and has acknowledged its liability, claim as advance payment(s) the minimum amount(s) The Insurer agrees are payable.
- B.5.11.4.3. The Insurer shall be entitled to postpone payment beyond the period set out in B.3.11.5.1 above if
 - (a) there are doubts as to The Insured's right to receive payment, in which case payment shall not become due until such time as the necessary proof is furnished by The Insured or The Insurer accepts liability;
 - (b) as a result of any loss or damage or any interference with or interruption of the Business Insured, police or criminal investigations have been initiated against The Insured, in which case payment will not become due until the completion of such investigations, provided always that if The Insured is convicted of any offence in respect of any claim for indemnity under this Policy of Insurance, the insurance cover under this Section shall be void.



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B.5.11.4.4. The Insurer shall not be liable to pay interest on indemnity withheld other than interest for default.

B.5.12. Provisions to Section III

B.5.12.1. Value Added Tax

To the extent that The Insured is accountable to the tax authorities for Value Added Tax, all terms in this Policy of Insurance shall be exclusive of such tax.

B.5.12.2. Current Cost Accounting Adjustment

For the purpose of the definitions in B.3.1, any adjustment implemented in current cost accounting shall be disregarded.

B.5.13. Special Conditions pertaining to Section III

B.5.13.1. Alternative Basis

It is agreed and declared that at the option of the Insured, the term "Output" may be substituted for the term "Turnover" and for the purpose of this Section of Policy "Output" shall mean the sale value of goods manufactured by the Insured in the course of the Business at the premises, Provided that only one such meaning shall be operative in connection with any one occurrence involving Damage (as herein defined).

B.5.13.2. Professional Accountants:

Any particulars or details contained in The Insured's books of account or other business books or documents which may be required by The Insurer for the purpose of investigating or verifying any claim hereunder may be produced by professional accountants &/or Solicitor if at the time they are regularly acting as such for The Insured and their report shall be prima facie evidence of the particulars and details to which such report relates.

The Insurer will pay to The Insured the reasonable charges payable by The Insured to their professional accountants &/or Solicitor for producing such particulars or details or any other proofs, information or evidence as may be required by The Insurer and reporting that such particulars or details are in accordance with The Insured's books of account or other business books or documents provided that the sum of the amount payable under this clause shall not exceed the limit stated in The Schedule and the amount otherwise payable under the Policy of Insurance shall in no case exceed the liability of The Insurer as stated.

B.5.14. Additional Memoranda for Business Interruption

B.5.14.1. Departmental Clause

If the Business be conducted in Departments, the independent trading results of which are ascertainable the indemnity provisions of clauses 1 a) and 1 b) of the item of Gross Profit shall apply separately to each Department affected by the incident.



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If during the indemnity Period goods shall be sold or services shall be rendered elsewhere than at the premises for the benefit of the Business either by the Insured or by others on their behalf the money paid or payable in respect of such sales or services shall be brought into account in arriving at the Turnover during the Indemnity Period.

B.5.14.3. Group Interdependency

Loss as insured by this section of the policy of insurance resulting from interruption of or interference with the business in consequence of loss or damage to property whether or not insured under material damage section of the policy and situated at any other premises in territorial limits owned and /or occupied and/or used by the insured for the purpose of business insured or any other business shall be deemed to be insured.

B.5.14.4. Accumulated stocks

In adjusting any loss, account shall be taken and an equitable allowance made if any shortage in turnover due to damage is postponed by reasons of the turnover being temporarily maintained from accumulated stocks of finished goods owned by the Insured.

B.5.14.5. Outage clause

This clause defines the period from the time the breakdown of any equipment resulting in shut down of unit resulting in shut down of unit till the unit is synchronized and achieved full load or in operation for 72 hours since operation, whichever is earlier.

B.5.14.6. Additional increased Cost of Working

It is hereby agreed and declared that notwithstanding anything contained herein to the contrary, this coverage extends to cover costs and expenses necessarily and reasonably incurred during the indemnity period in consequence of the 'damage' for the purpose of maintaining the business, it being understood that if any such costs is of a capital asset nature then account shall be taken of the residual value of such capital items so involved existing at the end of the maximum indemnity period.

B.5.14.7. Premium adjustment

The premium hereunder this Section III is provisional and shall be calculated on the basis as shown in the Schedule of this policy.

At the expiry of this policy the Insured shall declare the Actual Gross profit Earned during the policy period suitably adjusted to reflect the period of indemnity and in the event of this being less than the sum insured thereon a return of premium not exceeding 50% of the premium paid for the Policy period will be made in respect of the differences. If the Annual Gross Profit is more than the sum insured mentioned in the Policy, no additional premium would be payable. However, in such a contingency, the insurer shall be considered as being his own insurer for the difference and shall bear a rateable proportion of loss.

If any damage shall have occurred, giving rise to a claim under this policy such premium adjustment shall be made in respect only of so much of the said difference as is not due to such damage.



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B.5.15. Additional Extensions to Section III**B.5.16. Power and Utilities extension**

Subject to the sublimit shown in The Schedule

this Section III of the Policy of Insurance extends to include insured interest as defined in B.3.3. of this Section III for interruption of or interference with The Insured's operation during the period of failure that exceeds the agreed time excess and resulting from Loss or Damage (as within defined) which occurs within the term of this Policy of Insurance to:

- (a) Gas, Fuel, Water, Steam, Electricity all situated on or outside The Insured's Locations
- (b) Dams, Reservoirs or Equipment connected therewith where water, used as Raw Material or for other manufacturing purposes stored behind such Dams or Reservoirs is released from storage and causes an interruption of business as a result of lack of Water Supply from such sources, limited however to not exceeding 60 consecutive days after such length of time as would be required with the exercise of due diligence and dispatch to repair or replace the damaged or destroyed Dam, reservoir or Equipment

Provided that after application of all the terms and conditions of this Policy of Insurance, the liability of The Insurer under this Section of the Policy of Insurance shall not exceed 17% of Business Interruption Sum Insured.

The Insurer shall not be liable for any loss resulting from the interruption of supply directly or indirectly attributable to:

- (c) rationing, which was not caused by unforeseen material loss or damage to the public supply;
- (d) water shortage due to climatic or meteorological conditions;
- (e) the production in The Insured's plant still being interrupted or disturbed after the resumption of the public supply, unless otherwise agreed.
- (f) Any loss beyond the first tier of Utility Supplier
- (g) Any other Utility supplier apart from the names mentioned in the policy schedule. Unnamed utility Service provider not is not covered under the policy.

B.5.17. Specified Customers (as named in The Schedule)

Subject to the sublimit shown in The Schedule

This Section is extended to include the actual loss of Gross Profit sustained as a result of direct accidental physical loss or accidental physical damage to property (including pipelines of) one or more of The Insured's direct and first tier customer's premises arising out of FLEXA and AOG perils which would have been Insured under Section I of this Policy of Insurance.

Provided that after the application of all other terms, conditions and provisions of the Policy of Insurance the liability under this extension in respect of any one occurrence shall not exceed the maximum indemnity periods under Section III of this Policy of Insurance.



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For the purposes of this Extension the term “customers” means those companies, organisations or individuals as named in The Schedule with whom at the time of the damage, The Insured has contracts or trading relationships for supply of goods or services.

B.5.18. Customers/Fabricators/Processors/Suppliers (as agreed in The Schedule)

Subject to the sublimit shown in The Schedule

This Section is extended to include the actual loss of Gross Profit sustained as a result of direct accidental physical loss or accidental physical damage to property (including pipelines) of The Insured's third party sub-contractors arising out of FLEXA and AOG only, which would have been insured under Section I of this Policy of Insurance.

Provided that after the application of all other terms, conditions and provisions of policy the liability under this extension in respect of any one occurrence shall not exceed the 20% of the BI SI as mentioned in the schedule and maximum indemnity periods under Section III of this Policy of Insurance but always subject to the Sum Insured stated in the Particular Conditions.

For the purposes of this Extension the term “customers” means those companies, organisations or individuals as named in The Schedule with whom at the time of the damage, The Insured has contracts or trading relationships for supply of goods or services.

B.5.19. Prevention of Access

Insurers shall be liable for a loss, damage or destruction as covered hereunder by any Peril insured against during the period of time access to or egress from property described in B.3.1 of this Section is prevented as a direct result of loss by a peril insured in the vicinity of the said location(s) subject to a maximum indemnity period as specified in The Schedule.

EXTENSIONS APPLICABLE TO SECTION I, II & III**AGREED BANK CLAUSE**

It is hereby declared and agreed:-

That upon any monies becoming payable under this policy the same shall be paid by the Company to the Bank and such part of any monies so paid as may relate to the interests of other parties insured hereunder shall be received by the Bank as Agents for such other parties.

That the receipts of the Bank shall be complete discharge of the Company therefore and shall be binding on all the parties insured hereunder.

N.B: The Bank shall mean the first named Financial Institution/ Bank named in the policy.

That if and whenever any notice shall be required to be given or other communication shall be required to be made by the Company to the insured or any of them in any manner arising under or in connection with this policy such notice or other communication shall be deemed to have been sufficiently given or made if given or made to the Bank.



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That any adjustment, settlement, compromise or reference to arbitration in connection with any dispute between the Company and the insured or any of them arising under or in connection with this policy if made by the Bank shall be valid and binding on all parties insured hereunder but not so as to impair rights of the Bank to recover the full amount of any claim it may have on other parties insured hereunder.

- i. That any adjustment, settlement, compromise or reference to arbitration in connection with any dispute between the Company and the insured or any of them arising under or in connection with this policy if made by the Bank shall be valid and binding on all parties insured hereunder but not so as to impair rights of the Bank to recover the full amount of any claim it may have on other parties insured hereunder.
- ii. That this insurance so far only as it relates to the interest of the Bank therein shall not cease to attach to any of the insured property by reason of operation of condition 3 of the Policy except where a breach of the condition has been committed by the Bank or its duly authorised agents or servants and this insurance shall not be invalidated by any act or omission on the part of any other party insured hereunder whereby the risk is increased or by anything being done to upon or any building hereby insured or any building in which the goods insured under the policy are stored without the knowledge of the Bank provided always that the Bank shall notify the Company of any change of ownership or alterations or increase of hazards not permitted by this insurance as soon as the same shall come to its knowledge and shall on demand pay to the Company necessary additional premium from the time when such increase of risks first took place and
- iii. It is further agreed that whenever the Company shall pay the Bank any sum in respect of loss or damage under this policy and shall claim that as to the Mortgagor or owner no liability therefore existed, the Company shall become legally subrogated to all the rights of the Bank to the extent of such payments but not so as to impair the right of the Bank to recover the full amount of any claim it may have on such Mortgagor or Owner or any other party or parties insured hereunder or from any securities or funds available.

N.B: In cases where the name of any Central Government or State Government owned and / or sponsored Industrial Financing or Rehabilitation Financing Corporations and /or Unit Trust of India or General Insurance Corporation of India and/or its subsidiaries or LIC of India/ any Financial Institution is included in the title of the Fire Policy as mortgages, the above Agreed Bank Clause may be incorporated in the Policy substituting the name of such institution in place of the word 'Bank' in the said clause.



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Bankers Details:

Sr. No.	Name of Financers
1.	IDBI Bank Ltd - 2 nd floor, Mafalal Center, Nariman Point, Mumbai-400005
2.	Axis Bank Ltd - G Pullareddy Building, Ground Floor, Greenlands, Hyderabad-500016
3.	Union Bank of India - The Grand, first Floor, Raj Bhawan Road, Hyderabad
4.	Karnataka Bank Ltd - Credit Dept., 8-B, Upper Ground Floor, Rajendra Park, Pusa Road, New Delhi - 110 060
5.	India Infrastructure Finance Co., Ltd (A Govt. of India Enterprise) - Hindustan Times building 18 & 20, Kasturba Gandhi Marg, New Delhi New Delhi 110 001.
6.	Oriental Bank of Commerce - Plot.No.52, Road No.5, Jubli Hills Branch, LCB, Hyderabad-500033
7.	Bank of Baroda - 3-6-262/6, 3rd Floor, Tirumala Estate Building, Old MLA Quarters, Himayat Nagar, Hyderabad-500029
8.	Bank of India - Hyderabad Corporate Banking Branch, First Floor, PTI Building, AC Guards, Hyderabad-500004
9.	Punjab & Sind Bank - P-18/90, Industrial Finance Branch, 1st Floor, Madras Hotel Building, Connaught Circus, New Delhi-110001
10.	Indian Bank - Hyderabad Main Branch, Surabhi Arcade, Bank Street, Hyderabad-500001
11.	Life Insurance Corporation of India - LIC Branch, Yogakshema (west wing) Sixth Floor Nariman Point, Mumbai-400021
12.	United Bank of India - 4-3-331, Bank Street, Koti, Hyderabad-500195
13.	UCO Bank - Flagship Corporate Center, Mafatlal Centre, 1st Floor, Nariman Point, Mumbai-400021

CANCELLATION CLAUSE

This policy may be terminated at any time at the written request of the Insuring Party with seven days' notice.

The Insurer may cancel this Policy by giving the Insuring Party not less than 30 days prior written notice.

In either case, pro-rata daily return of Premium shall be payable to the Insuring Party for the unexpired period from the date of termination.

Note: The definitions, terms and conditions of the Policy save as modified or endorsed herein shall apply.



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CLAUSES ATTACHED TO THE POLICY

1. DESIGNATION OF PROPERTY CLAUSE

For the purpose of determining, where necessary, the item under which any property is insured, the insurers agree to accept the designation under which the property has been entered in the insured's books.

2. NOMINATED LOSS ADJUSTERS;

Mumbai	Proclaim Insurance Surveyors and Loss Assessors Private Limited
Delhi	Protocol Insurance surveyors & Loss Assessors Pvt. Ltd.
Mumbai	Bhatawadekar Insurance Surveyors & Loss Assessors Pvt. Ltd.

3. COINSURANCE CLAUSE

It is hereby confirmed that the coinsurance clause under this policy is governed by the Coinsurance Agreement dated 20th February 2009 of the General Insurance Council. This agreement, inter alia, lays down guidelines as follows:

- The Lead Insurer shall be responsible for the terms and conditions of the coverage, handling premiums and claims (including their investigation, settlement and payment).
- Premium shall be paid by the Insured to the Lead Insurer and then shall be paid by the Lead Insurer to co-insurers as per their allocated share after deduction of any policy handling / administration charges.
- Similarly Claim expenses and payments shall be paid by the Lead Insurer to the Insured in the first place and shall be recovered by the Lead Insurer from the co-insurers as per their allocated shares under the policy. The Insurers named hereunder severally and jointly agree each for the proportion set against thereto to pay / make good to the Insured the actual loss or damage to the property insured arising from the perils covered.
- For large claims of above Rs.1 Cr, the Lead Insurer has the liberty to call upon the co-insurer(s) to remit their proportion of the liability in advance within 21 days from the date of receipt of such call. Failure to comply with such demand shall render the defaulting co-insurer(s) to pay interest at 10% per annum after the expiry of the stipulated period of 21 days, until it is paid in full.

Provided That:

1. The liability of the Insurers shall in no case exceed in respect of each item of the sum insured thereon or in whole, the total sum insured thereby or such other sum or sums as may be substituted thereof by endorsement.
2. The liability of the Insurers individually in respect of such loss or damage shall be limited to the proportion set against its name or such proportion as may be substituted thereof by endorsement.



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It is hereby declared and agreed that the Insurers named hereunder as per the Policy Schedule – List of Participating Insurers severally agreed each for the proportion set against their name.

- a) To pay or make good to the Insured the value of the property at the time of the happening of its loss or destruction or the amount of such damage thereto as provided for under the policy and/or
- b) To indemnify the Insured against liability at law for damage to property and/or injuries to persons as provided for under the policy.

Subject otherwise to the terms, exceptions, conditions and limitations of this policy.

GENERAL EXCLUSIONS (APPLICABLE TO ALL SECTIONS)

Notwithstanding any provision to the contrary within this Policy or any endorsement thereto it is agreed that this Policy excludes loss, damage, cost or expense of whatsoever nature directly or indirectly caused by, resulting from or in connection with any of the following regardless of any other cause or event contributing concurrently or in any other sequence to the loss:

4. POLITICAL RISKS EXCLUSION

Notwithstanding any provision to the contrary within this Policy or any endorsement thereto it is agreed that this Policy excludes loss, damage, cost or expense of whatsoever nature directly or indirectly caused by, resulting from or in connection with any of the following regardless of any other cause or event contributing concurrently or in any other sequence to the loss:

- (a) war (whether declared or not), invasion, acts of foreign enemies, hostilities or warlike operations (whether war be declared or not), civil war, rebellion, revolution, insurrection, mutiny, conspiracy, military or usurped power, confiscation, nationalization, commandeering, requisition or destruction or damage by or under the order of any government de jure or de facto or by any public or local authority, civil commotion assuming the proportions of or amounting to an uprising;; or
- (b) any act of terrorism.

For the purpose of this clause an act of terrorism means an act, including but not limited to the use of force or violence and/or the threat thereof, of any person or group(s) of persons, whether acting alone or on behalf of or in connection with any organisation(s) or government(s), committed for political, religious, ideological, or ethnic purposes or reasons including the intention to influence any government and/or to put the public, or any Section of the public, in fear.

This clause also excludes loss, damage, cost or expense of whatsoever nature directly or indirectly caused by, resulting from or in connection with any action taken in controlling, preventing, suppressing or in any way relating to (1) and/or (2) above.

If The Insurer alleges that by reason of this exclusion, any loss, damage, cost or expense



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is not covered by this Policy the burden of proving the contrary shall be upon the Insured.

5. RADIOACTIVE CONTAMINATION

Nuclear reaction or nuclear radiation or radioactive contamination, all whether controlled or uncontrolled, and whether such loss be direct or indirect, proximate or remote, or be in whole or in part caused by, contributed aggravated by the peril(s) insured hereunder, including the following:

- (y) ionising radiations from or contamination by radioactivity from any nuclear fuel or from any nuclear waste or from combustion of nuclear fuel
- (z) the radioactive, toxic, explosive or other hazardous or contaminating properties of any nuclear installation, reactor or other nuclear assembly or nuclear component thereof
- (aa) any weapon of war, missile or like employing atomic or nuclear fission and / or fusion or other like reaction or radioactive force or matter
- (bb) nuclear reaction, nuclear radiation or radioactive contamination

6. WAR AND CIVIL WAR EXCLUSION

Notwithstanding anything to the contrary contained herein this policy does not cover Loss or Damage directly or indirectly occasioned by, happening through or in consequence of war, invasion, acts of foreign enemies, hostilities (whether war be declared or not), civil war, rebellion, revolution, insurrection, military or usurped power or confiscation or nationalization or requisition or destruction of or damage to property by or under the order of any government or public or local authority.

7. ELECTRONIC DATA ENDORSEMENT B**Electronic Data Exclusion**

Notwithstanding any provision to the contrary within the policy or any endorsement thereto, it is understood and agreed as follows:

- (a) This policy does not insure loss, damage, destruction, distortion, erasure, corruption or alteration of electronic data from any cause whatsoever (including but not limited to COMPUTER VIRUS) or loss of use, reduction in functionality, cost, expense of whatsoever nature resulting therefrom, regardless of any other cause or event contributing concurrently or in any other sequence to the loss.

ELECTRONIC DATA means facts, concepts and information converted to a form usable for communications, interpretation or processing by electronic and electromechanical data processing or electronically controlled equipment and includes programmes, software and



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other coded instructions for the processing and manipulation of data or the direction and manipulation of such equipment.

COMPUTER VIRUS means a set of corrupting, harmful or otherwise unauthorised instructions or code including a set of maliciously introduced unauthorised instructions or code, programmatic or otherwise, that propagate themselves through a computer system or network of whatsoever nature. COMPUTER VIRUS includes but is not limited to 'Trojan Horses', 'worms' and 'time or logic bombs'.

(b) However, in the event that a peril listed below results from any of the matters described in paragraph (a) above, this policy, subject to all its terms, conditions and exclusions will cover physical damage occurring during the policy period to property insured by this policy directly caused by such listed peril.

Listed perils

Fire

Explosion

Electronic Data Processing Media Valuation

Notwithstanding any provision to the contrary within the policy or any endorsement thereto, it is understood and agreed as follows:

Should electronic data processing media insured by this policy suffer physical loss or damage insured by this policy, then the basis of valuation shall be the cost of the blank media plus the costs of copying the ELECTRONIC DATA from back-up or from originals of a previous generation. These costs will not include research and engineering nor any costs of recreating, gathering or assembling such ELECTRONIC DATA. If the media is not repaired, replaced or restored the basis of valuation shall be the cost of the blank media. However this policy does not insure any amount pertaining to the value of such electronic data to the assured or any other party, even if such electronic data cannot be recreated, gathered or assembled.

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8. ELECTRONIC DATE RECOGNITION CLAUSE EDRC (B)

SECTION 1

This insurance does not cover any loss, damage, cost, claim or expense, whether preventive, remedial or otherwise, directly or indirectly arising out of or relating to:



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(a) The calculation, comparison, differentiation, sequencing or processing of data involving the date change to the year 2000, or any other date change, including leap year calculations, by any computer system, hardware, programme or software and/or any microchip, integrated circuit or similar device in computer equipment, whether the property of the insured or not; or

(b) Any change, alteration or modification involving the date change to the year 2000 or any other date change, including leap year calculations, to any such computer system, hardware, programme or software or any microchip, integrated circuit or similar device in computer equipment or non-computer equipment, whether the property of the insured or not.

This clause applies regardless of any other cause or event that contributes concurrently or in any sequence to the loss, damage, cost, claim or expense.

However this section shall not apply in respect of physical damage occurring at the insured's premises arising out of perils of fire, lightning, explosion, aircraft or vehicle impact, falling objects, windstorm, hail, tornado, hurricane, cyclone, riot, strike, civil commotion, vandalism, malicious mischief, earthquake, volcano, tsunami, freeze or weight of snow.

SECTION 2

Notwithstanding section 1 above, this insurance does not cover any cost and expense, whether preventive, remedial or otherwise, arising out of or relating to change, alteration or modification of any computer system, hardware, programme or software or any microchip, integrated circuit or similar device in computer equipment or non-computer equipment, whether the property of the insured or not.

SECTION 3

The date change to the year 2000, or any other date change, including leap year calculations, shall not in and of itself be regarded as an event for the purposes of this insurance.

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9. TERRORISM EXCLUSION CLAUSE

Notwithstanding any provision to the contrary within this insurance or any endorsement thereto it is agreed that this insurance excludes loss, damage, cost or expense of whatsoever nature directly or indirectly caused by resulting from or in connection with any of the following regardless of any other cause or event contributing concurrently or in any other sequence to the loss:



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Any act of terrorism and sabotage.

For the purpose of this endorsement an act of terrorism means an act, including but not limited to the use of force or violence and/or the threat thereof, of any person or group(s) of persons, whether acting alone or on behalf of or in connection with any organization(s) or government(s), committed for political, religious, ideological or similar purposes including the intention to influence any government and/or to put the public or any section of the public, in fear.

This endorsement also excludes loss, damage, cost or expense of whatsoever nature directly or indirectly caused by, resulting from or in connection with any action taken in controlling, preventing, suppressing or in any way relating to above cause.

If the insurers allege that by reason of this exclusion, any loss, damage, cost or expense is not covered by this insurance the burden of proving the contrary shall be upon the assured. In the event any portion of this endorsement is found to be invalid or unenforceable, the reminder shall remain in full force and effect.

10. TOXIC MOULD EXCLUSION CLAUSE

Notwithstanding anything to the contrary contained in the Policy, Insurers will not pay for loss, damage, cost or expense caused directly or indirectly by, arising out of, resulting from, contributed to by, or related in any way to "mould". Loss, damage, cost or expense caused directly or indirectly by, arising out of, resulting from, contributed to by, or related in any way to "mould" is excluded regardless of any other cause or event that contributed concurrently, or in any sequence with, the loss, damage, cost or expense.

For the purpose of any exclusion, the following definition is added to this Policy:

"Mould" means by species of fungi including, but not limited, to, mould, yeast, mildew, spores, mould toxins, mycotoxins, mould metabolites, mould antigens, mould allergens, smut, wet or dry rot, mould-produced antibiotics, or dust or fumes containing any of the foregoing, individually, or in any combination therewith or with another substance.

11. INSTITUTE EXTENDED RADIOACTIVE CONTAMINATION EXCLUSION CLAUSE 01.11.2002.

This clause shall be paramount and shall override anything contained in this insurance inconsistent therewith.

1. In no case shall this insurance cover loss damage liability or expense directly or indirectly caused by or contributed to by or arising from
2. Ionising radiations from or contamination by radioactivity from any nuclear fuel or from any nuclear waste or from the combustion of nuclear fuel



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Policy no.1012/115897379/06/000

3. The radioactive, toxic, explosive or other hazardous or contaminating properties of any nuclear installation, reactor or other nuclear assembly or nuclear component thereof
4. Any weapon or device employing atomic or nuclear fission and/or fusion or other like reaction or radioactive force or matter
5. The radioactive, toxic, explosive or other hazardous or contaminating properties of any radioactive matter. The exclusion in this sub-clause does not extend to radioactive isotopes other than nuclear fuel, when such isotopes are being prepared, carried, stored or used for commercial, agricultural, medical, scientific or other similar peaceful purposes.

12. BIOLOGICAL AND CHEMICAL MATERIAL EXCLUSION CLAUSE

It is agreed that this Insurance excludes loss, damage, cost or expense of whatsoever nature directly or indirectly caused by, resulting from or in connection with the actual or threatened malicious use of pathogenic or poisonous biological or chemical materials regardless of any other cause or event contributing concurrently or in any other sequence thereto.

NMA 2962

13. SANCTION AND EMBARGO CLAUSE

No (re)insurer shall be deemed to provide cover and no (re)insurer shall be liable to pay any claim or provide any benefit hereunder to the extent that the provision of such cover, payment of such claim or provision of such benefit would expose that (re)insurer to any sanction, prohibition or restriction under United Nations resolutions or the trade or economic sanctions, laws or regulations of the European Union, United Kingdom or United States of America.

ICICI Lombard General Insurance Company Limited

IRDA Reg. No. 115

CIN: L67200MH2000PLC129408

Mailing Address:

Registered Office:

Toll free No. : 1800 2666

401 & 402, 4th Floor, Interface 11,
New Linking Road, Malad (West),
Mumbai - 400 064.

ICICI Lombard House, 414, Veer Savarkar Marg,
Near Siddhi Vinayak Temple, Prabhadevi,
Mumbai - 400 025.

Alternate No.: +919223622666 (chargeable)

Email: customersupport@icicilombard.com

Website: www.icicilombard.com

Contract Order

WO No: GVKPGSL/HO/WO/001/19-20

Date: 01.04.2019

M/s. Swift Securitas Pvt. Ltd
SCF 51, Phase XI, Mohali
PUNJAB 160 059
Tel : 0172-3044025

Kind Attn : Col. A.K. TULI, Regional Head North
(M) : 08427647458, 09915030501

Dear Sir

Sub: Contract Order for providing Security Services at our 2x270 MW Thermal Power Plant at Goindwal Sahib, Taran Taran District, Punjab State – Reg

Ref: a) Your Offer email dt. 04.04.2019
b) Your mail confirmation dt. 17.4.19 & 19.4.19

This has reference to your Offer dt.04.04.19 & mail confirmation dt.17.4.19 & 19.4.19 and subsequent discussions, we are pleased to place our Contract order for providing Security Services at our 2x270 MW Thermal Power Plant at Goindwal Sahib, Taran Taran District, Punjab State, as per the terms and conditions mentioned hereunder.

o A:

SL.NO.	Description	Unit	Qty.
1.	Providing Security Services at 2x270 MW Thermal Power Plant at Goindwal Sahib, Taran Taran District, Punjab State.	Operation per month	12 months (Period :01.04.2019 to 31.03.2020)

Commencement of the Services: W.e.f April 1st, 2019.

Duration of the contract: One Year from the date of commencement of services renewable subject to satisfactory performance which will be gauged year after year.

PRICE: -Rs.31,17,142/- (Rupees Thirty One lac Seventeen thousand One hundred and Forty Two only) per month inclusive of GST (Detailed price break up as per Annexure I)

ADDITIONAL CHARGES TOWARDS VEHICLE:

- | | |
|---|---|
| i) Vehicle Hiring charges including maintenance | : Rs.25,000 per month |
| ii) Drivers 3 nos. | : Rs.49,026 per month |
| iii) Fuel charges | : Rs.30,000 for 4500 kms per Month or as per actuals. |

GVK Power (Goindwal Sahib) Limited
Plot No. 10, Paigah Colony, Sardar Patel Road
Secunderabad - 500 003, Telangana, India.
T +91 40 2790 2663 / 64 F +91 40 2790 2665
www.gvk.com
CIN : U40109TG1997PLC028483

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LIFE SCIENCES



- 2 -

SCOPE OF SERVICE:

Scope of service, duties & responsibilities of the Agency and other terms and conditions are as appended in **Annexure - II**

Manpower to be deployment:

You shall deploy the manpower as indicated below to perform security services on 8 hours - 3 shift basis with adequate relieving personnel.

MANPOWER DEPLOYMENT PLAN

SI No	Manpower Category	Number of persons
1	Security Supervisor (Highly skilled)	07
2	Security Head Guard (Skilled)	10
3	Security Guard (Skilled)	73
4	Armed Guard/Gun Man (Skilled)	04
5	Computer Operator/Data Entry operator (Skilled)	04
6	Fire Supervisor (Highly Skilled)	04
7	Fire Driver DCPO (skilled) CUM Fireman	04
8	Fireman (Skilled)	20
	TOTAL	126 =====

**** Note : One Dedicated Assignment Manager at Goindwal Site, solely for the administration purpose/service , periodic /refresher training, ensuring post wise duties of guards, rest/relief etc to be provided at no cost.**

In addition to above manpower, there may be increase or decrease of manpower as per the site requirement . On such case, an intimation shall be forwarded to the Agency by the site to provide the required manpower and wages shall be disbursed accordingly as approved by the GVKPGSL site.

Security Equipments:

The Agency shall provide and maintain a hard top jeep in good condition (model/make-not earlier than 2015) on a daily 24 hrs basis, for the routine rounds QRT movements and other surveillance needs. The vehicle shall be operated and maintained by the Agency & shall comply with all the applicable statutory requirements.

The Agency shall deploy the following equipments at site at no extra cost :

Handheld Metal Detectors (HHMDs)

Undercarriage Mirrors at the Main Gates for searching the incoming vehicles.

Batons, Big Torches, Bomboos, Gum Boots, Safety shoes, Helmets, Reflector Jackets, Dust Mask where applicable. Inclement weather clothing like rain coats etc.

**OTHER CONDITIONS:****1. GENERAL TERMS & CONDITIONS:**

- I. The Agency shall deploy its own employees for carrying out all the jobs listed in this document. Subcontracting wholly or partly is not permitted.
- II. The Agency or his representative shall be responsible for timely arrangement of Manpower as required. The Agency shall be responsible for maintenance of all concerned records of their employees.
- III. The Agency shall provide all relevant personal protective equipment to his staff and ensure usage of the same. The Agency is responsible for safety and discipline of the deployed manpower.
- IV. The Agency for all categories of guarding personnel shall be trained as per requirement of PSARA (Private Security Regulations Act) of Punjab Govt./DGP Police, Punjab, and they shall be deployed after approval of concerned official of GVKPGSL.
- V. The Agency shall comply with all statutory Center/ State Government rules and regulations including minimum wages. The Agency shall indemnify GVKPGSL from any claim for damages due to the failure of the Agency in complying with all statutory requirements"
- VI. The Agency shall provide all safety PPEs, tools and tackles for carrying out the jobs.
- VII. **Head - Security has the right to reject any manpower provided by the Agency if found not suitable & the Agency shall arrange for suitable replacement immediately, without assigning any reason.**
- VIII. Taxes and duties: GST and all other taxes and duties are inclusive.
- IX. TDS tax at the prevailing rate, on gross amount billed, shall be deducted from the Agency's bills as per relevant provisions of income tax act.
- X. Any applicable GST for all agency's equipment, consumable spares, tools or any other agency material is the responsibility of the agency. Any other taxes shall be the responsibility of the Agency..
- XI. No child and woman labor should be engaged for the entrusted work.
- XII. The Agency should extend the provident fund medical and insurance benefits to the employees engaged by him
- XIII. Work shall be carried out on all days including Sundays and holidays.
- XIV. Supervisor and his sub staff shall, in every shift take guidelines and requirement of work from GVKPGSL- Officials or his representative and arrange for timely completion of the jobs assigned.
- XV. All manpower should be deployed in 8 hours Shift and working more than 8 hours is not allowed. (All staff should have weekly off. Shift schedule for the month to be produced to 1st day of every month.)



- 4 -

- XVI. The Agency shall strictly follow the rules specified by GVKPGSL while carrying out services under the contract.
- XVII. While carrying out services under the contract, the Agency shall strictly adhere to the security and safety norms of GVKPGSL.
- XVIII. All related jobs for the contract to be carried out as per GVKPGSL requirement.
- XIX. The Agency shall have all valid licenses and permits to carry on the work taken up. GVKPGSL shall be indemnified from all liabilities, claims and damages by the Agency in case of any failure on the part of the Agency in fulfilling these requirements.
- XX. Agency has to make his own transport, accommodation & food arrangement for his staff. Office cum store shall be provided by the owner.
- XXI. Agency should ensure that each Security Personnel will carry badges and emblems of the Company on their uniforms.
- XXII. Agency and their staff should co-ordinate with other service providers at Site for smooth functioning altogether to work towards the same goal.
- XXIII. Once in a month a Progress Meeting will be conducted by the Agency at Site with the Senior Level Official of the Site Management.

2. FACILITIES TO BE PROVIDED BY THE AGENCY : Agency should make their own arrangements for providing accommodation, & conveyance for their crew. Also the following facilities shall be provided.

- 2.1. **Communication:** The Agency shall identify a site in Charge from amongst his staff who shall coordinate the daily activities with GVKPGSL In Charge.
- 2.2. **Uniform:** The Agency shall provide uniforms to all his staff.
- 2.3. **Arrangements for providing food, drinking water etc.** to their crew engaged is in the scope of Agency .

3. LOSS / LIABILITIES: In case of theft of any property belonging to the corporation inside premises, the Agency shall depute its Investigators at its cost to conduct inquiry and shall submit the report accordingly and similarly investigation shall be initiated from the Corporation & if required the matter shall be reported to Police and other Authorities. The Agency shall subject the staff for police interrogation / investigation and shall assist in the follow-up of the investigation by the police. If it is provided by the joint enquiry police interrogation that the theft is directly due to negligence of the staff, the loss shall be recovered at the rate of, entire cost of lost material / maximum previous month billing whichever is less. The recovery shall be affected as per the instructions of Head-Security in one or more instalments.

A handwritten signature in black ink, appearing to be 'V. V. V.', written over a diagonal line.



- 4. DISCIPLINE:** The Agency shall ensure that he and his employees maintain proper discipline and decorum at GVKPGSL while dealing and executing the contract so that there should not be any hindrance for the smooth running of the power plant. If any of the employees of the Agency is found unsuitable by the Head-Security, then on demand by GVKPGSL, such employee shall be removed and the Agency shall depute another employee in his place immediately. The Agency shall ensure that its Security Personnel do not get involved in activities of agitation/ dharana / Riots / strikes /or any unlawful activities . On such involvement of any of the security personnel shall be immediately replaced.
- 5. DAMAGES TO THE PROPERTY:** The Agency shall be liable to pay damages caused to the property of GVKPGSL, on account of negligence or defective working on the part of the Agency and his employees. Such amount of damages shall be recovered from the bills of the Agency and the Agency shall be liable to pay such damages to the GVKPGSL.
- 6. SAFETY AND SECURITY:**
- 6.1. The Agency should adhere to all safety norms as per the requirement of factory act guidelines. Agency shall provide personnel protective equipments, prepare working platforms, make safety risk analysis, supervise all safety norms of security guards, safety precautions, ensure safety in all respect while execution of work. In the event of any injuries / accidents Agency shall report to the concerned in charge / safety officer /Head-Security. The Agency shall take all the responsibilities for arranging treatment to the injured persons. In case of any major/fatal accidents Agency shall adhere to all the statutory guidelines such as payment of ESI, submission of compliance and explanation to the statutory authority and take over all the legal responsibilities as per the guidelines of the factory act.
- 6.2. All safety equipments such as safety shoes, helmet, belt, hand gloves, facemask, goggles etc. shall be purchased by the Agency . The Agency shall furnish acknowledgement for receipt of safety equipments by their workmen duly certified by Head - Security, before commencement of work. If the Agency fails to furnish the same, Safety gadget will be arranged by GVKPGSL and one and half time of the cost will be deducted in the forth Bill. If the Agency feels, additional safety devices are required to carry out the contract, the same can be provided by the Agency free of cost.
- 6.3. No personnel should be allowed to work without safety gadgets.
- 7. RIGHTS OF GVKPGSL:**
- 7.1. To reserves its right to modify, change, and cancel the contract without giving any reason thereof.
- 7.2. The GVKPGSL authorized Officers of the Corporation shall have the power, from time to time, in the execution of the work, to issue notice in writing and to instruct/direct the Agency to make alterations / variations in the work.

A handwritten signature in black ink, appearing to be 'V. S. S.', written over a diagonal line that extends from the bottom left towards the center of the page.



- 7.3. If the Agency fails to carry out the assigned works satisfactorily during the currency of the Contract, the Corporation shall have the power to enter upon and take possession of the works and to engage any other person, firm or Agency to complete the work.
- 7.4. To prevent disputes and litigations, it shall be accepted as an inseparable part of this contract that in matters regarding work, interpretation of contract, mode of procedure and carrying out the work, the decision of Head-Security of GVKPGSL shall be final and binding on the Agency .
- 7.5. Any loss or damages caused to the corporation by non compliance of obligation under this agreement by the Agency , the Agency is liable to make good such losses and the corporation shall be entitled to recover the same from the Agency .

8. PERIOD OF CONTRACT:

- 8.1. The Contract shall be in force for a period of **One Year** from the date of commencement of services i.e **April 1st, 2019** .
- 8.2. The deployment should be made available on all Days (8 Hours per day) including Sundays and General Holidays during the period of contract.

9. TERMINATION OF CONTRACT:

- 9.1. If the Agency neglects to execute the work with due diligence and expedition or does not comply with the instruction given, the Company reserves the right to terminate the contract by giving Three months written notice.
The Service provider may terminate the contract by giving 45/60 days notice.
- 9.2. If the services of the Agency in GVKPGSL found not satisfactory and if any of the conditions are violated, the company reserves the right to terminate the contract prematurely without any compensation on any kind of loss.
- 9.3. The misbehaviour on the part of Security personnel, rash and negligent driving by the employee deployed by the Agency shall be reviewed very seriously and the contract may be terminated if the same attitude is continued in spite of three notices issued by the GVKPGSL.

10. PRICES, TAXES AND DUTIES INCLUDES:

- 10.1.1.1. Wages and allowances includes insurance, PF, HRA, conveyance, medical facility, Administration, transportation, and communication etc.
- 10.1.1.2. Providing uniforms, safety gadgets other unforeseen items.
- 10.1.1.3. The price is inclusive of service tax.
- 10.2. The price is inclusive of all statutory taxes and duties for the above components.
- 10.3. **PRICE VARIATION:** Any revision/increase in wages payable as per the Minimum Wages Act during the tenure of contract which is payable to the contractor, subject to submission of such revision/increase noted by the concerned State Government.

**11. BILLING AND PAYMENT:**

11.1.1. Preceding month's bill shall be submitted by 10th of every month, the Agency should furnish the bills along with requisites such as, proof of salary disbursement, PF remittance statement, GST statement and other related information along with bill.

The Agency shall disburse the wages to his workmen in the presence of the authorized representative of the Company before 7th/ 10th of the succeeding month and certify the same, as required by the rules framed under the Contract Labour (Regulation & Abolition) Act, 1970.

11.1.2. On receipt of bills, certified bills will be forwarded to Accounts for releasing the payment.

11.1.3. No advance will be paid to the Agency during the tenure of the contract

11.1.3.1. Payment will be released by the company after effecting necessary deductions such as, IT and Service tax, cess, SD and penalty if any be made as applicable within 30 days after submission of bill

11.1.3.2. Payments are made through RTGS .

11.1.4. Deduction of Income Tax, and Other Applicable Taxes and Duties & Etc.: Agency shall provide PAN/GIR Number to GVKPGSL. Income-tax and other applicable taxes if any shall be deducted at source at the prescribed rates from the monthly Bills of Agency as per the statutory levies / taxes in force at the time of payment of the bills. Necessary certificates of tax deducted at source shall be issued / furnished by GVKPGSL to the Agency .

12. LIQUIDATED DAMAGES:

GVKPGSL, has represented to the Agency that deployment of skilled personnel is the prerequisite to this Contract. The Agency to ensure continuous availability of their Personnel all the time, timely performance of the tasks assigned, ensuring safety & quality of work, with discipline and congenial atmosphere being maintained all the time for delivering the given tasks, which also form the essence of this Contract.

The Agency is aware that, in case of non-availability of personnel/performance or under performance by the Agency, negligence, unsafe practices adopted and intention not to perform, will have a serious financial implications to the Company. Further, Non-performance either collectively, or individually will also have a direct bearing on the performance, which would affect the company.

Such flaws, as listed above on part of the agency through his personnel, will have a direct bearing on the Contract, which will attracts penalties or liquidity damages.

**13. STATUTORY RULES AND REGULATIONS:**

13.1. The Agency shall register under the Contract Labour Act or any other Labour Acts as may be applicable from time to time. The Agency shall follow all the provisions of Labour laws and other laws including the Payment of Wages Act, Minimum Wages Act, Factory act, Child labour act, ESI and other Local Laws and rules framed there under from time to time. Any amount payable to the employees of the Agency under any of the law by the Agency, if demanded from the Corporation being a Principal Employer, same shall be recovered from the Bills of the Agency. The Agency shall maintain all registers and records as required under the various laws and regulations made there under from time to time. The Agency shall make arrangements for the engagement of labours according to the provisions of Indian Labour Laws and the local acts and for the payment thereof. The Agency shall pay rates of wages and observe conditions as defined in the Indian Labour Laws. On receipt of the order, the Agency shall furnish copies of all relevant documents to this contract to GVKPGSL. The Agency and his employee shall observe all the statutory rules and regulations of the power stations and the provisions of the other labour laws and regulations made there under which are applicable to the power stations.

13.1.1. In the event of any accident / injury / fatal to the Agency employee during the course of his employment in pursuance of the present contract, the Agency shall be responsible to pay the compensation or any sum payable to such employee under the provisions of Law or Regulations made there under including the provisions of ESI. The Agency shall arrange for treatment, medical facility and dealing with statutory /legal other all responsibility are rest upon Agency.

13.1.2. The Agency shall comply with all relevant acts, rules by-laws, regulations and all other statutory requirements of local or other authorities, having jurisdiction over the areas and shall be responsible for the payment of all fees and other charges and giving and receiving of all necessary notices and keep the company informed of the said compliance with such acts, rules, by-laws, regulations, statutory requirements, payments made, notice issued and received.

13.2. **Provident Fund:** The Agency shall also be responsible and fulfilment of all the statutory obligations under the statutory provisions such as PF etc. in respect of his personnel posted under this contract. The Agency shall arrange to deposit the contribution towards the PF (both employees and employers) to the concerned Authorities at the notified rates promptly. The Agency shall cover the personnel under personal risk Insurance Scheme. The copy of the Policy should be produced, as a proof for having insured/ PF remittance. The deductions towards PF shall be at the rate as prescribed by the Government from time to time.

A handwritten signature in black ink, appearing to be 'L. Day', written over a horizontal line.

**14. INDEMNITY:-**

- i) Furthermore, the Agency hereby shall undertake to indemnify and keep harmless forever, the Owner /Principal Employer from and against all losses, claims, demands, actions, liabilities and expenses under any labor enactment in respect of the labor involved in the said Services, for the period of the Contract, which might arise during the subsistence of the contract or at any future point of time. The above said indemnity would include compliance under the Minimum Wages Act, 1948, The Employees' State Insurance Act 1948, if applicable, The Employees Provident Fund and Miscellaneous Provisions Act, 1952 and any other extant Act or any other Act, which might become applicable or which might come into force during the tenure of the contract.

- ii) In case of any manner of action initiated by the Authorities implementing or enforcing labor laws against the Owner in respect of the employees of the Sub-agency's notwithstanding and without prejudice to the other civil remedies for damages available to the Owner, by virtue of the indemnity clause herein contained, the Owner shall, in addition, be entitled to implead the Agency as a necessary party to the proceedings before such authority.

15. ARBITRATION:-

In case of any dispute or differences, breach and violation relating to the terms of this Job order, the said dispute or difference shall be referred to mutually agreed sole arbitrator and that the award of the arbitrator shall be final and binding on both the parties. The adjudication of such arbitrator shall be governed by the provision of the 'ARBITRATION and CONCILIATION Act, 1996' or any statutory modification or reenactment thereof or any rules made thereof.

- 16. FORCE MEJEURE :** At any time during the continuance of this contract, if the performance in whole or in part of any obligation under this contract shall be prevented or delayed by reasons of any war, hostility, acts of public enemy, acts of civil commotion, strikes, lockouts, sabotage fires, floods, explosions, epidemics,

quarantine restrictions or other acts of God (hereinafter referred to as eventualities) then, provided notices of the happening of any such eventuality is given by Agency to the Corporation within 15 days from the date of occurrence thereof, neither party shall, by reasons of such eventuality, be entitled to terminate this contract, nor shall have any claim for damages against the other in respect of such non-performance or delay in performance, and deliveries under this contract shall be resumed as soon as practicable after such eventuality has come to an end or ceased to exist. Provided that if the performance in whole or part by Agency or any obligation under this contract is prevented or delayed by reasons of any eventuality for a period exceeding 60 days, both parties to the contract may at their option terminate this contract by a notice in writing.

A handwritten signature in black ink, appearing to be 'L. S. S.', written over a diagonal line.



17. OTHER TERMS AND CONDITIONS:

- 17.1. The Agency shall not employ children or woman labour. The Agency shall not engage any workmen without the permission of the Head - Security.
- 17.2. The above premises are the property of the GVKPGSL and the Agency is only permitted to enter into this property for carrying out contractual obligation only. Whenever the contract is terminated or the contract comes to an end or GVKPGSL decides that the Agency should not be allowed to run the same, in that event, GVKPGSL will be entitled to restrain the Agency from entering GVKPGSL premises.
- 17.3. This contract shall not grant any claims to the labour engaged by the Agency for any appointment in GVKPGSL either during the currency of the contract or any time at a future

THIS CONTRACT SHALL BE VALID FOR PERIOD OF ONE YEAR WITH EFFECT FROM 1ST APRIL 2019, FROM THE DATE OF COMMENCEMENT OF SERVICES RENEWABLE SUBJECT TO SATISFACTORY PERFORMANCE WHICH WILL BE GAUGED YEAR AFTER YEAR.

Yours faithfully
For GVK POWER (GOINDWAL SAHIB) LTD

Order Accepted
For Swift Securitas Pvt. Ltd


Authorised Signatory

Authorised Signatory

1. Annexure I – Price Break up of Security Services and Take Home
2. Annexure II – Scope of Work and other terms & conditions
3. Annexure III – Performance Matrix

ANNEXURE I TO WO NO.001/19-20, DT.01.04.19 FOR THE PERIOD 01.04.19-31.03.20 (ONE YEAR) -SWIFT SECURITAS PVT LTD

SR.NO	PARTICULARS / DESIGNATION	I		II		III		IV		V		VI		VII		VIII		IX	
		Security Supervisor Highly Skilled		Security Head Guard Skilled		Security Guard Skilled		Armed Guard Skilled		Computer Operator /Data Entry Operator		Fire Supervisor		Fire Driver/DCPO		Fire Man		Total	
		Civilian Punjab State	Ex-Service Man	Civilian Punjab State	Ex-Service Man	Civilian Punjab State(As relievers)	Ex-Service Man	Civilian Punjab State	Ex-Service Man	Skilled (Civilians)	Highly skilled (Civilians)	Skilled (Civilians)	Skilled (Civilians)	Skilled (Civilians)	Skilled (Civilians)	Skilled (Civilians)	Skilled (Civilians)	Skilled (Civilians)	Skilled (Civilians)
1	Category (Civilian/Ex-Service Man)																		
2	MONTHLY WAGES / Basic	10,786.71	10,786.71	9,754.71	9,754.71	9,754.71	9,754.71	9,754.71	9,754.71	9,754.71	10,786.71	9,754.71	9,754.71	9,754.71	9,754.71	9,754.71	9,754.71	9,754.71	9,754.71
3	SUB TOTAL (A)	10,786.71	10,786.71	9,754.71	9,754.71	9,754.71	9,754.71	9,754.71	9,754.71	9,754.71	10,786.71	9,754.71	9,754.71	9,754.71	9,754.71	9,754.71	9,754.71	9,754.71	9,754.71
4	STATUTORY LIABILITIES																		
5	P.F. on M.W. 13%	1,402.27	1,402.27	1,268.11	1,268.11	1,268.11	1,268.11	1,268.11	1,268.11	1,268.11	1,402.27	1,268.11	1,268.11	1,268.11	1,268.11	1,268.11	1,268.11	1,268.11	1,268.11
6	ESI @ 4.75%	597.73	668.98	564.29	611.79	540.54	597.54	626.04	683.04	588.04	1,001.48	588.04	683.04	778.04	730.54	730.54	730.54	730.54	730.54
7	Bonus @ 8.33% on Rs.7000/- or minimum wages whichever is higher	898.53	898.53	812.57	812.57	812.57	812.57	812.57	812.57	812.57	898.53	812.57	812.57	812.57	812.57	812.57	812.57	812.57	812.57
8	Gratuity @ 4.81%	518.84	518.84	469.20	469.20	469.20	469.20	469.20	469.20	469.20	518.84	469.20	469.20	469.20	469.20	469.20	469.20	469.20	469.20
9	Leave salary @8.33%	898.53	898.53	812.57	812.57	812.57	812.57	812.57	812.57	812.57	898.53	812.57	812.57	812.57	812.57	812.57	812.57	812.57	812.57
10	Uniform,monsoon & winter wear	350.00	350.00	350.00	350.00	350.00	350.00	350.00	350.00	350.00	350.00	350.00	350.00	350.00	350.00	350.00	350.00	350.00	350.00
11	Any other allowance	0.00	1,500.00	500.00	1,500.00	0.00	1,200.00	0.00	1,200.00	1,000.00	8,500.00	1,000.00	1,200.00	5,000.00	4,000.00	4,000.00	4,000.00	4,000.00	4,000.00
12	Gunman Allowance	0.00	0.00	0.00	0.00	0.00	0.00	1,800.00	1,800.00	0.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
13	Sub -Total (B)	4,665.91	6,237.16	4,776.74	5,824.24	4,252.99	5,509.99	6,138.49	7,395.49	5,300.49	13,569.66	5,300.49	7,395.49	9,490.49	8,442.99	8,442.99	8,442.99	8,442.99	8,442.99
14	Sub -Total = (A)+(B) = (C)	15,452.62	17,023.87	14,531.45	15,578.95	14,007.70	15,264.70	15,893.20	17,150.20	15,055.20	24,356.37	15,055.20	17,150.20	19,245.20	18,197.70	18,197.70	18,197.70	18,197.70	18,197.70
15	Relieving Charges	2,575.44	2,837.31	2,421.91	2,596.49	2,334.62	2,544.12	2,648.87	2,858.37	2,509.20	4,059.39	2,509.20	2,858.37	3,207.53	3,032.95	3,032.95	3,032.95	3,032.95	3,032.95
16	sub total	18,028.05	19,861.18	16,953.36	18,175.44	16,342.32	17,808.82	18,542.07	20,008.57	17,564.40	28,415.76	17,564.40	20,008.57	22,452.73	21,230.65	21,230.65	21,230.65	21,230.65	21,230.65
17	Service Charges 8%	1,442.24	1,588.89	1,356.27	1,454.04	1,307.39	1,424.71	1,483.37	1,600.69	1,405.15	2,273.26	1,405.15	1,600.69	1,796.22	1,698.45	1,698.45	1,698.45	1,698.45	1,698.45
18	Any other charges 2%	360.56	397.22	339.07	363.51	326.85	356.18	370.84	400.17	351.29	568.32	351.29	400.17	449.05	424.61	424.61	424.61	424.61	424.61
19	Sub -Total	19,830.86	21,847.30	18,648.70	19,992.99	17,976.55	19,589.70	20,396.27	22,009.42	19,320.84	31,257.34	19,320.84	22,009.42	24,698.01	23,353.72	23,353.72	23,353.72	23,353.72	23,353.72
20	LWF (Labour Wellfare Fund)	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
21	MONTHLY CTC for 30/31 days (D)	19,850.86	21,867.30	18,668.70	20,012.99	17,996.55	19,609.70	20,416.27	22,029.42	19,340.84	31,277.34	19,340.84	22,029.42	24,718.01	23,373.72	23,373.72	23,373.72	23,373.72	23,373.72
22	GST @ 18% on D = E	3,573.15	3,936.11	3,360.37	3,602.34	3,239.38	3,529.75	3,674.93	3,965.30	3,481.35	5,629.92	3,481.35	3,965.30	4,449.24	4,207.27	4,207.27	4,207.27	4,207.27	4,207.27
23	GROSS MONTHLY CTC for 30/31 days PER PERSON (D + E)	23,424.01	25,803.41	22,029.06	23,615.33	21,235.93	23,139.45	24,091.20	25,994.72	22,822.19	36,907.26	22,822.19	25,994.72	29,167.25	27,580.99	27,580.99	27,580.99	27,580.99	27,580.99
24	Recommended Strength	7	7	10	10	73	73	4	4	4	4	4	4	4	4	4	4	4	4
	Costing per Month (including GST) , Period :01.04.2019 - 31.03.2020	180624	236153	1689180	103979	91289	147629	116669	551620	3117142									

Note :

Rates are subject to revision as per notification of wages by Govt.

CHARGES TOWARDS VEHICLE

Vehicle Hiring Charges including

maintenance

Drivers 3 Nos.

Fuel Charges

Rs. 25,000 per Month

Rs. 49,026 per Month @Rs.16342/- X 3 Drivers

Rs. 30,000 For 4500 kms per Month

ANNEXURE I TO WO NO.001/19-20, DT.01.04.19 FOR THE PERIOD 01.04.19 - 31.03.20 (ONE YEAR) -SWIFT SECURITAS PVT LTD -TAKE HOME

SR.NO	PARTICULARS / DESIGNATION	I		II		III		IV		V	VI	VII	VIII	IX
		Security Supervisor Skilled	Highly Skilled	Security Head Guard Skilled	Security Guard	Skilled	Armed Guard	Skilled	Computer Operator /Data Entry Operator					
1	Category (Civilian/Ex-Service Man)	Civilian Punjab State	Ex-Service Man	Civilian Punjab State	Ex-Service Man	Civilian Punjab State(As relievers)	Ex-Service Man	Civilian Punjab State	Ex-Service Man	Skilled (Civilians)	Highly skilled (Civilians)	Skilled (Civilians)	Skilled (Civilians)	
2	MONTHLY WAGES / Basic	10,786.71	10,786.71	9,754.71	9,754.71	9,754.71	9,754.71	9,754.71	9,754.71	9,754.71	10,786.71	9,754.71	9,754.71	
3	SUB TOTAL (A)	10,786.71	10,786.71	9,754.71	9,754.71	9,754.71	9,754.71	9,754.71	9,754.71	9,754.71	10,786.71	9,754.71	9,754.71	
4	STATUTORY LIABILITIES													
5	P.F. on M.W. 13%	1,402.27	1,402.27	1,268.11	1,268.11	1,268.11	1,268.11	1,268.11	1,268.11	1,268.11	1,402.27	1,268.11	1,268.11	
6	ESI @ 4.75%	597.73	668.98	564.29	611.79	540.54	597.54	626.04	683.04	588.04	1,001.48	778.04	730.54	
7	Bonus @ 8.33% on Rs.7000/- or minimum wages whichever is higher	898.53	898.53	812.57	812.57	812.57	812.57	812.57	812.57	812.57	898.53	812.57	812.57	
8	Gratuity @ 4.81%	518.84	518.84	469.20	469.20	469.20	469.20	469.20	469.20	469.20	518.84	469.20	469.20	
9	Leave salary @8.33%	898.53	898.53	812.57	812.57	812.57	812.57	812.57	812.57	812.57	898.53	812.57	812.57	
10	Uniform,monsoon & winter wear	350.00	350.00	350.00	350.00	350.00	350.00	350.00	350.00	350.00	350.00	350.00	350.00	
11	Any other allowance	0.00	1,500.00	500.00	1,500.00	0.00	1,200.00	0.00	1,200.00	1,000.00	8,500.00	5,000.00	4,000.00	
12	Gunman Allowance	0.00	0.00	0.00	0.00	0.00	0.00	1,800.00	1,800.00	0.00	0.00	0.00	0.00	
13	Sub -Total (B)	4,665.91	6,237.16	4,776.74	5,824.24	4,252.99	5,509.99	6,138.49	7,395.49	5,300.49	13,569.66	9,490.49	8,442.99	
14	Sub -Total = (A)+(B= (C)	15,452.62	17,023.87	14,531.45	15,578.95	14,007.70	15,264.70	15,893.20	17,150.20	15,055.20	24,356.37	19,245.20	18,197.70	
15	Relieving Charges	2,575.44	2,837.31	2,421.91	2,596.49	2,334.62	2,544.12	2,648.87	2,858.37	2,509.20	4,059.39	3,207.53	3,032.95	
16	sub total	18,028.05	19,861.18	16,953.36	18,175.44	16,342.32	17,808.82	18,542.07	20,008.57	17,564.40	28,415.76	22,452.73	21,230.65	
17	Service Charges 8%	1,442.24	1,588.89	1,356.27	1,454.04	1,307.39	1,424.71	1,483.37	1,600.69	1,405.15	2,273.26	1,796.22	1,698.45	
18	Any other charges 2%	360.56	397.22	339.07	363.51	326.85	356.18	370.84	400.17	351.29	568.32	449.05	424.61	
19	Sub -Total	19,830.86	21,847.30	18,648.70	19,992.99	17,976.55	19,589.70	20,396.27	22,009.42	19,320.84	31,257.34	24,698.01	23,353.72	
20	LWF (Labour Welfare Fund)	20	20	20	20	20	20	20	20	20	20	20	20	
21	MONTHLY CTC for 30/31 days (D)	19,850.86	21,867.30	18,668.70	20,012.99	17,996.55	19,609.70	20,416.27	22,029.42	19,340.84	31,277.34	24,718.01	23,373.72	
22	GST @ 18% on D + E	3,573.15	3,936.11	3,360.37	3,602.34	3,239.38	3,529.75	3,674.93	3,965.30	3,481.35	5,629.92	4,449.24	4,207.27	
23	GROSS MONTHLY CTC for 30/31 days PER PERSON (D + E)	23,424.01	25,803.41	22,029.06	23,615.33	21,235.93	23,139.45	24,091.20	25,994.72	22,822.19	36,907.26	29,167.25	27,580.99	
24	Recommended Strength	7	7	10	10	73	73	4	4	4	4	4	4	126.00
	Costing per Month (including GST) , Period :01.04.2019 - 31.03.2020	180624	236153	1689180	103979	147629	116669	551620	3117142					
	Gross Wages for 26 days duty	12,583.78	14,083.78	11,879.84	12,879.84	11,379.84	12,579.84	13,179.84	14,379.84	12,379.84	21,083.78	16,379.84	15,379.84	
	Employee deduction of PF 12 %	1294.41	1294.41	1170.57	1170.57	1170.57	1170.57	1170.57	1170.57	1170.57	1294.41	1170.57	1170.57	
	Employee deduction of ESI 1.75%	220.22	246.47	207.90	225.40	199.15	220.15	230.65	251.65	216.65	368.97	286.65	269.15	
	Net take home salary for 26 days duty	11,069.15	12,542.90	10,501.38	11,483.88	10,010.13	11,189.13	11,778.63	12,957.63	10,992.63	19,420.40	14,922.63	13,940.13	

Note : Rates are subject to revision as per notification of wages by Govt.

CHARGES TOWARDS VEHICLE

- Vehicle Hiring Charges including maintenance
- Drivers 3 Nos.
- Fuel Charges

Rs. 25,000 per Month
Rs. 49,026 per Month
Rs. 30,000 For 4500 kms per Month

@Rs.16342/- X 3 Drivers

ANNEXURE II TO WO NO. GVKPGSL/HO/WO/001/19-20**SCOPE OF WORK****1.0 GENERAL CONDITION OF CONTRACT :**

The Agency shall ensure to supply any additional manpower, over and above the minimum deployment indicated below, during any contingencies; as per the concerned EIC, as per the site requirement. The wages shall be disbursed accordingly as approved by the GVKPGSL.

In such case, an intimation shall be sent to the agency in advance by the EIC to provide the required manpower within the reasonable time.

It is expected that the agency shall ensure that security personnel display a smart turn out on daily on duty.

The contractor shall provide all the security personnel with two pairs of all weather uniform with other items like, shoes, caps, Torches, Raincoats, Umbrellas, and Gumboots.

Every Security Personnel will properly display the Identity Card issued in his name showing his personal details with clear photograph, dully attested by the authorized signatory of the agency / GVK.

The contractor shall ensure & disburse the wage payment to the Security Personnel deployed at site, preferably on or before 10th day of the following month.

The agency shall ensure to provide requisite training to its personnel, on monthly basis, on subjects like First aid , Rescue , Emergency Response etc. The agency will also conduct the mock drill, on different emergency scenario to all concerned security & Fire personnel to keep in all - readiness deal with emergencies.

Agency shall submit the police verification certificate at the time of induction for. ll the guards deployed / to be deployed at site .

Maximum mobilising time permitted (for posting of 100 % ESMs) shall be 100 days from the date of award of contract. However, upto 10 % of civilian guards can be deployed as leave reserves, but up to a limited extent of MAX 100 mandays in a month.

The agency will fulfil the statutory obligation during the contract period by abiding all applicable laws and act.

2.0 PROVISION OF MANPOWER :

The agency shall appoint one dedicated **Assignment Manager** at Goindwal Site, solely for the purpose of administration /services, periodic / refresher trainings, post wise duty assignment of guards, rest/relief etc. at his own cost.

The Contractor shall deploy the security manpower under various categories as shown in the table below. The nos of manpower to be deployed, as shown in the table against each category is also specified. The Ex-Servicemen can be from any of the various wings of

Indian Armed Forces, i.e ARMY, NEVY, AIR FORCE, CISF, BSF, ASSAM RIFLE, ITBP, CRPF, SSB etc.

The nos indicated are the minimum nos which shall be deployed in the plant on daily basis. Indicative deployment plan against locations in the plant has been given as Annexure - I

The security manpower shall be kept in shifts as per the approved deployment plan (Shif-Rota) for each of the locations in the plant, as per the instruction of Security- In- Charge of GVK Power Goindwal Sahib Ltd.

The contractor shall ensure that all the persons deployed by him shall be of good character and shall be medically fit for civil employment as under.

The maximum age of induction with required qualification etc have been specified below, category wise .

S.No	Manpower Category	Number of Persons
1	Security Supervisor(Highly skilled)	07
2	Head Guard (Skilled skilled)	10
3	Security Guard (Skilled)	73
4	Guan man (Armed Guard)	04
5	Data Entry Operator (Skilled)	04
6	Fire Supervisor (Highly skilled)	04
7	Fire Driver DCPO (Skilled)CUM Fireman	04
8	Fireman (Skilled)	20
	Total	126

3.0 ELIGIBILITY CRITERIA FOR MANPOWER FOR VARIOUS POSITION:

Agency shall deploy the manpower fulfilling the eligibility criterion as indicated below to perform security services on 8 hours -3 shift basis

The contractor shall ensure that stipulated nos of manpower is available on a daily basis. He shall also maintain adequate no of competent relieving personnel at various levels, to cover up for leaves & absence of manpower from time to time.

Final selection of security staff will on sole discretion of GVK security head .

A. Security Supervisor :

Should be JCO /NCO as defined in the ex -service men category. Should not be of follower trade.

Should be a graduate on minimum basis or qualified thru equivalent studies in services.

Must be medically fit and should have exemplary discipline as per the service documents.

Should be trained in industrial security for a minimum duration as laid down by the government notification. Industrial security training through a professional industrial

school should be affiliated and course certification through the authorized university only.

Maximum Age – 55 years or less.

Working knowledge of Hindi and English, knowledge of local language will be added advantage.

Basic knowledge of computers is essential.

B. Security Head Guard :

Should be minimum NCO (noncommissioned officer of the rank of Hav or Nk/head Constable or Constable) or equivalent from other as defined in the ex-servicemen category. .Should not be of follower trade.

Should be at least 12th pass or qualified thru equivalent studies in services.

Should be trained in industrial security for a minimum duration as laid down by the government notification. Industrial security training through a professional school. Industrial school should be affiliated and course certification through the authorized university only.

Must be medically fit and should have exemplary discipline as per the service documents.

Maximum Age - 52 years or less.

Working knowledge of Hindi and English, knowledge of local language will be added advantage

Basic knowledge of computer is desirable.

C. Security Guard :

Should be (Ex-Servicemen { ARMY, NEVY, AIR FORCE } , CISF, BSF, ASSAM RIFLE , ITBP, CRPF , SSB) .Should not be of follower trade.

Should be at least 10th pass or equivalent studies in services.

Should be trained in industrial security for a minimum duration as laid down by the government notification. Industrial security training through a professional school. Industrial school should be affiliated and course certification through the authorized university only.

Must be medically fit and should have exemplary discipline as per the service documents.

Maximum Age - 50 years or less.

Person with industrial security experience will be an added advantage.

Working knowledge of Hindi and English.

Basic knowledge of computer will be an added advantage.

Security Armed Guard:-

Should be (Ex-Servicemen { ARMY, NEVY, AIR FORCE } , CISF, BSF, ASSAM RIFLE , ITBP, CRPF , SSB). Should not be of follower trade.

Should be at least 10th pass or equivalent studies in services.

Should be trained in industrial security for a minimum duration as laid down by the government notification. Industrial security training through a professional school. Industrial school should be affiliated and course certification through the authorized university only.

Medically fit and should have exemplary discipline as per the service documents.

Maximum Age - 50 years or less.

Person with industrial security experience will be an added advantage.

Working knowledge of Hindi and English

Should have valid personnel gun license with area validity either of Punjab or All India.

Keep and Carry type of Gun license shall not accepted . The Gun should be on the personnel name of the individual and verified by the service provider.

D. Data Entry Operator :

Should be at least 12th pass must have the requisite certificates from certified course from reputed Institute having adequate knowledge of computer windows based operating systems software applications, should know use of Internet surfing for data search, Basic knowledge of computer hardware and application.

Minimum Age of 21 years, Maximum Age 35 yrs .

Must be medically fit

Person with industrial security experience will be an added advantage.

Working knowledge of Hindi and English

knowledge of local language will be added advantage.

E. Fire Supervisor :

Should be at least 12th pass with minimum one year Sub Officer Fire Course Certificate from a recognized Government approved institute pass certificate .

Age Limit - Min. 25 yrs and Max. 40 yrs

Should have minimum Two yrs (02) experience on the same rank of any reputed industrial unit.

Must be medically fit .

Person should have at least 03 yrs of industrial fire safety experience..

Working knowledge of Hindi and English is desirable.

Knowledge of local language will be added advantage.

F. Fire Man :

Should be at least 12th pass with minimum six month Fire man course from recognized Govt approved institute pass certificate .

Age Limit Min. 21 years, Max. 35 yrs

Must be medically fit .

Person with industrial fire safety experience will be an added advantage.

Working knowledge of Hindi and English

Knowledge of local language will be added advantage.

G. DCPO (Fire Driver)

Should be at least 12th pass with minimum six month Fire man / DCPO course from recognized Govt approved institute pass certificate .

Must have the valid heavy vehicle driving license with fire tender driving experience.

Above the age of 25 and below 45 yrs

Should be medically fit

Person with industrial fire safety experience will have an added advantage.

Must have minimum Two years of driving experience of fire tender .

4.0 SECURITY EQUIPMENTs :

The agency shall provide and maintain a hard top jeep in good condition (model / make – not earlier than 2015) on a daily 24 hrs basis, for the routine rounds QRT movements and other surveillance needs. The vehicle shall be operated & maintained by the agency and shall comply with all the applicable statutory requirements.

The agency shall deploy the following equipments at site at no extra cost :

Batons / Lathis, Gum Boots, Safety Shoes, Helmets, Reflector Jackets , Dust Mask .

5.0 PENALTY FOR PERFORMANCE SHORTFALL : -

The contractor shall always endeavor to manage all security location/posts as per the deployment plan. If the desired strength is unavailable, a person from the next lower category will be allowed to officiate (work as replacement) on that post / position, subject to fulfilling the eligibility criteria and necessary compliance with / of statutory provisions of the post, after approval from Security In Charge.

Penalty will be levied as Pro-rata deduction from the monthly service bills and will be applicable on the shortage of contracted manpower as given below ::

In case of shortage of more than (in excess of) 01 No / shift, below the stipulated manpower on per shift basis, a penalty will be levied @ Rs.500 / per man-day .

If the average monthly shortage of manpower continues to exceed 2 % for consecutively for three months, the penalty rates can be hiked up to Rs.1000.00 / man-days of shortfall - or GVKPGSL can also terminate the contract , without giving any reasons to the agency.

In case any Security Personnel found absconding from the duty spot, or found sleeping, while on duty, or found in inebriated state etc, a penalty ranging from Rs.500/-to Rs.1000/- per default/case, will be imposed at the sole discretion of GVK Power Goindwal sahib , which shall be deducted from the monthly bills.

The security agency shall be bound to ensure that no slackness / dilution of arrangements, as per Security In Charge, for security supervision, are ever allowed to happen . This shall result in a very severe penalty as deemed fit by Security In Charge, with due approval of Plant Head.

Any cost of damage to the company property due to or attributable to the negligence of contracted security personnel, during the discharge of his duty, shall be recovered from the monthly bill(s) of the agency.

Unavailability of vehicle for more than 02 days per month shall be penalized @ upto Rs. 3000/-per day.

Any security personal found in drunken condition or committing or involved in any misconduct during the working hours will be removed by the agency from service immediately .

The contractor shall ensure to fulfill all the statutory obligations as per applicable Factories / Labour Acts, during the complete tenure of the contract.



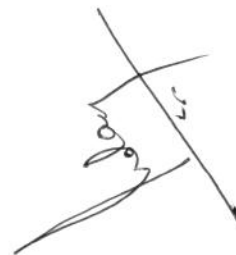
ANNEXURE III

		Performance Matrix of HR Department			
Sr. No	Parameter	Target Date	Status	Penalty in case of non compliance	Remarks
1	ESI Challan	15th of Every Month for the previous month		5 % of Wage Amount will be held back	
2	EPF Challan	15th of Every Month for the previous month		10 % of Wage Amount will be held back	
3	Medical Checkup	After Every 06 Month or As per Punjab Factories Act,1948		02 % of Billing Amount will be held back	
4	Labour Welfare Fund	Every 06 Months		2 % of Billing Amount will be held back	
5	Statutory Register including personal Files	Every Month		2 % of Billing Amount will be held back	
6	Labour Licence	Updated		2 % of Billing Amount will be held back	

(Verified by)

(Checked by)

(Approved by)



GVK Power (Goindwal Sahib) Limited

Statement of Fuel Cost Projection for control period FY 2020-21,21-22 and FY 2022-23

Sl. No	item	Unit	Actual FY 2019-20	Projection FY 2020-21	Projection FY 2021-22	Projection FY 2022-23
1	2	3			4	5
1	Installed Capacity	MW	540	540	540	540
2	Gross Generation	Mu	1,311.52	2,601.72	2,602	2,602
3	PLF	%	27.73	55	55.00	55.00
4	Plant Availability	%	99.31	85	85.00	85.00
5	Auxiliary Consumption	MU	121.50	234.15	234	234
		%	9.26%	9.00%	9.00%	9.00%
6	Net generation	MU	1,190	2,368	2,368	2,368
7	Station Heat Rate	Kcal/Kwh	2351	2332	2,332	2,332
8	Calorific value of Coal	Kcal/Kg	3,358	3388	3,388	3,388
9	Coal Transit loss	%	1.62%	0.80%	0.80%	0.80%
10	Total Coal Consumption	Tonnes	9,02,264	1786930	17,86,930	17,86,930
11	Total Oil Consumption	KL	1,172.86	1300.86	1,301	1,301
12	Specific Oil consption	MI/kwh	0.89	0.5	0.50	0.50
13	Calorific value of Oil	kcal/litre	10,377	10,402	10,402	10,402
14	Price of Coal	Rs./Tonne	5,791	6,080	6,318	6,565
15	Price of Oil	Rs./Kl	44949	53,645	53,645	53,645
16	Total Coal Cost	Rs. in Crore	522.56	1,095.19	1,138.02	1,182.53
17	Total oil cost	Rs. in Crore	5.27	6.98	6.98	6.98
18	Total Fuel Cost	Rs. in Crore	527.83	1,102.17	1,145.00	1,189.51

Annexure 6_Fuel Cost Projections for MYT 2020-2023

GVK Power (Goindwal Shaib) Limited
Statement of coal cost , GCV considered in tariff bill For FY 2019-20

Month	Declared Capacity	Scheduled Generation	Plant Availability in %		Auxiliary Consumption		Station heat R	Coal Consumption (Shakti)			Coal Consumption (Other than Shakti)			HFO/LDO Consumption			Energy Charges (Shakti)	Charges (Other than Shakti)
	MU	Mu	Monthly	Cumulative	MU	%	Kcal/Kwh	MT	landed Price	GCV (Kcal/Kg)	MT	landed Price	GCV (Kcal/Kg)	KL	landed Price (Approx)	GCV (Kcal/Kg) Approx	Rs./Kwh	Rs./Kwh
Apr-19	314.48	183.57	88.89	88.89	19.65	9.67%	2401	1,35,815	6,187	3,622	-	-	-	185.05	44,294	10,451	4.37	-
May-19	365.24	27.84	99.90	94.48	2.83	9.23%	2374	17,960	6,130	3,666	-	-	-	101.92	47,246	10,450	4.28	-
Jun-19	353.51	201.13	99.92	96.27	20.14	9.10%	2606	1,41,531	5,661	3,589	-	-	-	111.51	43,192	10,401	4.06	-
Jul-19	365.60	217.46	100.00	97.22	21.90	9.15%	2357	1,63,146	5,614	3,425	-	-	-	126.45	43,666	10,311	4.22	-
Aug-19	365.60	182.81	100.00	97.78	18.80	9.32%	2363	1,47,165	5,489	3,084	-	-	-	214.09	47,253	10,430	4.58	-
Sep-19	352.50	197.43	99.63	98.09	20.18	9.27%	2361	1,02,872	5,658	3,171	49,887	6,058	2,655	115.39	44,469	10,330	4.59	5.86
Oct-19	365.60	83.69	100.00	98.36	8.35	9.07%	2365	64,749	5,641	3,349	-	-	-	87.00	45,043	10,299	4.33	-
Nov-19	353.81	-	100.00	98.57	-	0.00%	-	-	-	-	-	-	-	-	-	-	-	-
Dec-19	365.60	35.27	100.00	98.73	3.64	9.36%	2542	28,083	5,823	3,442	-	-	-	76.99	44,048	10,323	4.35	-
Jan-20	365.60	60.83	100.00	98.85	6.01	8.99%	2379	51,055	6,589	3,501	-	-	-	154.47	44,094	10,313	4.84	-
Feb-20	342.01	-	100.00	98.95	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mar-20	365.60	0	100.00	99.31	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4,275.17	1,190.02			121.50		2351	8,52,377	5,775.11	3,398.60	49,886.94	6,057.74	2,655	1,172.86	44,948.58	10,377.42		

Annexure 6_Fuel Cost Projections for MYT 2020-2023

GVK Power (Goindwal Shaib) Limited

Statement of projection for coal cost , GCV for FY 2020-21

Month	Declared Capacity	Scheduled Generation	Plant Availability in %		Auxiliary Consumption		Station heat Rate	Coal Consumption (Shakti)			HFO/LDO Consumption			Energy Charges (Shakti)	
	MU	Mu	Monthly	Cumulative	MU	%	Kcal/Kwh	MT	landed Price	GCV (Kcal/Kg)	KL	landed Price (Approx)	GCV (Kcal/Kg) Approx	Rs./Kwh	
Apr-20	300.74	197.30	85.00	85.00	19.51	9.00%	2332	1,48,911	6,080	3,388	108	53,645	10,402	4.66	
May-20	310.76	197.30	85.00	85.00	19.51	9.00%	2332	1,48,911	6,080	3,388	108	53,645	10,402	4.66	
Jun-20	300.74	197.30	85.00	85.00	19.51	9.00%	2332	1,48,911	6,080	3,388	108	53,645	10,402	4.66	
Jul-20	310.76	197.30	85.00	85.00	19.51	9.00%	2332	1,48,911	6,080	3,388	108	53,645	10,402	4.66	
Aug-20	310.76	197.30	85.00	85.00	19.51	9.00%	2332	1,48,911	6,080	3,388	108	53,645	10,402	4.66	
Sep-20	300.74	197.30	85.00	85.00	19.51	9.00%	2332	1,48,911	6,080	3,388	108	53,645	10,402	4.66	
Oct-20	310.76	197.30	85.00	85.00	19.51	9.00%	2332	1,48,911	6,080	3,388	108	53,645	10,402	4.66	
Nov-20	300.74	197.30	85.00	85.00	19.51	9.00%	2332	1,48,911	6,080	3,388	108	53,645	10,402	4.66	
Dec-20	310.76	197.30	85.00	85.00	19.51	9.00%	2332	1,48,911	6,080	3,388	108	53,645	10,402	4.66	
Jan-21	310.76	197.30	85.00	85.00	19.51	9.00%	2332	1,48,911	6,080	3,388	108	53,645	10,402	4.66	
Feb-21	280.69	197.30	85.00	85.00	19.51	9.00%	2332	1,48,911	6,080	3,388	108	53,645	10,402	4.66	
Mar-21	310.76	197.30	85.00	85.00	19.51	9.00%	2332	1,48,911	6,080	3,388	108	53,645	10,402	4.66	
	3,658.96	2,367.57			234.15		2332	17,86,930	6,079.9	3388	1,301	53,645	10,402		

Annexure 6_Fuel Cost Projections for MYT 2020-2023

GVK Power (Goindwal Shaib) Limited

Statement of projection for coal cost , GCV for FY 2021-22

Month	Declared Capacity	Scheduled Generation	Plant Availability in %		Auxiliary Consumption		Station heat Rate	Coal Consumption (Shakti)			HFO/LDO Consumption			Energy Charges (Shakti)
	MU	Mu	Monthly	Cumulative	MU	%	Kcal/Kwh	MT	landed Price	GCV (Kcal/Kg)	KL	landed Price (Approx)	GCV (Kcal/Kg) Approx	Rs./Kwh
Apr-21	300.74	197.30	85.00	85.00	19.51	9.00%	2332	1,48,911	6,318	3,388	108	53,645	10,402	4.84
May-21	310.76	197.30	85.00	85.00	19.51	9.00%	2332	1,48,911	6,318	3,388	108	53,645	10,402	4.84
Jun-21	300.74	197.30	85.00	85.00	19.51	9.00%	2332	1,48,911	6,318	3,388	108	53,645	10,402	4.84
Jul-21	310.76	197.30	85.00	85.00	19.51	9.00%	2332	1,48,911	6,318	3,388	108	53,645	10,402	4.84
Aug-21	310.76	197.30	85.00	85.00	19.51	9.00%	2332	1,48,911	6,318	3,388	108	53,645	10,402	4.84
Sep-21	300.74	197.30	85.00	85.00	19.51	9.00%	2332	1,48,911	6,318	3,388	108	53,645	10,402	4.84
Oct-21	310.76	197.30	85.00	85.00	19.51	9.00%	2332	1,48,911	6,318	3,388	108	53,645	10,402	4.84
Nov-21	300.74	197.30	85.00	85.00	19.51	9.00%	2332	1,48,911	6,318	3,388	108	53,645	10,402	4.84
Dec-21	310.76	197.30	85.00	85.00	19.51	9.00%	2332	1,48,911	6,318	3,388	108	53,645	10,402	4.84
Jan-22	310.76	197.30	85.00	85.00	19.51	9.00%	2332	1,48,911	6,318	3,388	108	53,645	10,402	4.84
Feb-22	280.69	197.30	85.00	85.00	19.51	9.00%	2332	1,48,911	6,318	3,388	108	53,645	10,402	4.84
Mar-22	310.76	197.30	85.00	85.00	19.51	9.00%	2332	1,48,911	6,318	3,388	108	53,645	10,402	4.84
	3,658.96	2,367.57			234.15		2332	17,86,930	6,317.65	3388	1,301	53,645	10,402	

Annexure 6_Fuel Cost Projections for MYT 2020-2023

GVK Power (Goindwal Shaib) Limited

Statement of projection for coal cost , GCV for FY 2022-23

Month	Declared Capacity	Scheduled Generation	Plant Availability in %		Auxiliary Consumption		Station heat Rate	Coal Consumption (Shakti)			HFO/LDO Consumption			Energy Charges (Shakti)
	MU	Mu	Monthly	Cumulative	MU	%	Kcal/Kwh	MT	landed Price	GCV (Kcal/Kg)	KL	landed Price (Approx)	GCV (Kcal/Kg) Approx	Rs./Kwh
Apr-22	300.74	197.30	85.00	85.00	19.51	9.00%	2332	1,48,911	6,565	3,388	108	53,645	10,402	5.02
May-22	310.76	197.30	85.00	85.00	19.51	9.00%	2332	1,48,911	6,565	3,388	108	53,645	10,402	5.02
Jun-22	300.74	197.30	85.00	85.00	19.51	9.00%	2332	1,48,911	6,565	3,388	108	53,645	10,402	5.02
Jul-22	310.76	197.30	85.00	85.00	19.51	9.00%	2332	1,48,911	6,565	3,388	108	53,645	10,402	5.02
Aug-22	310.76	197.30	85.00	85.00	19.51	9.00%	2332	1,48,911	6,565	3,388	108	53,645	10,402	5.02
Sep-22	300.74	197.30	85.00	85.00	19.51	9.00%	2332	1,48,911	6,565	3,388	108	53,645	10,402	5.02
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	3,658.96	2,367.57			234.15		2332	17,86,930	6,564.74	3388	1,301	53,645	10,402	



भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

केन्द्रीय विद्युत प्राधिकरण

Central Electricity Authority

अल्ट्रा मेगा विद्युत परियोजना विकास प्रभाग

Ultra Mega Power Projects Development Division

सं.:44/FGD/ यूएमपीपी/सीईए/2019/413-414

दिनांक: 30-04-2019

सेवा में,

Sh. M. Rama Murty.
Director
GVK Power (Goindwal Sahib) Limited
Sardar Patel Road,
Secunderabad 500 003, India.

Subject: Advice on suitable technology and indicative cost in installation of FGD to meet the new MOEF & CC Emission norms in 2X270 MW GVK Power (Goindwal Sahib) Limited, Punjab.

Sir,

In reference to the new Environmental norms as per Environment (Protection) Amendment Rules 2015- Installations of FGD at GVK Power (Goindwal Sahib) Limited, Punjab; GVK Power had submitted the revised feasibility report wherein the best suited technology and estimated indicative cost was proposed for installations of systems to control emission from the power plant.

Also, on the basis of plant specific data provided by GVK Power (Goindwal Sahib) Limited, Punjab as well as the present technologies available and other related conditions, an advisory report has been prepared detailing suggestive technology and estimated indicative cost in installations of FGD (Flue Gas Desulphurization Systems) at 2X270 MW thermal Power Plant at Tarn Taran, Punjab. The cost of retrofitting of FGD for the plant needs to be discovered through open competitive bidding in consultation with representatives of major PPA stakeholder. GVK Power (Goindwal Sahib) Limited, Punjab may invite the major PPA stakeholder to participate in bidding process till final award of FGD contract.

However, in respect of installations of FGD systems; it would be the sole responsibility of Power Plant to meet the time-limit as prescribed by appropriate Pollution Control Board. Further, GVK Power (Goindwal Sahib) Limited, Punjab may submit the status of progress of all activities of installation starting from bidding stage till commissioning of FGD to CEA on monthly basis.

Enclosed: Advisory report

भवदीय,

(चन्द्र शेखर)

मुख्य अभियंता

Copy:

Tel. 26195472

Secretary, PSERC: for information

RECOMMENDATION OF CEA FOR FGD INSTALLATION AT GVK POWER (GOINDWAL SAHIB) LIMITED, GVK GROUP

INTRODUCTION

BRIEF REVIEW OF THE NEW MoEF REGULATION

The present notification from MoEF&CC amends existing norms related to emission of SPM and introduces new norms for emission of SO₂, NO_x and Mercury from Thermal Power Plants (TPPs). It also specifies modified limits for specific water consumption by TPPs and insists to convert existing once through based condenser cooling system to recirculation type. Different limits are specified based on capacity of power plant and year of installation. A summary of new regulations on air emission is given in below;

NEW REGULATIONS ON EMISSION

Date of Installation	PM	SO ₂	NO _x	Mercury (Hg)
Before 31-12 2003	100 mg/Nm ³	600 mg/Nm ³ for <500MW 200 mg/Nm ³ for ≥500MW	600 mg/Nm ³	0.03 mg/Nm ³ for ≥500MW
After 01-01-2003 & Upto 31-12-2016	50 mg/Nm ³	600 mg/Nm ³ for <500MW 200 mg/Nm ³ for ≥500MW	300 mg/Nm ³	0.03 mg/Nm ³
On or after 01-01-2017	30 mg/Nm ³	100 mg/Nm ³	100 mg/Nm ³	0.03 mg/Nm ³

SUMMARY OF NEW REGULATIONS ON WATER USE

Sl. No.	New requirement
1	All plants with Once Through Cooling (OTC) shall install Cooling Tower (CT) and achieve specific water consumption up to maximum of 3.5 m ³ /MWh within a period of two years from the date of publication of notification.
2	All existing CT-based plants reduce specific water consumption up to maximum of 3.5 m ³ /MWh within a period of two years from the date of publication of notification.
3	New plants to be installed after 1 st January 2017 shall have to meet specific water consumption up to maximum of 2.5 m ³ /MWh and achieve zero waste water discharged.

Further, to the above MoEF & CC notification, MoEF & CC has subsequently issued an Amendment dated 28th June 2018 for stack height post FGD and water Consumption which is mentioned below:

SUMMARY OF NEW DRAFT AMENDMENT

Chimney Height post FGD installation:

Sl. No.	Industry	Parameter	Standards
1	Thermal Power plants with Flue gas Desulfurization (FGD)	Chimney Height/Limit in Meters	<p>Power Generation capacity : 100 MW and above $H = 6.902 (QX0.277)^{0.555}$ Or 100 m Whichever is more</p> <p>Less than 100 MW $H = 6.902 (QX0.277)^{0.555}$ Or 30 m Whichever is more</p> <p>Q = Emission rate of SO₂ in kg/hr* H = Physical chimney height in meter</p> <p>* Total of all units connected with chimney. Note: These standards shall apply to coal / lignite based thermal power plants.</p>

- All monitored values for SO₂ and NO_x shall be corrected to 6% Oxygen, on dry basis.
- Specific water consumption shall not exceed maximum of 3.0 m³/MWh for new plants installed after the 1st January 2017 and these plants shall also achieve zero waste water discharge.
- Seawater based plants are exempted from conversion of once through cooling system to Cooling Tower based system.

TARGET SO₂ EMISSION VALUE FOR GVK THERMAL POWER (GOINDWAL SAHIB) PLANT:

The two (02) units of 270 MW at GVK Thermal Power (Goindwal Sahib) Plant were commissioned on :

Unit#1 06 April 2016

Unit# 2 16 April 2016

The applicable SO_x emission limit for GVK Thermal Power (Goindwal Sahib) Plant is 600 mg/Nm³. However, to take care of variation in operating input parameters such as deterioration in coal quality, higher sulphur content in coal, higher flue gas temperature and flow, higher plant heat rate etc. sufficient design margin needs to be considered on actual performance parameters.

APPLICABLE NORMS FOR GVK THERMAL POWER (GOINDWAL SAHIB) PLANT

Year	SPM	SO ₂	Nox	Mercury
2003-2016	50mg/Nm ³	600 mg/Nm ³	300mg/Nm ³	0.03mg/Nm ³

Salient Features Of Power Plant:

1. Plant Capacity: 2x270 MW=540 MW with Sub-critical technology.
2. Average Availability (2018-19 Apr-to Jan) :63.5 %
3. Average PLF(2018-19 Apr-to Jan): 47.9 %
4. Major PPA: 90.7% PSPCL
5. Average actual GCV (2018-19 Apr-to Jan): 3320 Kcal/kg.
6. Average Sulphur in Coal (2018-19 Apr-to Jan): 0.45%

TECHNOLOGY

In feasibility report GVK Thermal Power (Goindwal Sahib) Plant has opted for “Wet Lime Stone” based FGD technology. However following two So₂ removal technologies are technically & commercially feasible at GVK Thermal Power (Goindwal Sahib) Plant .

- i. Wet Lime stone Base FGD.
- ii. Ammonia Based FGD.

In case Wet FGD (Lime stone based) is considered by GVK Thermal Power (Goindwal Sahib) Plant, the reagent source may be selected based on availability of limestone, limestone purity, cost and quality. Additionally Source of limestone should be chosen with life cycle cost analysis.

In case of Ammonia based FGD, utmost care shall be needed to handle the reagent and the demand of the by product may be ascertained. Also disposal/use of byproduct if no demand is available may be taken care off.

GVK Thermal Power (Goindwal Sahib) Plant to make lifecycle cost benefit analysis and technical feasibility before opting for either of above mentioned technologies for optimization of CAPEX, OPEX and subsequent implication on tariff.

ENGINEERING ASPECTS

1. **Absorber**-Individual absorber for each Unit.
2. Limit SO₂ below environment norms with up to 0.65 % Sulfur content in Coal.
3. **Absorber Lining** – Such as Ceramic Tiles/clad sheet of C-276/Alloy 59 /Steel Alloy/Glass flake filled multi-functional epoxy /glass flake lining etc.
4. **Other lining** - All ducts, effluent handling pits or concrete zone etc. to be protected with glass flake based coating/ Steel Alloy Lining etc. Piping may be of flake glass based coating/carbon steel rubber lined (CSRL)/rubber lining however lesser diameter pipes can be of GRP(Glass Reinforced Plastic)/FRP (Fibre Glass reinforced Plastic)/ Alloy Steel material etc.
5. **Monitoring System**- Measurement of SO₂ in the outlet and inlet are important for the calculation of the FGD efficiency and control the amount of reagent. The important parameters for deciding monitoring system are response time (shorter the better), less inventory (common for inlet and outlet), less maintenance (high maintenance interval). In view of this proven advance technology may accordingly be selected considering the plant specific requirements.
6. **Auxiliary Power Consumption**- The maximum Additional Auxiliary power Consumption for complete FGD facilities will be maximum 1.0% for Limestone based FGD and maximum 0.8% for Ammonia based FGD.
If the existing chimney is used, the requirement of GGH may be seen. The additional Auxiliary Power Consumption with GGH (only if using old chimney) will be maximum 0.3%.

INDICATIVE COST ESTIMATION

An indicative Base cost estimation is done by CEA in order to facilitate GVK Thermal Power (Goindwal Sahib) Plant determine the price for installation of FGD on the major heads of CAPEX & OPEX.

CAPEX

The indicative estimated cost for Wet limestone base FGD works out to Rs. 0.45 Cr/MW (CAPEX only for Lime stone based FGD). This indicative cost is the "Base Cost" only and does not include Opportunity cost (associated with generation loss due to interconnection of chimneys with absorber) and Taxes-Duties. This Indicative "Base cost is calculated considering new chimney without GGH.

In case of ammonia based FGD, CAPEX (BASE COST) is typically around 10 % less as compared to wet lime stone based FGD, considering the fact that Pulverizes / crushers / milling system / transfer belts are not required as ammonia is in liquid form. The circulation pumps and associated system will be much smaller and also the waste water disposal system is not required in ammonia based FGD.

NOTE: GVK Thermal Power (Goindwal Sahib) Plant has shown the piling foundation requirement for FGD facilities structures, resulting in additional CAPEX beside the Indicative "Base Cost". GVK Thermal Power (Goindwal Sahib) Plant is advised to approach regulator at appropriate stage for any piling related additional Cost implications.

The cost of retrofitting FGD for GVK Thermal Power (Goindwal Sahib) Plant should be discovered through open competitive bidding in consultation with lead procurer. The lead procurer (to be invited by GVK Thermal Power (Goindwal Sahib) Plant) may participate in bidding process till final award of FGD contract.

OPEX

Operating Cost (OPEX) will include Reagent cost, Additional water consumption associated with FGD, Manpower cost, Auxiliary Power Consumption, By-product handling and revenue earned through disposal of by product. The OPEX should be kept as low as possible by reducing Auxiliary Power Consumption and producing good quality of saleable by-product.

OPPORTUNITY COST

Since interconnection of chimneys with absorber may result in loss of generation of the plant, hence GVK Thermal Power (Goindwal Sahib) Plant is advised to minimize this interconnection time by taking suitable measure so that the "Opportunity cost" associated with interconnection may have least impact on tariff revision.

CHIMNEY & LINING

In feasibility report GVK Thermal Power (Goindwal Sahib) Plant has opted for new wet chimney.

Option I (As opted by GVK Thermal Power (Goindwal Sahib) Plant)

Single new wet chimney with 02 flue on ground.

The other chimney options for GVK Thermal Power (Goindwal Sahib) Plant are as follows

Option II

New permanent wet chimney above each Absorber.

Option III

Separate new wet chimney over ground for each absorber.

Option IV.

Using Existing chimney by converting it to Wet Chimney by applying appropriate corrosion protection lining and to avoid loss of generation a temporary chimney may be provided above each absorber or on ground.

Final selection of chimney may only be made after conducting a lifecycle cost benefit analysis and seeing technical feasibility of available options before opting for either of above option.

Corrosion Protection Lining for Chimney:

Currently there are various lining material are available in the industry which can resist the sulfur based acids and which can be used for corrosion protection as mentioned below.

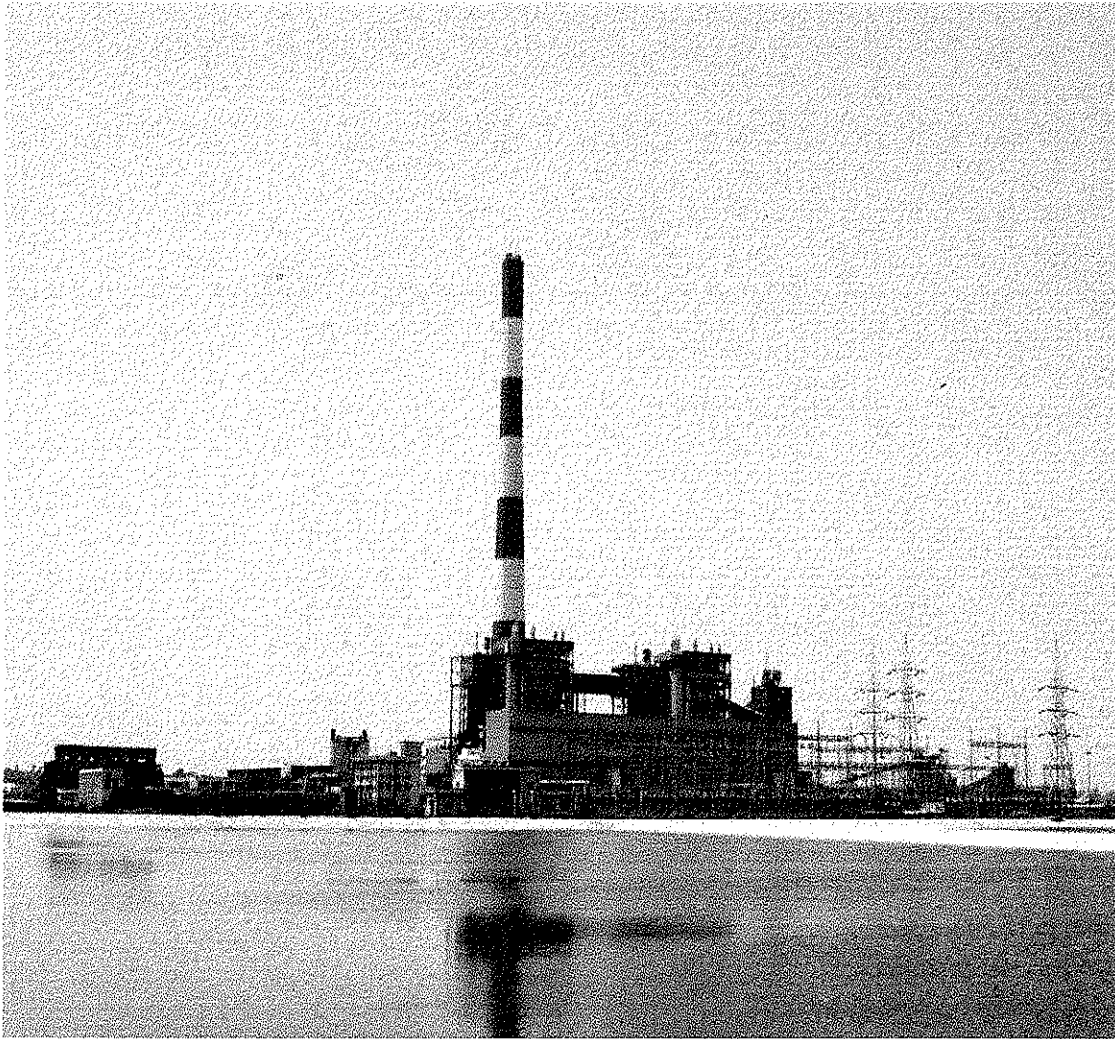
- i. Borosilicate Block lining
- ii. Steel Alloy lining
- iii. Glass flake filled epoxy phenol novolac .
- iv. Glass flake lining etc.

GVK THERMAL POWER (GOINDWAL SAHIB) PLANT is advised to study “the cases of failure” of all lining material used for corrosion protection for various sections of FGD system. The life cycle cost analysis for selection of these materials may be done considering these failure studies for optimum selection.

Annexure 7 (2 of 2)_Feasibility Report_FGD

FEASIBILITY REPORT

TO MEET NEW EMISSION REGULATIONS OF MOEF & CC



GVK POWER (GOINDWAL SAHIB) LIMITED

2X 270 MW COAL BASED THERMAL POWER PROJECT

GOINDWAL SAHIB, PUNJAB

MARCH, 2019

PREPARED BY :



Save Urja

M/s Save Urja

GVK



Annexure 7 (2 of 2)_Feasibility Report_FGD

Feasibility Report – 2 X270 MW

M/s GVK Power (Goindwal Sahib) Limited

Date of Issue:		Project Site:		
08/03/2019		GVK POWER (GOINDWAL SAHIB) LIMITED PUNJAB 2 X 270 MW COAL BASED THERMAL POWER PROJECT		
Project Title:				
Consultancy services for detailed feasibility study to meet new emission regulations of MOEF & CC for DeNOx & DeSOx measures				
Organisation:		Client:		
M/s Save Urja		GVK POWER (GOINDWAL SAHIB) LIMITED PUNJAB 2 X 270 MW COAL BASED THERMAL POWER PROJECT		
Technical Review:		<input checked="" type="checkbox"/> No Distribution (without permission from the Client or responsible organisational unit) <input type="checkbox"/> Limited Distribution <input type="checkbox"/> Unrestricted Distribution		
Date: 08/03/2019 Name: Vishal Goyal				
Authorised Signatory:				
Name: Vishal Goyal Date: 08/03/2019				
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Annexure 7 (2 of 2)_Feasibility Report_FGD

Feasibility Report – 2 X270 MW

M/s GVK Power (Goindwal Sahib) Limited

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We at M/s Save Urja are thankful to the management of GVK Power (GOINDWAL SAHIB) Limited for awarding work for Consultancy services for detailed feasibility study to meet new emission regulations of MOEF & CC for DeNOx & DeSOx measures for GVK Power Limited Punjab Location

The cooperation and full-fledged support from all GVK Power Limited personnel is acknowledged.

The plant is located at Goindwal Sahib, Punjab. This report captures the outcomes of analysis of primary data available with the plant, analysis, calculations, best available technologies and secondary research.



1 EXECUTIVE SUMMARY

This Feasibility Study Report provides proposals to retrofit the GVK Power (Goindwal Sahib) Limited 2X270 MW Coal fired thermal power plant in Punjab by emission control technology on DeSO_x.

The target on emission figures is given by the new Indian law published by Ministry of Environment, Forest and Climate Change (MoEF&CC) vide notification dated 07-12-2015.

GVK Power has retained the services of M/s Save Urja to study and analyze the impact of the new MOEF & CC norms for 2 x 270 MW operating unit at Goindwal Sahib in Punjab state and provide comprehensive optimal solutions to comply with the new regulation standards.

Presently the plant has two streams of four fields electrostatic precipitator (ESP) for 270 MW Unit to control the SPM level in the flue gas to 50 mg/Nm³ which meets the new emission regulations. Also, based on the input data furnished by GVK Power, the level of SPM being monitored is less than 50 mg/Nm³. Hence, there is no additional abatement required.

Data Provided by the plant shows that plant current NO_x emission are going up to 390 mg/Nm³ And above the norms of MoEF and CC. Therefore, abatement is required for NO_x emissions.

Presently GVK Power is suggested to carry out Primary NO_x reduction process (combustion optimisation) to meet the new emission norms of MoEF& CC. However, a combustion optimisation expert team need to be deployed for studying existing combustion process and optimising the NO_x levels generated in boilers.

Regarding DeSO_x measures, Considering the extent of sulphur absorption required, flexibility of fuel firing, meeting further stringent emission norms in future, and the large volume of flue gas to be treated, limestone slurry sorbent based once-through, wet type FGD with forced oxidation, having a minimum designed SO₂ absorption efficiency of 93.53% is selected as the optimum technology. Other factors like reliability, low cost reagent, marketable by-product, unavailability of seawater, proven nature of technology and cost effectiveness, make the above wet limestone based desulphurization of flue gas more suitable and hence, is recommended. Currently system is operating at 1,670 mg/ Nm³. However, during worst coal the operating value reached up to 1,689 mg/ Nm³ at 0.6% sulphur in coal. Hence system will be designed to operate for sulphur percentage up to 0.65%.

The wet lime FGD would treat 100% of flue gas quantity. FGD system would require maximum of about 6.6 TPH of limestone feed for treatment of flue gas, considering ≥ 90% purity of limestone. The limestone requirement would depend on the sulphur content of the coal and purity of the limestone. The total requirement of limestone per day for both unit FGD would be about 158 TPD.



FGD Unit would require a maximum of about 100 m³/h of fresh make up water for the process, and subsequently generate about a maximum of 25 m³/h of waste water which requires further treatment.

The gypsum which is a by-product generated from FGD would be a maximum of about 12 TPH and the total generation of gypsum per day would be about 277 TPD. It is proposed to convey the gypsum directly on to trucks for disposal or could be dumped in the storage yard located adjacent to the gypsum dewatering building.

Traces of mercury present in the coal would be present as mercury oxides in flue gas. Based on the input coal data provided by GVK Power, the present coal analysis does not indicate any traces mercury content. Further, the ESP would reduce mercury emission to the extent of 21% as per US EPA. Hence, no new mercury emission control equipment is proposed presently. It is hereby advised to get the coal tested for any trace metal in order to check for mercury and to install mercury analyzers, if traces of mercury are found.

Currently, the maximum water consumption of GVK Power is nearly 3.43 m³/MWh. Hence additional water requirement for the FGD system would be met from existing water allocation. However additional cost towards additional clarified water consumption and waste water treatment need to be incurred.

The schedule of implementation of FGD system would be approximate 30 months from the date of order of the FGD. The duration for construction of a new 100 m two flute wet chimney is around 18 months.

The CAPEX for implementation of all proposed emission control systems into GVK Power under this project is estimated ₹ 263 Crores. Detailed calculations are provided in chapter 7 of the report.



2 INTRODUCTION

2.1 BACKGROUND

Ministry of Environment Forest and Climate Change (MOEF& CC) Government of India, has released new environmental regulations applicable to coal fired thermal power plants in the country on 7th December 2015 and the draft amendment on 15th October, 2017. The new norms shall be complied by all operating Thermal Power Stations and new Thermal Power Projects within a period of 2 years from the date of the notification.

GVK Power (Goindwal Sahib) Limited consists of 2 X 270 MW Coal based thermal power plant at Goindwal Sahib District of Punjab State, India. The power plant consists of two units of 270 MW.

Table 1: Date of Commissioning

Capacity	2 X 270MW
Commercial Operation Declaration	06-04-2016 - #U 1 16-04-2016 - #U 2

GVK Power has retained the services of M/s Save Urja to study and analyze the impact of the new MOEF & CC norms for 2 X 270 MW at Goindwal Sahib in Punjab state and provide comprehensive optimal solutions to comply with the new regulation standards.

2.2 BRIEF REVIEW OF THE NEW REGULATION

Ministry of Environment & Forest (MOEF&CC) of Government of India (GOI) has issued Gazette Notification dated 7th December 2015 which modifies existing norms related to emission of SPM and introduces new norms for emission of SO₂, NO_x and mercury from Thermal Power Plants (TPP). It also specifies modified limits for specific water consumption by TPPs and insists to convert existing once through based condenser cooling system to recirculation type.

Different limits are specified based on capacity of power plant and year of installation. A summary of new regulations on air emission is given below:

Table 2: Summary of New Regulations on Air Emission

Year	SPM	SO ₂	NO _x	Mercury	Remarks
Pre 2003	100mg/Nm ³	600mg/ Nm ³ for <500MW 200mg/ Nm ³ for >500MW	600mg/ Nm ³	0.03mg/ Nm ³ for >500MW	Not applicable
2003-2016	50mg/ Nm ³	600mg/ Nm ³ for <500MW 200mg/ Nm ³ for >500MW	300mg/ Nm ³	0.03mg/ Nm ³	Applicable for GVK Power
Post 2017	30mg/ Nm ³	100mg/ Nm ³	100mg/ Nm ³	0.03mg/ Nm ³	Not applicable

The new regulations related to water is given below

Table 3: New Water Regulations

Summary of new regulations on water use Sl. No.	New requirement	Remarks
1	All plants with Once Through Cooling (OTC) shall install Cooling Tower (CT) and achieve specific water consumption up to maximum of 3.5m ³ /MWh within a period of two years from the date of publication of notification.	Not applicable
2	All existing CT-based plants reduce specific water consumption upto maximum of 3.5m ³ /MWh within a period of two years from the date of publication of notification	Applicable for GVK Power
3	New plants to be installed after 1st January 2017 shall have to meet specific water consumption upto maximum of 2.5 m ³ /MWh and achieve zero waste water discharged	Not applicable

Note: Unit of 2 X 270 MW at Goindwal Sahib, Punjab was commissioned in year 2016.



Annexure 7 (2 of 2)_Feasibility Report_FGD

Feasibility Report – 2 X270 MW

M/s GVK Power (Goindwal Sahib) Limited

Table 4: Applicable Air Emission Norms for The GVK Power Plant

Year of Commissioning	SPM	SO ₂	NO _x	Mercury
2003-2016	50 mg/Nm ³	600mg/Nm ³ for <500MW 200mg/Nm ³ for >500MW	300 mg/Nm ³	0.03mg/ Nm ³

Further, to the above MOEF & CC notification have subsequently issued a draft amendment dated 16th October 2017 for stack height post FGD which is as per Table below:

Table 5: New Draft Amendment on Stack Height Post FGD

Industry	Parameter	Standards	Remarks
Thermal Power plants with Flue gas Desulphurization (FGD)	Stack Height/Limit in Meters	Power Generation capacity: 100 MW and above H = 6.902 (QX0.277) ^{0.555} Or 100 m Whichever is more	Applicable for GVK Power
		Less than 100 MW H = 6.902 (QX0.277) ^{0.555} or 30 m Whichever is more Q = Emission rate of SO ₂ in kg/h H = Physical stack height in meter	Not Applicable



2.3 SCOPE OF WORK

GVK Power Limited has a major power portfolio of utility scale TPP. GVK Power would like to implement Emission Control in the following power plants

a) 2 X 270 MW Goindwal Sahib, Punjab

The scope of this report is to study the existing plant facilities and the emissions that are generated at the present level. To meet the new emission norms of MOEF & CC, the modifications / new equipment to be added/ modified/ retrofitted to the existing system are studied in details. The following studies were carried out:

- Estimation & analysis of the present plant emission levels based on fuel nature & operating conditions
- Comparative study of the various types of emission abatement technologies commercially available in the market and selection of optimal technology solutions considering the space required for retrofit, percentage reduction of emissions, availability, source & cost of reagents, utilization of by-product, auxiliary power consumption, utilities requirement, plant operating conditions, proven nature of technology and life cycle cost analysis, as required.
- Study of space/provision available in the existing plant for installation of the proposed abatement technologies with relevant sub-systems and impact/modification of the existing plant equipment, civil aspects, plant instrumentation & control, electrical power supply system & other plant parameters, due to the retrofit.
- Estimation of first order cost estimates of CAPEX and OPEX with break-ups under major heads for the selected commercially available optimal technologies
- Project Implementation schedule for above to meet the new norms.



2.4 PROJECT AT A GLANCE

GVK Thermal Power Plant is situated at a distance of 6.0 kms to the South-East of Khadoor sahib railway station on the Beas section of Northern railway at latitude of 31°21'35" to 31°24'40" north and a longitude of 75°07'30" to 75°10'55" east, adjacent to villages Goindwal sahib to its south, and Vairawal to its north, and about 25 kms East of Tarn Taran town and 27 kms West of Kapurthala in the State of Punjab.

Project Authority	:	GVK Power (Goindwal sahib) Ltd. a part of GVK group
Project	:	Implementation of FGD in the plant
Type	:	Wet Limestone based FGD
Location	:	Village- Goindwal Sahib, Tehsil- Khadur Sahib, Dist. Tarn Taran, Punjab.
Latitude	:	31°21'35" to 31°24'40"
Longitude	:	75°07'30" to 75°10'55"
Access by Rail	:	Nearest Railway Station – Khadur Sahib
Nearest Airport	:	Amritsar
Nearest Sea Port	:	Kandla Port, Gujrat
Site Elevation	:	220 meters

Proposed Project Particulars

FGD Type	:	Wet Limestone based FGD
Availability of Limestone	:	Available from nearby Cement Manufacturers
Water availability	:	Available in the plant
Land	:	Within existing plant boundary

Environmental Aspects

The entire project is envisaged to implement the requirements of MOEF&CC of limiting the SO₂ emission in the flue gas.

3 PRESENT AIR EMISSION AND WATER UASGE OF THE PLANT

3.1 AIR EMISSIONS

3.1.1 SUSPENDED PARTICULATE MATTER (SPM)

Presently the plant has two streams of four fields electrostatic precipitator (ESP) for each unit of 270 MW Unit to control the SPM level in the flue gas to 50 mg/Nm³ which meets the new emission regulations. Also, based on the input data furnished by GVK Power, the level of SPM being monitored is less than 50 mg/Nm³. Hence, there is no additional abatement required.

3.1.2 SULPHUR DIOXIDE (SO₂) EMISSIONS

Sulphur oxides are generated as a result of oxidation of the sulphur present in the coal at the combustion zone. The SO₂ emission levels would vary depending on the sulphur content and the composition of the coal fired. Based on the input coal analysis report furnished by GVK Power, the estimated SO₂ emission levels for design and worst coal are shown in the table. Since, the estimated emission levels of SO₂ exceed the applicable norm of 600 mg/Nm³ in dry basis at 6% O₂, the percentage abatement of SO₂ is required to meet the new regulation is as per table below:

Table 6: Current SO₂ Emissions Values

Particulars	2 X 270 MW, GVK Power	
	Maximum	Worst
SO ₂ level	1,670 mg/ Nm ³	1,689 mg/ Nm ³
SO ₂ limit values	600 mg/Nm ³	600 mg/Nm ³
Required removal efficiency	>93.53 %	>93.53 %

Note: Further details are attached in Annexure of the report.

3.1.3 NITROGEN OXIDE (NO_x) EMISSIONS

Nitrogen oxides are generated as a result of combustion of coal at elevated temperatures. The NO_x emission levels depend on the composition of coal, operating load and nature of operation.

Table 7: Current NO_x Emissions Values

Particulars	2X270 MW, GVK Power
NO _x (Worst)	390 mg/Nm ³
NO _x (Maximum)	347 mg/Nm ³

Note: Further details are attached in Annexure of the report.



3.1.4 MERCURY (HG) EMISSIONS

Traces of mercury present in the coal would be present as mercury oxides in flue gas. Based on the input coal data provided by GVK Power, the present coal analysis does not indicate any traces mercury content. Further, the ESP would reduce mercury emission to the extent of 21% as per US EPA. Hence, no new mercury emission control equipment is proposed presently. It is hereby advised to get the coal tested for any trace metal in order to check for mercury and to install mercury analyzers, if traces of mercury are found.

Table 8: Present Air Emission and need for Abatement for GVK Power

Pollutant	Maximum Estimated Emissions (without Abatement) mg/Nm ³ at 6% O ₂ , dry basis		Allowable Limits as per new regulation mg/Nm ³	Abatement Requirement
	Design Coal	Worst Coal		
SPM	< 50	< 50	< 50	Not Required
SO ₂	1670	1689	600	Required
NO _x	347	390	300	Required
Mercury	-	-	0.03	Not Required



Annexure 7 (2 of 2)_Feasibility Report_FGD

Feasibility Report – 2 X270 MW

M/s GVK Power (Goindwal Sahib) Limited

3.2 WATER USAGE

The raw water is pumped from Beas River to the plant raw water reservoir located inside the plant boundary and meets the plant water requirements. The plant is already provided with re-circulating type condenser cooling water system and hence, does not require any change with respect to this aspect to meet the requirements of new environmental norms


Plant has furnished the data provided to CPCB for last five year which shows the water consumption of the plant is less than the norms of MoEF and CC.

Currently, the maximum water consumption of GVK Power is nearly 3.43 m³/MWh. Hence additional water requirement for the FGD system would be met from existing water allocation. However additional cost towards additional clarified water consumption and waste water treatment need to be incurred.

Table 9: Annual Water Consumption for the Year 2017-18

ANNUAL WATER CONSUMPTION FOR THE YEAR 2017-18													
NAME OF THE THERMAL POWER STATION: GVK Power (Goindwal Sahib) Limited, Kapurthala Road, Near Goindwal Sahib, TarnTaran, 143 422													
TYPE OF FUEL USED: Coal													
LATITUDE AND LONGITUDE OF THE PLANT: 31° 21' 36" N 31° 24' 40" N 75° 07' 30" E 75° 07' 30" E													
CONTACT NO., EMAIL AND FAX NO. Phone no. 01859-225103, bivashchandra.ghosh@gvk.com, Fax: 01859-225113													
Unit No.	Capacity (MW)	Gross actual Generation (GWh)	Type of Water Source (River/Canal/Sea etc.)	Name of the water source	Type of Cooling (OTCW/CT/ACC)	Annual Allocated Quantity of Water (1000m3)	Annual Actual Consumption of Water (1000 m3)		Total Annual actual Consumption of Water (1000m3)	Actual Consumption (m3/MWh)	Applicable Water Norm (m3/MWh)	%Deviation From Norms*	Whether Zero Liquid Discharge (yes/No)
							Metered	Unmetered					
1 & 2	(2X270)	1538.066	River	Beas River	CT	17849230	5280656		5280656	3.43	3.5	Nil	YES
Total	540	1538.066				17849230	5280656		5280656	3.43	3.5		

OTCW- Once Through Cooling Water System, CT- Cooling Tower Along with type of CT, ACC- Air Cooled Condenser.
 *Reason of such Deviations, if exceeding norms and corrective measures under taken against the deviation, if any.



4 COMPARISON AND SELECTION OF TECHNOLOGY FOR REDUCING EMISSIONS AND WATER USAGE

This chapter includes description of major technological options broadly available for the plant to control emissions which require abatement measures to meet the new regulations. i.e. for SO₂ and NO_x. It also includes technical details of the treatment of waste water with introduction of FGD which would be required to meet new regulations.

4.1 EXPLORING TECHNOLOGIES FOR REDUCING SULPHUR DIOXIDE (SO₂) EMISSIONS

4.1.1 WET LIMESTONE FLUE GAS DESULFURIZATION

In this technology, limestone is used as reagent, which is ground in the mill and mixed with water to make slurry and sprayed on the absorber through nozzles. The flue gas coming out from the ID fan is sent to absorber where it reacts and forms the gypsum. The cleaned flue gas is sent to the chimney. The system is a once-through, wet type in which the SO₂ gas is permanently bound by the sorbent which must be disposed of as a by-product, gypsum. The by-product is produced is wet in nature, and flue gas leaving the absorber is saturated with moisture.

Chemical reactions taking place are given below,

- Absorption: $\text{SO}_2 + \text{H}_2\text{O} \rightarrow \text{H}_2\text{SO}_3$
- Neutralization: $\text{CaCO}_3 + \text{H}_2\text{SO}_3 \rightarrow \text{CaSO}_3 + \text{CO}_2 + \text{H}_2\text{O}$
- Oxidation: $\text{CaSO}_3 + 1/2\text{O}_2 \rightarrow \text{CaSO}_4$
- Crystallization: $\text{CaSO}_4 + 2\text{H}_2\text{O} \rightarrow \text{CaSO}_4 \cdot \text{H}_2\text{O}$

A typical Scheme of Wet Limestone FGD is illustrated in below figure:

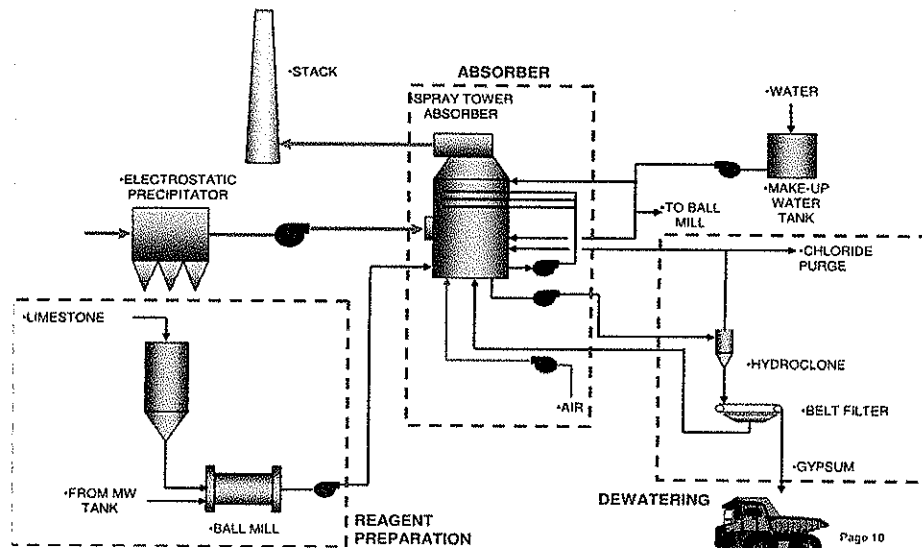


Figure 1: Wet Limestone Based FGD System

Advantages of Wet FGD:

- Well-established FGD technology on a variety of world coals with proven reliability
- SO₂ removals up to 95% are common and removals as high as 98% can be attained.
- Adequate and commercially viable suppliers offer the technology.
- Reagents used by the process are plentiful and readily available.
- Waste gypsum is stable for landfills without blending with fly ash and lime and it can also be designed to produce wallboard-grade gypsum as a saleable by-product.
- The FGD system is not sensitive to boiler operational aspects like cyclical variations.

Disadvantages of Wet FGD:

- In this process, large quantities of slurry is circulated leading to high pumping power consumption.
- The pressure drop across the absorber increases the induced draft (ID) fan power consumption.
- These processes can produce a large volume of gypsum. The reuse/ saleability of this by-product is dependent on a sufficiently sized gypsum market near the plant.
- The high potential for corrosion requires extensive use of costly corrosion-resistant alloys or non-metallic liners as materials of construction for the absorber and other system components.
- Either Wet stack with condensate collection system or Gas to Gas heater is required to avoid corrosion in Stack.
- Difficulty in sourcing/ handling of Limestone
- Disposal/handling of generated waste

4.1.2 SEA-WATER BASED FLUE GAS DESULFURIZATION

In this technology, sea water is used as the absorbent of SO₂ in the flue gas. The flue gas from the ID fan outlet is sent to the absorber where the sea water is sprayed through nozzles. Sea water contains significant amounts of HCO₃⁻ and other alkaline compounds that help sulphur dioxide in flue gas dissolve in water and convert to sulphate which is natural constituent of seawater. The acidic absorbent liquid reacts with alkaline components naturally existing in the sea water. The hydrogen ions are neutralized by the bicarbonates and turns into water and carbon dioxide.

Every ton of seawater contains approximately 0.9 kg of sulfur, which is an essential substance to the marine environment.

The seawater discharge post scrubbing passes through aeration and dilution stage. The pH and dissolved oxygen levels of seawater are maintained prior to discharge back to sea.

Chemical reaction:

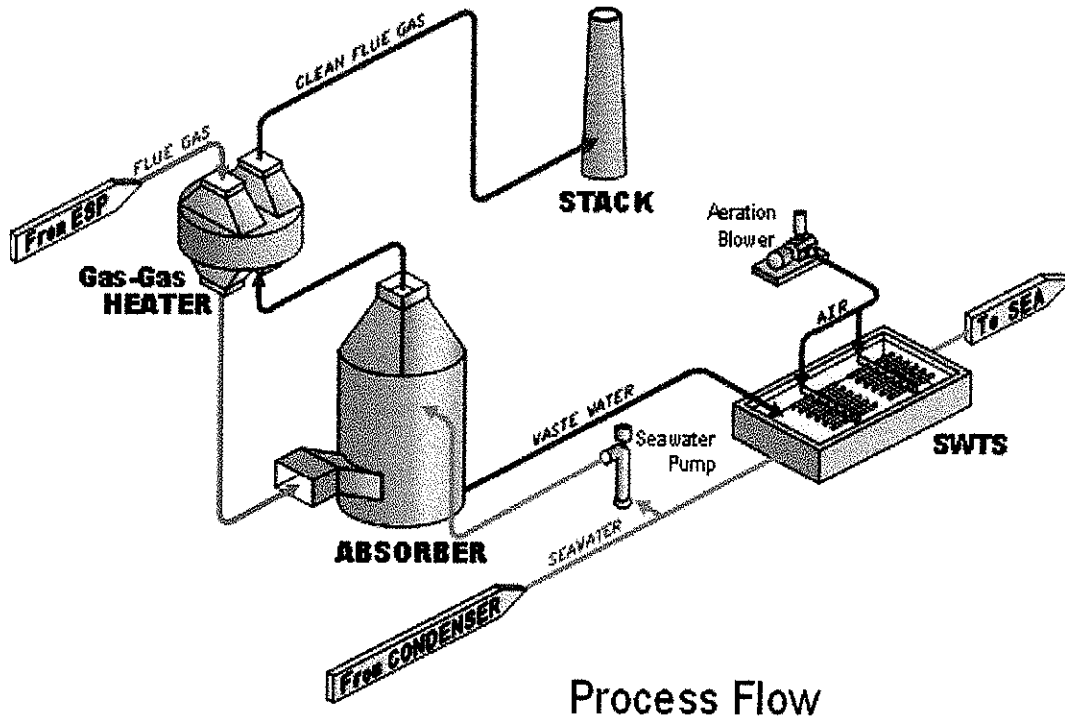
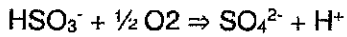
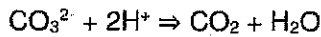
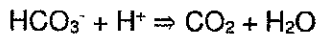
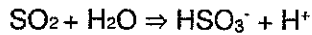


Figure 2: Sea Water Based FGD System

Advantages of Sea Water FGD:

- Less capital cost
- Lower auxiliary power consumption
- No reagent and no by-product
- No Effluent discharge
- Flexibility of handling varied range of sulphur content in coal
- No handling hazardous material

Disadvantages of Sea Water FGD:

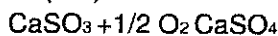
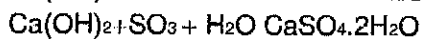
- The plant must be located nearby sea

Since GVK Power TPP is far away from sea, hence this technology is not considered for further evaluation.

4.1.3 SEMI DRY/ DRY FLUE GAS DESULFURIZATION

This technology uses lime slurry as reagent. The lime (slaked or quick lime) is mixed with water at a controlled rate to maintain a high slaking temperature that helps to generate fine hydrates of lime with high surface area. The flue gas post ESP enters the spray dryer absorber where the gas stream is cooled by the reagent slurry spray. The mixture then passes through the fabric filter for removal of particulate before entering the ID fan. A portion of the un-reacted lime, gypsum and the reaction products collected in the fabric filter is mixed with water and returned to the process as high solid slurry. The remaining solids are directed to a storage silo for by-product. The by-product is semi-dry/dry in nature and flue gas leaving the absorber is not fully saturated with moisture.

➤ Primary reactions in the spray dryer are as follows:



A Typical Scheme of Dry FGD is illustrated in the figure

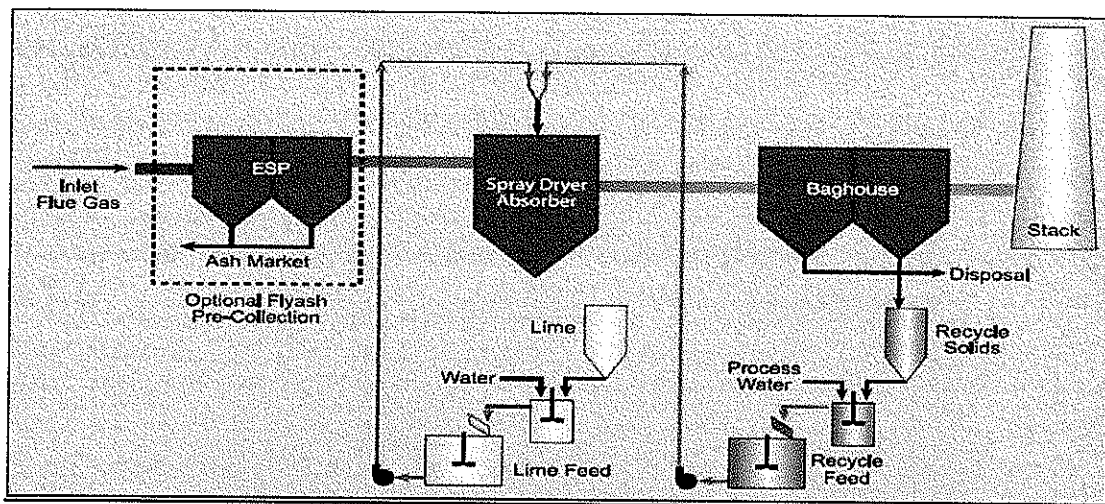


Figure 3: Dry Based FGD System

Advantages

- Has less capital cost for smaller units of less than 300 MW
- Has Lower water consumption and auxiliary power consumption
- Production of dry solid by products with minimum need for dewatering
- There is no visible moisture plume in stack, as the flue gas leaving absorber is not saturated with moisture.
- High percentage capture of mercury present in flue gas

Disadvantages

- Cost of Lime, and lime Storage is higher
- Limited to low sulphur fuel because of high reagent cost
- Limited reagent utilization
- Relatively lower Sox reduction efficiency
- Increases particulate flow, requires fabric filters or enhancement of ESP capacity
- By product generated cannot be utilized in commercial applications and requires land

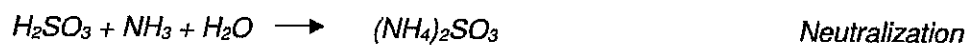
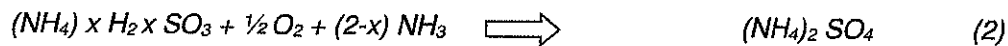
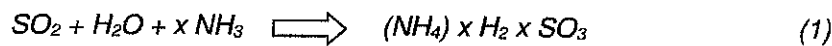
Other Operational Issues:

- O&M costs high with high SO₂ levels
- Sorbent costs four (4) times higher than limestone costs
- Installation costs comparable with limestone system
- Technology is not widely accepted by the industry and hence not proven

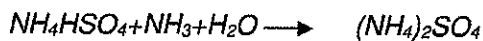
Note: Due to the above mentioned reasons this FGD process technology is not considered for further evaluation.

4.1.4 AMMONIA BASED FGD SYSTEM

In Ammonia based FGD process, ammonia with high reactivity is used as absorbent to capture SO₂ in the flue gas, and the by-product of the process is ammonium sulfate fertilizer.



Neutralization



Neutralization

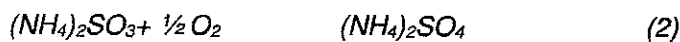
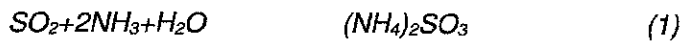
Reaction (1) shows SO₂ dissolution in water to form sulfurous acid.

Reaction (2) shows neutralization of sulfurous acid with ammonia to form ammonia sulphite.

Reaction (3) shows additional neutralization of sulfurous acid with ammonium sulphite to form ammonium bisulphate.

Reaction (4) and (5) show oxidation of sulphites to form sulfate and bisulphate

Reaction (6) shows neutralization of bisulphate with ammonia to form ammonium sulphate.



For every kilogram of SO₂ removed:

- ~ One half kilogram Ammonia reagent consumed
- ~ Two kilogram of marketable Ammonium Sulphate produced

One Kilogram of Ammonia generates ~ four kilogram of Ammonium Sulphate fertilizer.

Ammonium sulphate solution is refined through concentration, crystallization, solid-liquid separation, drying to obtain ammonium sulphate fertilizer

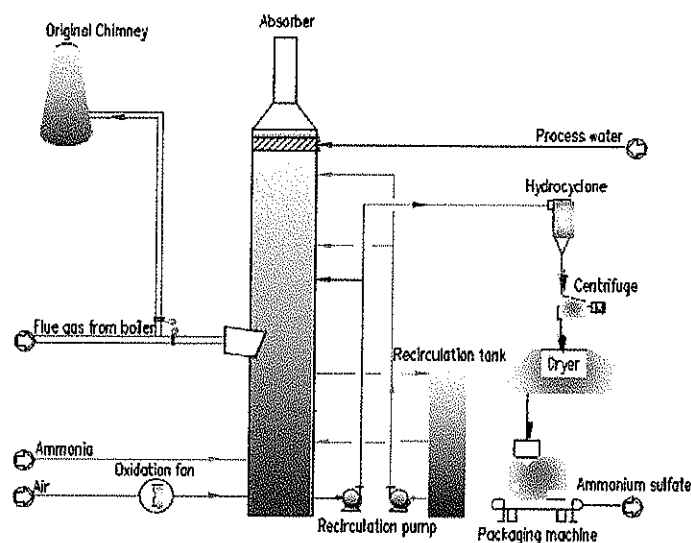


Figure 4: Ammonia Based FGD System



Advantages of EADS based FGD:

- No waste water and solid waste is generated in the process
- High flexibility to handle fluctuations in gas flow rate and Sulphur content from 0.3 to 8% and flue gas with SO₂ content from 300 to 30,000 mg/Nm³ or higher

Disadvantages of EADS based FGD:

- Higher OPEX due to costly reagent. Even if we are not able to sell 25% by-product generated, this technology becomes unviable.
- Safety concerns related to handling and storage of anhydrous ammonia as permission is required for installation of same
- Locating anhydrous ammonia storage and handling system within existing plant may be an issue because of safe distance required between existing structure and ammonia storage tanks.
- It is not economically viable, where Sulphur % is less than 0.5%.
- Operating experience of Ammonia based FGD Technology is not available in India.

4.1.5 SORBENT POLYMER CATALYST (SPC) TECHNOLOGY

It is a unique fixed catalyst and sorbent system for removing gas phase SO₂ and mercury from industrial flue gas. The SO₂ Control System has an added advantage of mercury control. The system is based on discrete stackable Modules that are installed downstream of a particulate collection system (i.e., tail-pipe solution). The modules utilize an open channel design which results in very low pressure drop. In practice, flue gas after a Particulate Matter collection device (bag house or ESP) is first quenched with water to cool and humidify the gas stream (< 60 °C and > 95% relative humidity preferred operating window). The cooled gas is then directed through a bank of modules. Operation is passive; the modules will continuously convert SO₂ to liquid sulfuric acid in the presence of H₂O and excess air in flue gasses, and chemically absorb mercury for many years without requiring any adjustment, regeneration or replacement. The system is completely scalable- modules can be stacked in the direction of the gas flow to achieve desired SO₂ removal efficiency.

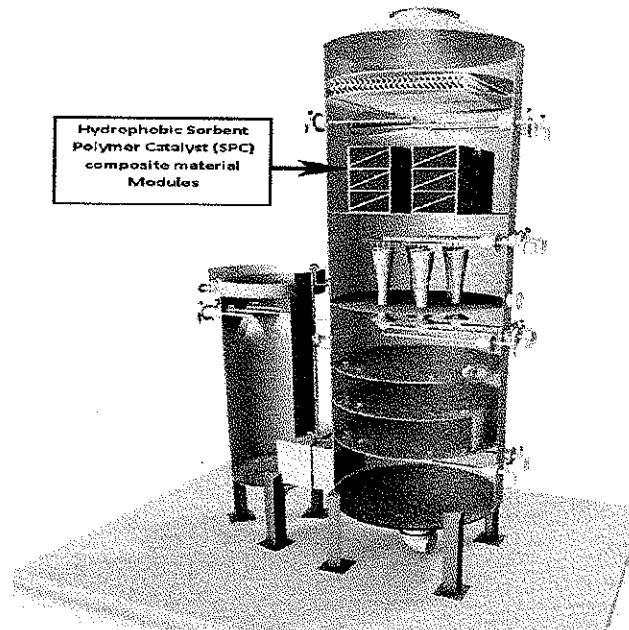


Figure 5: SPC Based FGD System

- Technology is proprietary (USA based) and there are very less installations worldwide and no installation in India.
- Moreover, being patented technology dependency will be there for supply of material on single vendor during operation phase.
- Exposure to foreign currency variation risk due to imported technology.
- Moreover, this technology is used prominently where both mercury emissions along with SO_x emission control is to be done. However, there is no requirement of Mercury control in this project.
- Water requirement for this technology is relatively higher compared to other technologies including wet FGD.
- In view of the foregoing, this technology is not considered for this project.

4.1.6 SELECTION OF SUITABLE TECHNOLOGIES

Selection of FGD technology mainly depends on following factors.

Technical:

Existing SO₂ emission levels, SO₂ removal efficiency required, location of the plant (inland/coastal/access to reagent source), space requirements, process water requirement, wastewater quality/quantity & treatment required, outage requirements, layout feasibility, quality/quantity of waste by-product generated & its disposal/reuse, suitability of technology for Indian conditions.

Description	WFGD	DEGD	Ammonia based FGD	Seawater FGD
Cons	<ul style="list-style-type: none"> • High capital cost • High Auxiliary power consumption • GGH or costly lining required in chimney/ ducts • Difficulty in sourcing of Limestone in the vicinity. • Disposal / handling of generated waste 	<ul style="list-style-type: none"> • High cost of reagent • By-product use is limited • Difficulty in sourcing & handling of Lime 	<ul style="list-style-type: none"> • Very High cost of reagent • High risk of selling by-product • Permission reqd. for ammonia storage 	<ul style="list-style-type: none"> • Limited applicability as applicable only to the plants located nearby sea

The above FGD technologies compared are more relevant, commercially available and proven. Other patented reagent technologies, single party patented technologies and technologies having lower absorption efficiencies are not considered for this project.

Based on the evaluation of above mentioned FGD technologies primarily on the basis of its suitability for the site, its proven track record in the country, fuel flexibility, availability of reputed vendors, reagent cost, SO₂ removal efficiency, saleability / disposal of by-product, safety and hazardous aspects etc, wet limestone based FGD technology would be most optimum and suitable for GVK Power plant. Moreover, to meet any future stringent emission norms the wet limestone FGD can be utilized with minor modifications.

Note: Considering the above-mentioned factors wet scrubbing FGD system is recommended as the optimum technology for GVK Power (Goindwal Sahib) Limited.

4.2 EXPLORING TECHNOLOGIES FOR REDUCING NITROGEN OXIDES (NO_x) EMISSION

NO_x emission control technologies are grouped as combustion modification/control and post combustion process. Combustion controls reduce the level of NO_x emissions by altering or modifying the firing conditions under which combustion is achieved.

4.2.1 LOW NOX BURNERS (LNB)

LNB operate on the principle of fuel and air staging during fuel injection, which results in fuel-lean and fuel-rich combustion zones in the furnace. In the centre or core of the burners, there is fuel rich primary combustion zone, and NO_x formation is restricted by creating low temperature reducing environment deprived of oxygen. The fuel lean zone enveloping the fuel rich zone further reduces NO_x formation as it has low combustion temperature and also helps in complete combustion and prevent CO generation.

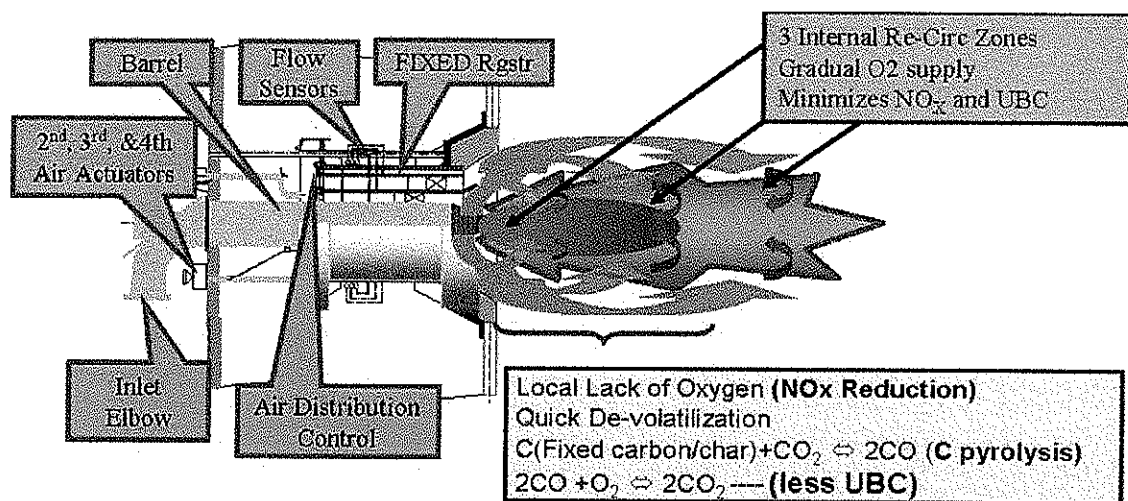


Figure 6: A Typical Low NO_x Burner

The burners presently installed at plant are of latest design of LNB and thus there is no scope of exploring installation of LNB of more improved design to reduce NO_x further.

4.2.2 OVER-FIRE AIR (OFA)

Air flow from the burners is reduced resulting in a fuel rich primary combustion zone to limit the NOx formation by creating low temperature reducing environment. The combustion of the CO produced in the primary combustion zone is completed using the air supplied by the over-fire air ports, called as the OFA. Two types of over-fire air systems can be used to accomplish NOx emission reductions, Close-Coupled Over-Fire Air (OFA) and Close-Coupled Over-Fire Air (OFA) systems. OFA systems are implemented by adding air injectors immediately above the existing furnace burners. And OFA is supplied from the top of the existing wind-box. With OFA, Higher NOx reductions would be achieved by increasing the separation of the over-fire air ports from the primary combustion zone and increasing the air velocity through the ports.

The efficiency of combustion process and CO emissions are often affected by the implementation of combustion controls. In general, combustion controls are the least cost approach for obtaining an initial reduction in the NOx emissions but would have an impact on boiler performance and hence, it is advisable to consult the boiler OEMs.

4.2.3 LOW EXCESS AIR FIRING

This technique, a burner optimization strategy, is used to improve furnace combustion efficiency by supplying low excess air in combustion zone to form oxygen-deficient fuel-rich zone, thus reducing NOx formation in furnace. The objective of this method is to operate the furnace at the lowest excess air level that provides safe, efficient and complete combustion. The effectiveness of the furnace heat transfer surfaces will also be impacted.

Minimizing the excess air, since this reduces the total flue gas flow. This method could be tried on replacement of burners as discussed above provided adequate instrumentation for monitoring the combustion characteristics and control of fuel air to individual burners are available.

4.2.4 SELECTIVE CATALYTIC REDUCTION SYSTEM (SCR)

Aqueous ammonia is injected into hot flue gas between economizer and APH where flue gas temperature is in the range 340–400°C through an injection grid. The flue gas is mixed with reagent and passes through catalyst surface where NOx is converted into N2 and water. The reagent is vaporized by steam/ electric heater/ air in the evaporator/vaporizer, mixed and is carried to the grid injection nozzles by air. Figure-IV.6 illustrates Typical SCR Catalyst reaction.

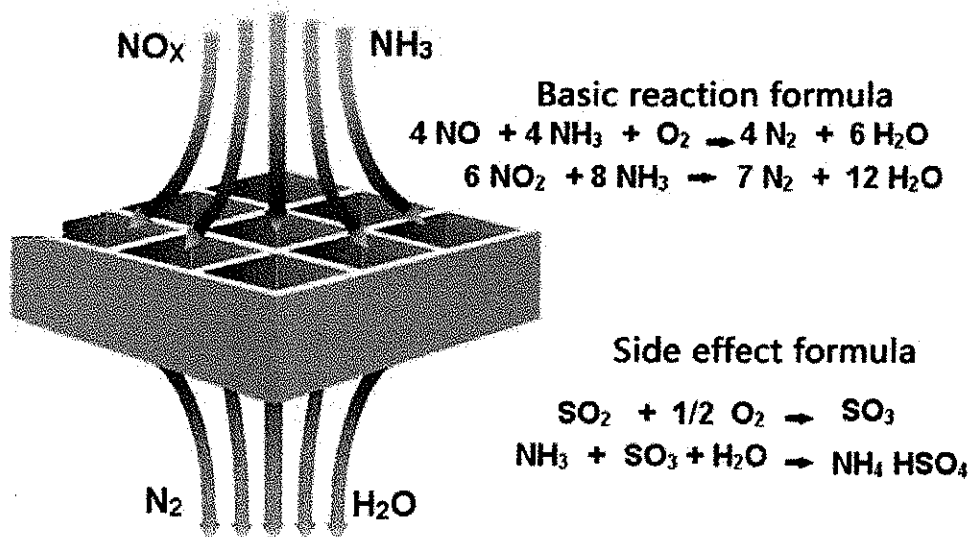


Figure 7: Typical SCR Catalyst Reactions

4.2.5 SELECTIVE NON-CATALYTIC REDUCTION SYSTEM (SNCR)

SNCR is based on the chemical reduction of NO_x molecule into molecular nitrogen (N₂) and water vapour (H₂O). A Nitrogen based reducing agent (reagent) such as ammonia or urea is injected into the post-combustion flue gas. The reduction reaction with NO_x is favoured over other chemical reaction processes at temperatures ranging from 870 Deg.C to 1100 Deg.C. Therefore it is considered a selective chemical process. The reagent is generally injected within the boiler super-heater and re-heater radiant or convective regions where the temperature of flue gas is at the required temperature range. The design of injector and the locations of injection are an important part of SNCR system including the time for carrying the medium to vaporize. The NO_x reduction efficiency varies typically between 40%~75%.

4.2.6 HYBRID SNCR-SCR

The Hybrid SNCR-SCR/ Advanced SCR/ In-duct SCR technology is the modified design of SNCR system along with introduction of in-duct catalyst layer for reaction enhancement. The system is generally comprised of multiple layers of reagent injection in the furnace similar to SNCR system. Post reagent injection, the flue gas then flows to a reactor consisting of usually a single layer of SCR catalyst, situated inside the duct between economizer outlet and APH inlet. Further, reduction of NO_x level occurs due to enhanced chemical reaction in the catalyst bed in the in-duct reactor.

4.2.7 SELECTION OF SUITABLE TECHNOLOGIES

Considering all available data, site conditions, requirement of reduction in NO_x emission quantity and difficulty in retrofitting it can be concluded that one or combination of the following fuel preparation & post combustion NO_x control methods would be implemented after consultation with boiler OEM.

- The optimization of firing systems and the installation of over fire air systems (OFA) are proposed as primary measures on DeNO_x for GVK TPP.
- Considering 390 mg/Nm³ actual NO_x emissions it is expected to lower the emission values to below 300 mg/Nm³ by using primary measures only.
- It might be possible achieving 300 mg/Nm³ just by adjusting the combustion strategy and parameters regarding a low-NO_x combustion process. However, this statement needs some more investigations in form of a boiler test period of around 2-3 weeks.
- OFA means to distribute approx. 15% of fresh air flow into the upper section of boiler chamber. This needs to install an extension of air duct system including flaps into the boiler area.
- The tentative size is approx. 15% of the fresh air flow. Air duct system and motorized flaps have to be sized accordingly.

Presently GVK Power is suggested to carry out Primary NO_x reduction process (combustion optimisation) to meet the new emission norms of MoEF& CC. However, a combustion optimisation expert team need to be deployed for studying existing combustion process and optimising the NO_x levels generated in boilers.

4.3 EXPLORATION TECHNOLOGIES FOR REDUCTION OF WATER CONSUMPTION

Water conservation concepts are classified into two broad concepts as below:

- Recycling and Reuse
- Modification of consumption pattern at individual consumer level

This is further elaborated into different techniques to bring in better water management in power plant.

4.3.1 RECYCLING AND REUSE

Recycle and reuse of waste water would be adopted to minimize the fresh water consumption. In this philosophy, the waste water generated in one system is reused in some other systems/applications wherever such quality of water is permissible to use.

Note: GVK Power is already a zero-liquid discharge plant and complying to the water consumption norms less than 3.5 m³/MWh. However, water requirement for FGD system will increase water quantity which will lead to plant water consumption near to 3.5 m³/MWh.

Listed below is some of the waste water re-use options as shown in below table

Table 11: Options for reuse of waste water

Sl No	Waste water	Characteristics	Possible Treatment Options	Point of Reuse
1.	Cooling tower blow down	Low TSS Moderate TDS based on COC adopted Slightly high temperature	TDS in the water have to be maintained below 2000 ppm to be suitable for irrigation. The blow down have to be treated to reduce the TDS (may be RO) to suitable limits acceptable for lime slurry preparation	Coal dust suppression Irrigation FGD
2.	Back wash water from filtration Unit	High TSS Low TDS	Recycled in plant clarifier	Raw water feed
3.	Floor wash	Moderate TSS Low TDS	Need to be treated in a sludge handling system (sludge clarifier, thickener and dehydrator)	Raw water feed
4.	Oily waste water	Moderate TSS Low TDS Contains oil	To be treated in oily water separator and the clear water can be reused	Gardening



Sl No	Waste water	Characteristics	Possible Treatment Options	Point of Reuse
5.	Sewage	Moderate TSS Low TDS High BOD	To be treated in sewage treatment plant and the clear water can be reused	Gardening

4.3.2 MODIFICATION OF CONSUMPTION PATTERN AT INDIVIDUAL CONSUMER LEVEL

This approach aims at choosing the alternative water efficient technologies at individual consumer level so as to reduce the water consumption by the consumers. Such alternatives of the major individual consumers are briefed here. However, each option would be evaluated for its potential in saving water as against the effort and cost associated in implementing the same.

4.3.3 INCREASING COC OF COOLING TOWER

As stated above increasing the COC gives significant reduction in water intake to the plant. The power plant already employs several reuse techniques include treating the CT blowdown and reusing it, which limits the water consumption to limits as acceptable by the MOEF & CC. Hence, existing scheme need not be altered. However, additional sets of pumps would be installed to supply water for the FGD requirements.



5 PROPOSED SCHEME AND IMPACT ON EXISTING PLANT

Wet Limestone based Flue Gas Desulphurization (FGD) system is one of the suitable alternative to reduce SO_x emission to atmosphere through flue gas for existing 2 X 270 MW Coal Based Thermal Power Plant of GVK Power (Goindwal Sahib) Limited located at Punjab.

Wet Limestone Forced Oxidation based FGD System shall be provided with an independent/dedicated absorber. However, the Wet Limestone based Flue Gas Desulphurisation (FGD) System will essentially include but not be limited to the following subsystem:

- Flue Gas System with Booster Fans, Absorber, Chimney and associated ducting arrangement
- Limestone Unloading, Crushing, Grinding and Slurry makeup system
- Gypsum Dewatering System
- Process Water Storage & Pumping System
- FGD Plant Waste Water Treatment & Reuse System (ZLD)
- Utility systems

5.1 FLUE GAS SYSTEM WITH BOOSTER FANS, ABSORBER, CHIMNEY AND ASSOCIATED DUCTING ARRANGEMENT

5.1.1 FLUE GAS BOOSTER FANS

Two (2) nos. Flue Gas Booster fans shall be provided for existing 2 X 270 MW unit at the downstream of ID fans to compensate the pressure drop across FGD plants and the loss of thermal draft (due to reduction of flue gas temperature in FGD plant) in the chimney. The booster fans shall be capable of fully meeting the pressure drop of the FGD plant and the associated ducting/dampers/fitting under all loading conditions. Booster fan shall provide for sufficient positive pressure at the inlet of the wet chimney so as to facilitate effective discharge of wet flue gases into the atmosphere through the new wet chimney. Booster Fans shall be complete with drive motor, coupling, base plates fixing bolts and nuts. The booster fans shall meet the following requirements:

Capacity of each fan shall correspond to 60% BMCR flow. Over and above value thus calculated, following margins shall also be applied for sizing the fan:

Margin on volume flow rate: 20%

Margin on pressure corresponding to rated flow: 44%

However, the best efficiency point for the fans shall be at unit TMCR. The bidder shall furnish the fan sizing calculations for approval of purchaser during detail engineering.

The flue gas booster fans for the 270 MW unit shall be variable speed, axial flow centrifugal type. The maximum speed of the fans shall be limited to 750 rpm.

5.1.2 ABSORBER SYSTEM

Flue Gas, from existing Induced Draft (ID) fans discharge duct, will lead to the absorber through the Flue Gas Booster Fans.

In the absorber, SO₂ in flue gas will be removed by a spray of limestone recirculating slurry, pumped by Absorber recirculation pumps. In the Absorber, the sulphur oxides (SO₂ and SO₃) in the flue gas react with the limestone slurry forming CaSO₃ and CaSO₄.

Compressed oxidation air will be blown through the slurry in the oxidation tank, to oxidize the Calcium sulfite to Calcium sulfate and thereafter crystallizing to gypsum.

The pH – value in the absorber sump is controlled by the limestone dosing and will be approximately 5.6 - 5.8. The retention time in the absorber sump is kept long enough to form good quality gypsum crystals.

Clean gas from the absorber will be passed through number of stages of mist eliminators before being discharged through Stack.

The system shall be so designed to ensure that SO₂ emissions do not exceed the limit stipulated in the Section-2 of this DPR, irrespective of boiler load and fuel quality.

5.1.3 CHIMNEY AND CHIMNEY LINER

i) Treated flue gas from the absorber shall be discharged through either through the existing chimney flue or through a new wet chimney. In case the gas is to be passed through the existing chimney flue, it shall be suitably lined. The flue duct shall be lined with 51 mm thick Borosilicate glass block OR 2 mm thick Titanium (Grade 2 as per ASME SB265) OR C-276 alloy. Cladding shall be done to achieve the required quality as per ASTM B 898-11. External surface of chimney flue liner projecting over the chimney roof shall be wrapped with 2 mm thick Titanium / C-276 sheet over insulation. The design & construction of steel chimney liners shall be based on the guidelines of EPRI Revised Wet Stack Design guide.

ii) New Wet Chimney

Alternatively, new lined RCC wet chimney shall also be constructed as per MoEF&CC guidelines in close proximity of existing chimney. The design & construction of the chimney liners shall be based on the guidelines of EPRI Revised Wet Stack Design guide.



iii) Wet stack model study

A wet stack study shall be performed for the unit with a wet stack installation where there does not exist an identical or mirror image installation that has already had a wet stack study performed. A wet stack model study shall consist of the following

- a) Condensation calculations.
- b) Minimum 1:12 scale physical flow model for liquid collector design.
- c) Computational flow model for plume downwash analysis.
- d) Physical or computational flow model for CEMS elevation flow performance.

iv) Wet Stack Wind Tunnel Study

A wet stack wind tunnel study shall be performed for the unit with a wet stack installation to avoid any vortex formation around existing chimney in case of construction of new chimney in close proximity.

5.1.4 DUCTING ARRANGEMENT

Additionally, following ducting connection including dampers shall be provided from ID fan discharge duct to Wet FGD plant and connected to the chimney:

- a) Existing ID fan discharge to booster fan suction.
- b) Booster fan discharge duct to Absorber inlet.
- c) Absorber outlet to the new wet stack.
- d) FGD bypass duct/isolating damper to existing chimney.

5.2 LIMESTONE UNLOADING, CRUSHING, GRINDING AND SLURRY MAKEUP SYSTEM

Limestone of (-) 250 mm size will be received at the Power Station by road trucks from nearby mines and stored in a Limestone storage building.

Uncrushed limestone will be dozed to the unloading hoppers and fed to Conveyor through Vibrating Feeders. Conveyors shall discharge limestone to Crusher house. In Crusher House, limestone from shall be fed to Crusher through Rod gate and Rack & Pinion gate. In the Crushers, Limestone will be crushed to (-) 20mm size.

The crushed product shall be fed to Belt feeders which in turn will transfer the product to Bucket Elevators. The Bucket Elevators will discharge to Limestone silos for further preparation and use in the Flue gas desulphurization process.

Two parallel streams shall be completely independent so that maintenance of any equipment will not affect the operation of the other stream.

A common limestone preparation system shall be provided for the unit. Limestone of (-) 20 mm size will be stored in silos. From the silo, limestone will be fed to wet ball mills through a gravimetric feeder and reversible belt conveyor. The ground limestone will be mixed with water, classified and the resultant slurry stored in limestone slurry storage tanks. Thereafter, the slurry will be pumped to the absorber by dedicated limestone slurry pumps. All slurry systems shall be provided with the necessary facilities to allow flushing of the system prior to it being taken out of service

5.3 GYPSUM DEWATERING AND HANDLING SYSTEM

5.3.1 GYPSUM DEWATERING SYSTEM

A common gypsum de-watering system shall be provided for the unit. A portion of recirculating slurry from the absorber will be pumped by dedicated gypsum bleed pumps to a Gypsum Dewatering system consisting of dual streams of primary and secondary dewatering equipment. The recovered water will be recycled back to the absorbers. The Gypsum Dewatering equipment will consist of a primary hydro cyclone and a secondary vacuum belt filter. Washed and dewatered gypsum cake from the dewatering system will be fed above the belt conveyor and transferred to Gypsum storage area. The moisture content in gypsum will be such as to make it saleable in the present market.

5.3.2 GYPSUM HANDLING SYSTEM

Washed and dewatered gypsum cake from the dewatering system will be fed by belt conveyors to the Gypsum storage area. The stored gypsum will be transported by road to the end user.

Two parallel streams shall be provided, which shall be completely independent so that maintenance of any equipment will not affect the operation of the other stream.

5.4 PROCESS WATER STORAGE & PUMPING SYSTEM

Process water requirement for FGD plant will be drawn from Station clarified water system and stored in a Process water tank. Process water pumps will be provided for distribution in the FGD Plant as per system requirement such as mist eliminator washing, gypsum washing, limestone slurry system make-up, flue gas quenching, line flushing, etc.

5.5 FGD PLANT WASTE WATER TREATMENT & REUSE SYSTEM (ZLD)

Waste water from the FGD plant will be collected in FGD Waste water collection tank for further treatment. Tentative waste water quality is envisaged as follows:

Sr. No	Description	Unit	Parameter
1	Total Suspended Solid (TSS)	ppm	10000-20000
2	Chloride as Cl	ppm	15000 (max)
3	Total Dissolved Solids	ppm	35000-40000

The waste water from the system will be treated to achieve zero liquid discharge (ZLD) concept.

The waste water from FGD waste water collection tank will be pumped to primary plate or tube settler by waste water transfer pumps to remove the total suspended solids (TSS). Sludge from the primary plate or tube settler will be collected in sludge collection sump and further pumped to filter press to recover the maximum water from the sludge. Suitable chemicals shall be dosed into the primary plate or tube settler and filter press to enhance the suspended solids removal efficiency. Air blowers shall be provided to agitate the sludge in the sludge collection sump. The wet cake generated from the filter press needs to be disposed suitably by the owner.

Clear water from the primary plate or tube settler will be further routed to a secondary plate or tube settler for further treatment. Secondary plate and tube settler is provided with suitable chemical dosing system to reduce the hardness. The sludge generated by the secondary plate or tube settler will be further treated in filter press to recover maximum water.

Clear water from the secondary plate and tube settler will be collected in clear water collection tank. The clear water with high chloride (around 15000 ppm) from clear water tank will be pumped to thermal evaporator to recover the fresh water. Concentrated water from thermal evaporator will be further treated in dryer. Crystals (Wet) formed in dryer will be disposed by the owner suitably. The recovered water from the dryer will be collected in a fresh water tank and shall be pumped to ETP.

5.6 UTILITY SYSTEM

The various utility services such as service water, demineralized cooling water, compressed air, fire water, etc. required for FGD plant are envisaged to be drawn from the existing services.

6 PLAN & SCHEDULE FOR PROJECT IMPLEMENTATION

Successful execution of the project largely depends on the coordinated approach of the project implementing agencies. Proper co-ordination between the various project execution agencies, monitoring of project schedules, appropriate mobilization of manpower and other resources can achieve effective cost control and timely completion of the project.

The proposed FGD system for GVK Power Thermal Power Plant is expected to be commissioned within 22 months from the date of issue of contract to EPC service provider.

It is envisaged that the proposed project shall be executed on the following basis which would lead to shortest gestation period, obtain firm guarantees on performance and completion schedule.

- 1) Complete Flue Gas Desulphurization system including Electro-mechanical, civil, structural & architectural works, Control & Instrumentation works.
- 2) Miscellaneous Electrical works to supply power up to FGD.
- 3) Chimney works for FGD.
- 4) FGD system is expected to be commissioned within 24 months from the date of NTP.

The proposed FGD system would consist of the following major equipments

1. FGD System

- a) Main Scrubber for each unit along with it's Auxiliaries.
- b) Ductwork, Dampers along with supporting structure.
- c) Chimney
- d) Limestone unloading & handling System.
- e) Limestone Slurry preparation system including Milling system for Limestone.

Gypsum handling system

- e) Control & Instrumentation system
- f) Illumination & Inter communication System

2. Civil construction, mechanical and electrical erection services.

The entire FGD project would be monitored by Owner's Engineer / Engineering Consultant for appropriate engineering interface with different systems of the project.

6.1 PROJECT MANAGEMENT

It is envisaged that an experienced and well-equipped project management group shall be deployed for overview and steer the project through from inception to commissioning. The team would co-ordinate and controls all the following basic activities:-

- i. Interfacing with O&M team, different organizations entrusted with engineering, supply and erection activities.
- ii. Procurement activities covering control and monitoring of preparation of specification, tender evaluation, negotiation, ordering, vendor drawing review etc.
- iii. Material Management & Quality Assurance.
- iv. Supervision of construction and erection activities.
- v. Preparation of Progress Reports & updating project schedule.
- vi. Certification of Performance Testing and acceptance in association with Consultant.

A site office will be established which will take up supervision and construction management during the construction stage.

Basic engineering for the equipment/systems may be carried out by an Engineering Consultants to be appointed by the Project owner. The construction, erection and commissioning of the entire FGD upgradation project will be included in the package specification. Supervisory field support would be provided by representatives from the Consultants as considered necessary. It is envisaged that involvement of the Consultant's from the early phase of the project can enhance the engineering progress and site construction smoothly.

6.2 PROJECT MONITORING, CO-ORDINATION & CONTROL

6.2.1 PROJECT MONITORING INFORMATION SYSTEM

Progress of each activity at every stage would be physically monitored by respective supervising engineers. All detailed information would be passed on to the Central Monitoring Cell to keep track of the work progress. The detailed PERT / CPM network for the project would be monitored on monthly / fortnightly basis to compare with scheduled progress Vs actual progress achieved at site.



6.2.2 CO-ORDINATION

Regular meetings would be held at site among the representatives of the Contractors, the Consultants and the Engineers of Projects Department to review the progress of each activity. At these meetings, slippages in progress would be identified and corrective measures shall be taken. The problems arising out of site and material constraints would be promptly sorted out. The meetings would also be attended to by one of the senior executives of the company to facilitate on-the-spot decision. Minutes of meetings would be circulated among all concerned for necessary follow-up action.

Co-ordination meetings between the Consultants and the senior executives of the Project Authority would be held regularly for major decisions in regard to planning, designing of various plant and equipment, execution procedures, manpower deputations, industrial relations, security, etc. Steps would be taken to ensure regular interactions between the Contractor, the Consultants and Projects Department. Experienced site engineers will be working under the site manager at the site office. The computer system set-up will allow close coordination with the home offices, which will also be used for back-up and to solve any upcoming design issue. Owner will organize and supervise construction work on site. Site activities of the subcontractors' site teams will be coordinated by owner to ensure that working areas are clearly assigned and safe. Special emphasis will be put on the proper coordination of interfaces between different packages to ensure, that erection and commissioning work runs continuously and smoothly.

6.2.3 REPORTING

Various reports would be generated in regard to the physical and financial progress of the project on monthly, quarterly and yearly basis for internal use & if required for forwarding to the various Government Departments, Financial Institutions. Daily progress of the major items of work, along with their weekly/ monthly targets, would be reported to the project head. The progress measurement system and weighting according to various activities will be mutually decided and agreed based on the Consultant's proposal.

6.2.4 FINANCIAL CONTROL

Actual cost records would be regularly monitored against forecasts, which would be forwarded to Finance Department by the Projects Department on monthly, half-yearly and yearly basis, depending on the actual progress of delivery and erection/construction. Fund requirements would be assessed and arranged accordingly.

6.3 CONSTRUCTION FACILITIES

The proposed FGD project will be located within the existing plant premises of GVK Thermal Power Plant, adequate construction facilities will therefore, be available for timely implementation of the project.

Adequate space is available for offices, covered and open storages, fabrication and pre-assembly yard, etc., required during construction period.

6.3.1 CONSTRUCTION OF ROADS

An access road of heavy duty class emanating state highway constructed during power plant implementation stage will facilitate the movement of materials and equipment during construction / erection of FGD project.

6.3.2 CONSTRUCTION BUILDINGS

Existing O&M service building shall be used by the owner's construction team for setting up it's office. Housing for owner's construction staff shall be provided in the existing housing colony of the plant. Contractor shall set up it's office in portable Porta Cabin. Contractor shall arrange temporary barracks/housing near the plant area for the Contractors' workmen during the period of construction work.

6.3.3 CONSTRUCTION WATER

Construction water for the FGD project shall be provided from the existing water distribution network of the Plant.

6.3.4 CONSTRUCTION POWER

The construction power required for the FGD project shall be provided from existing power distribution network of the plant. The construction power requirement will be around 1.5 MVA.

6.3.5 CONSTRUCTION EQUIPMENT'S

A number of construction equipment, namely Bull-dozers, Crawlers and Tyre-mounted cranes, tractors-trailers, road tankers, winches, lighting-tackle, etc. are proposed to be utilized by the project authorities.

Though, the major construction equipment is presumed to be brought by the Contractors, the above essential equipment are proposed to be procured in the interest of the project and these may be rented out to deserving Contractors as found necessary.

Road weigh-bridge as installed during main power plant construction phase will be utilized for FGD project construction.



6.3.6 CONSTRUCTION MATERIAL

Stone Aggregates

There are quite a few stone deposits in the surrounding areas. The aggregates would be transported by road trucks.

Sand

Coarse to medium sand is available from the river beds in the nearby area and may be transported by road.

Bricks

There are brick manufacturing agencies in the nearby areas and hence no difficulty is envisaged in getting sufficient quantity of bricks required for the project.

6.3.7 MANPOWER

Semi-skilled and unskilled workmen are expected to be available from local population in these areas to meet the manpower requirement during construction and erection of FGD project. Proper manpower planning by both the contractors and project authority need prime attention well in advance to ensure smooth and timely execution of the project.

The project headed by an executive of suitable rank will look after the overall activities in compliance with the project schedule. He will be assisted by a team of experienced managers and engineers in different disciplines including technical, administration, staff welfare, finance, safety and security, material management, traffic and legal affairs.



7 PRELIMINARY FIRST ORDER COST ESTIMATES

The cost of recent Wet Limestone based FGD plants using Coal as fuel varies between Rs. 0.3 Cr/MW to Rs. 0.56 Cr/MW. However, the Sulphur content of Coal is around 0.6% to 0.93%, with a worst calorific value of 5158 kCal/kg.

Basis of Project Cost Economics

- ✓ The cost estimate presented is preliminary in nature. The project cost estimate has been presented on the basis of prevailing prices, in house data, previous project experiences, budgetary quotations and market information and can change as per cost offers to be received by GVK Power during the tendering process.
- ✓ Technical parameters considered in the cost estimation are furnished in the below tables
- ✓ The CAPEX cost estimates, Revenue loss due to plant shut down and OPEX are shown below:



7.1 ESTIMATED CAPITAL EXPENDITURE (CAPEX) FOR WET LIMESTONE FGD INSTALLATION (2X270) OF GVK POWER

Table 12: Estimated Capital Expenditure (CAPEX) for Wet Limestone FGD

Estimated Capital Expenditure (CAPEX) for Wet Limestone FGD installation in all Two units of GVK Power					
Sl.N o.	CAPEX ITEM	Base Cost	Transportati on & Insurance Cost @ 6% of Base Cost	Taxes & Duties @ 18% of Base Cost	Total Cost including Taxes & Transportati on and Insurance
FGD- Capital Expenditure (CAPEX)		Rs. Lakhs	Rs. Lakhs	Rs. Lakhs	Rs. Lakhs
1	FGD system including Limestone unloading storage, conveying system and Gypsum handling and storage system	18692	1121.52	3364.56	23178.08
2	Electrical system cost associated with FGD	1538	92.28	276.84	1907.12
3	Chimney & duct lining cost for Two units of GVK Power	3231	193.86	581.58	4006.44
4	Pile Foundation	572	34.32	102.96	709.28
5	Clarifier for Pre Treated Water for FGD	300	18	54	372
6	Waste water treatment plant	192	11.52	34.56	238.08
7	Spares @ 3% on Items 1, 2, 3 & 4	710	42.6	127.8	880.4
8	Pre Operating Expenses	900		162	1062
9	Water & Electricity	500		90	590
10	Start up and Trial Run	1000		180	1180
11	Total Cost of FGD works	27635	1514.1	4974.3	34123.4
12	Financing Charges	200		36	236
13	Interest During Construction@ 14% on 75% Rs. 35815.5 lakhs .i.e.26900	4858			4858
14	Total Cost of FGD works including IDC	32693	1514.1	5010.3	39217.4

Estimated Capital Expenditure (CAPEX) for Wet Limestone FGD installation in all Two units of GVK Power					
Sl No.	CAPEX ITEM	Base Cost	Transportation & Insurance Cost @ 6% of Base Cost	Taxes & Duties @ 18% of Base Cost	Total Cost including Taxes & Transportation and Insurance
FGD Capital Expenditure (CAPEX)		Rs. Lakhs	Rs. Lakhs	Rs. Lakhs	Rs. Lakhs
15	Contingency @ 5% on item 13	1634.65	75.705	250.515	1960.87
16	Project Management & Engineering cost @ 3% on item no 13	980.79	NA	NA	980.79
17	Total Cost of FGD including Contingency, Engineering & Project Management	35308.44	1589.805	5260.815	42159.06
FGD COST PER MW IN Rs. CRORES/MW		0.65	0.03	0.10	0.78

7.2 LOSS OF REVENUE DUE TO UNIT SHUTDOWN (2X270 MW) REQUIRED FOR RETROFIT OF GVK POWER

Table 13: Loss of Revenue Due to Unit Shutdown Required for Retrofit

Loss of Revenue Due to Unit Shutdown Required for Retrofit			
SL. No.	DESCRIPTION	UNIT	VALUE
1	Shutdown duration	Days	60
2	Capacity Charge considered for revenue loss	Rs. /kWh	2.80
3	Loss of plant Availability due to unit shutdown	Million Units	611
4	Capacity charge loss due to plant shutdown	Rs. Lakhs	17122
5	Startup cost of plant post FGD retrofit	Rs. Lakhs	210
6	Total Loss of Revenue due to Plant Shutdown	Rs. Lakhs	17332

7.3 ESTIMATED OPERATING EXPENDITURE (OPEX) FOR WET LIMESTONE FGD INSTALLATION (2X270) OF GVK POWER
Table 14: Estimated Operating Expenditure (OPEX) for Wet Limestone FGD

Estimated Operating Expenditure (OPEX) for Wet Limestone FGD installation in all Two Units of GVK Power			
SL. No.	DESCRIPTION	UNIT	Values
FGD- OPEX ESTIMATE			
1	Cost of Reagent		
a	Total Landed Cost Inclusive of Taxes	Rs/MT	2500
b	Reagent Requirement for four units	MT/h	6.6
c	FGD Operating Hours @ 85 % PLF	h	7446
d	Total Reagent Consumption	Tonnes/year	49144
e	Cost of Reagent per Annum	Rs Lakhs/Year	1229
2	Cost of additional auxiliary power consumption for FGD		
a	Auxiliary power consumption required @1%	KW	5400
b	Annual power consumption required @ 85% PLF	Units consumed	40208400
c	Cost of power	Rs/unit	7
d	Additional power consumption cost per annum	Rs Lakhs/Year	2815
3	Cost of additional clarified water		
a	Additional Clarified water required	m ³ /h	200
b	Clarified water consumption per annum	m ³ /Year	1489200
c	Clarified water rate	Rs./m ³	0.78
d	Additional Clarified water consumption cost per annum	Rs. Lakhs/Year	12
4	Cost of additional operating cost of waste water treatment plant		
a	Quantity of Waste water discharged	m ³ /h	20
b	Annual waste water discharged	m ³ /Year	148920



Annexure 7 (2 of 2)_Feasibility Report_FGD

Feasibility Report – 2 X270 MW

M/s GVK Power (Goindwal Sahib) Limited

Estimated Operating Expenditure (OPEX) for Wet Limestone FGD installation in all Two Units of GVK Power			
SL. No.	DESCRIPTION	UNIT	Values
FGD- OPEX ESTIMATE			
c	waste water treatment cost	Rs./m ³	60
d	Cost of waste water Treatment per annum	Rs. Lakhs/Year	89
5	Additional Maintenance & Manpower Cost due to FGD		
a	O & M Cost	Lakhs/MW/Year	1.26
b	Additional O&M cost per Annum	Rs. Lakhs/Year	680
6	Gypsum disposal costs		
a	Gypsum Generation	TPH	12
d	Gypsum unloading cost	Rs./MT	125
c	Annual Gypsum unloading cost	Rs. Lakhs/Year	108
7	Total Annual Operating Cost (OPEX)	Rs. Lakhs/Year	4931
8	Annual Insurance cost		
a	Insured value of FGD	Rs. Lakhs/Year	33987
b	Insurance cost @ 0.07% premium	Rs. Lakhs/Year	24
9	Additional Working Capital Interest cost		
a	Working capital interest cost at 12.00% for one month	Rs. Lakhs/Year	49
10	TOTAL Annual OPEX Including Working Capital Interest cost and Insurance Cost	Rs. Lakhs/Year	5004
11	FGD-CAPITALISED OPEX PER MW	Rs.Crores/MW	0.09
12	TOTAL OPEX CAPATILISED @ 11% discounting factor & annual escalation of 5% for 15 years' plant life	Rs. Lakhs	49525
FGD-CAPITALISED OPEX PER MW		Rs.Crores/MW	0.92



7.4 ESTIMATED TOTAL COST PER MW (CAPEX+OPEX) FOR INSTALLATION/RETROFIT OF WET LIMESTONE FGD (SUMMARY)

Table 15: ESTIMATED Total Cost per MW (CAPEX+OPEX) for Installation/Retrofit of Wet Limestone FGD

ESTIMATED Total Cost per MW (CAPEX+OPEX) for Installation/Retrofit of Wet Limestone FGD			
Sl.No.	Particulars	Units	Values
1	FGD system CAPEX per MW	Rs. Crores / MW	0.78
5	FGD-Capitalized OPEX of per MW per Annum	Rs. Crores / MW	0.09
TOTAL CAPEX and CAPITALISED OPEX AND CAPEX per MW		Rs. Crores / MW	0.87

The following costs, taxes & duties have been excluded for above Capital cost estimation:

- I. *Incidental Expenditure During Construction (IEDC)*
- II. *Margin money for working capital*
- III. *Exchange rate variation and cost of hedging*
- IV. *Impacts due to price variation of various commodities.*
- V. *Cost of OEM services regarding interconnection with existing facilities*
- VI. *Escalation on the Secondary Fuel Oil Costs and Start Up Power*
- VII. *Return on Equity (ROE)*
- VIII. *Land acquisition cost for gypsum disposal dyke*



7.5 ADDITIONAL DEEP PILING FOUNDATION REQUIREMENT FOR MOST OF THE EQUIPMENT

GVK Power is having very poor Soil condition & High ground water table and existence of uniform granular size sand with liquefaction effect results heavier Pile foundations to most of the equipment of FGD (Soil report attached). During main plant design and construction cast in-situ bored piles were adopted, for most of the equipment. The size of the piles varying from 750 mm to 450 mm diameter with a length of 26 m.

The preliminary estimate for project of 2 X 270 MW is around 500 number of piles (for FGD unit ~ 500 piles are required), the estimated cost for these 500 piles foundations is Rs. 5.72 Cr. This number may go higher side during details engineering. (Refer to the Soil Investigation Report attached in annexure).

Table 16: Additional Piling Requirement

Capacity	No of Pile	Dia of Pile (mm)	Length (M)	Total Pile Length (M)	Cost per Metre	Cost for Piling
60T	500	600	26	13000	4000	52,000,000
					Overhead@10%	5,200,000
					Total Cost	57,200,000

Note: Cost has already been considered under capex.



8 ANNEXURE

8.1 MOEF AND CC NOTIFICATION FOR THERMAL POWER PLANTS

Annexure 7 (2 of 2)_Feasibility Report_FGD

रजिस्ट्री सं० डी० एल०-33004/99

REGD. NO. D. L.-33004/99



भारत का राजपत्र

The Gazette of India

असाधारण

EXTRAORDINARY

भाग II—खण्ड 3—उप-खण्ड (ii)

PART II—Section 3—Sub-section (ii)

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पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय

अधिसूचना

नई दिल्ली, 7 दिसम्बर, 2015

का.आ. 3305(अ).—केंद्रीय सरकार, पर्यावरण (संरक्षण) अधिनियम, 1986 (1986 का 29) की धारा 6 और धारा 25 द्वारा प्रदत्त शक्तियों का प्रयोग करते हुए पर्यावरण (संरक्षण) नियम, 1986 का और संशोधन करने के लिए निम्नलिखित नियम बनाती है, अर्थात् :—

1.(1) इन नियमों का संक्षिप्त नाम पर्यावरण (संरक्षण) संशोधन नियम, 2015 है।

(2) ये उनके राजपत्र में प्रकाशन की तारीख को प्रवृत्त होंगे।

2. पर्यावरण (संरक्षण) नियम, 1986 की अनुसूची 1 में,—

(क) क्रम सं. 5 और उससे संबंधित प्रविष्टियों के स्थान पर निम्नलिखित क्रम सं. और प्रविष्टियां अंतःस्थापित की जाएंगी, अर्थात् :—

क्रम सं.	उद्योग	मापदंड	मानक
1	2	3	4
5क	ताप विद्युत संयंत्र (जल उपभोग सीमा)	जल उपभोग	I. एक बार शीतलन (ओटीसी) के माध्यम से सभी संयंत्र शीतलन टावरों (सीटी) को प्रतिष्ठापित करेंगे और अधिसूचना की तारीख से दो वर्ष की अवधि के भीतर अधिकतम 3.5m ³ /MWh के विनिर्दिष्ट जल उपभोग को हासिल करेंगे।

			<p>ii. सभी विद्यमान सीटी-आधारित संयंत्र 3.5m³/MWh इस अधिसूचना के प्रकाशन की तारीख से दो वर्ष के भीतर अधिकतम 3.5m³/MWh तक के विनिर्दिष्ट जल उपभोग को कम करेंगे।</p> <p>iii. जनवरी, 2017 के पश्चात् प्रतिष्ठापित किए जाने वाले नए संयंत्र अधिकतम 2.5 m³/MWh तक के विनिर्दिष्ट जल उपभोग को पूरा करेंगे और शून्य जल दुर्व्यय को हासिल करेंगे।</p>
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(ख) क्रम सं. 25 और उससे संबंधित प्रविष्टियों के पश्चात् निम्नलिखित क्रम सं. और प्रविष्टियां रखी जाएंगी, अर्थात् :—

क्रम सं.	उद्योग	सापदंड	मानक
1	2	3	4
		विवक्त पदार्थ	100 mg/Nm ³
		सल्फर डायोक्साइड (SO ₂)	600 mg/Nm ³ (500 मेगावाट से कम क्षमता की इकाईयों से लघु इकाईयां) 200 mg/Nm ³ (500 मेगावाट और उससे अधिक क्षमता की इकाईयां).
		नाइट्रोजन के आक्साइड (NOx)	300 mg/Nm ³
		पारा (Hg)	0.03 mg/Nm ³ (500 मेगावाट और उससे अधिक क्षमता की इकाईयां).
		1 जनवरी, 2003 के पश्चात् 31 दिसंबर, 2016* तक प्रतिष्ठापित टीपीपी (इकाईयां).	
		विवक्त पदार्थ	50 mg/Nm ³
		सल्फर डायोक्साइड (SO ₂)	600 mg/Nm ³ (500 मेगावाट से कम क्षमता की इकाईयों से लघु इकाईयां) 200 mg/Nm ³ (500 मेगावाट और उससे अधिक क्षमता की इकाईयां).
		नाइट्रोजन के आक्साइड (NOx)	300 mg/Nm ³
		पारा (Hg)	0.03 mg/Nm ³
		1 जनवरी, 2017** से प्रतिष्ठापित टीपीपी (इकाईयां).	
		विवक्त पदार्थ	30 mg/Nm ³
		सल्फर डायोक्साइड (SO ₂)	100 mg/Nm ³
		नाइट्रोजन के आक्साइड	100 mg/Nm ³

	(NOx)	
	पारा (Hg)	0.03 mg/Nm ³ .

* टीपीपी (इकाईयां) इस अधिसूचना के प्रकाशन की तारीख से दो वर्ष के भीतर परिसीमाओं को पूरा करेंगी।

** इसके अंतर्गत सभी टीपीपी (इकाईयां) हैं, जिन्हें पर्यावरणीय निकासी प्रदान की गई है और संनिर्माण के अधीन है।

[फा. सं. क्यू-15017/40/2007-सीपीडब्ल्यू]

डा. राशिद हसन, सलाहकार

टिप्पण :- मूल नियम भारत के राजपत्र, असाधारण, भाग II, खंड 3, उपखंड (ii) में सं. का.आ. 844(अ) 19 नवंबर, 1986 द्वारा प्रकाशित किए गए थे और उनका पश्चातवर्ती का.आ. 433(अ) तारीख 18 अप्रैल, 1987 ; सा.का.नि. 176(अ) तारीख 2 अप्रैल, 1996; सा.का.नि. 97 (अ), तारीख 18 फरवरी, 2009 ; सा.का.नि. 149(अ) तारीख 4 मार्च, 2009 ; सा.का.नि. 543(अ) तारीख 22 जुलाई, 2009 ; सा.का.नि. 739(अ) तारीख 9 सितम्बर, 2010 ; सा.का.नि. 809(अ) तारीख 4 अक्टूबर, 2010, सा.का.नि. 215(अ) तारीख 15 मार्च, 2011 ; सा.का.नि. 221(अ) तारीख 18 मार्च, 2011 ; सा.का.नि. 354(अ) तारीख 2 मई, 2011 ; सा.का.नि. 424(अ) तारीख 1 जून, 2011 ; सा.का.नि. 446(अ) तारीख 13 जून, 2011 ; सा.का.नि. 152(अ) तारीख 16 मार्च, 2012 ; सा.का.नि. 266(अ) तारीख 30 मार्च, 2012 ; सा.का.नि. 277(अ) तारीख 31 मार्च, 2012; सा.का.नि. 820(अ) तारीख 9 नवम्बर, 2012 ; सा.का.नि. 176(अ) तारीख 18 मार्च, 2013 ; सा.का.नि. 535(अ) तारीख 7 अगस्त, 2013 ; सा.का.नि. 771(अ) तारीख 11 दिसम्बर, 2013 ; सा.का.नि. 2(अ) तारीख 2 जनवरी, 2014 ; सा.का.नि. 229(अ) तारीख 28 मार्च, 2014 ; सा.का.नि. 232(अ) तारीख 31 मार्च, 2014 ; सा.का.नि. 325(अ) तारीख 7 मई, 2014, सा.का.नि. 612(अ) तारीख 25 अगस्त, 2014 और अन्तिम संशोधन सा.का.नि. 789(अ) तारीख 11 नवम्बर, 2014 किया गया था।

MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE

NOTIFICATION

New Delhi, the 7th December, 2015

S.O. 3305(E).— In exercise of the powers conferred by sections 6 and 25 of the Environment (Protection) Act, 1986 (29 of 1986), the Central Government hereby makes the following rules further to amend the Environment (Protection) Rules, 1986, namely:—

1. (1) These rules may be called the Environment (Protection) Amendment Rules, 2015.

(2) They shall come into force on the date of their publication in the Official Gazette.

2. In the Environment (Protection) Rules, 1986, in Schedule – I, -

(a) after serial number 5 and entries relating thereto, the following serial number and entries shall be inserted, namely:—

Sr. No.	Industry	Parameter	Standards
1	2	3	4
"5A.	Thermal Power Plant (Water consumption limit)	Water consumption	I. All plants with Once Through Cooling (OTC) shall install Cooling Tower (CT) and achieve specific water consumption upto maximum of 3.5m ³ /MWh within a period

			<p>of two years from the date of publication of this notification.</p> <p>II. All existing CT-based plants reduce specific water consumption upto maximum of 3.5m³/MWh within a period of two years from the date of publication of this notification.</p> <p>III. New plants to be installed after 1st January, 2017 shall have to meet specific water consumption upto maximum of 2.5 m³/MWh and achieve zero waste water discharged”;</p>
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(b) for serial number 25, and the entries related thereto, the following serial number and entries shall be substituted, namely:-

Sr. No.	Industry	Parameter	Standards
1	2	3	4
"25.	Thermal Power Plant	TPPs (units) installed before 31st December, 2003*	
		Particulate Matter	100 mg/Nm ³
		Sulphur Dioxide (SO ₂)	600 mg/Nm ³ (Units Smaller than 500MW capacity units) 200 mg/Nm ³ (for units having capacity of 500MW and above)
		Oxides of Nitrogen (NOx)	600 mg/Nm ³
		Mercury (Hg)	0.03 mg/Nm ³ (for units having capacity of 500MW and above)
		TPPs (units) installed after 1st January,2003, upto 31st December, 2016*	
		Particulate Matter	50 mg/Nm ³
		Sulphur Dioxide (SO ₂)	600 mg/Nm ³ (Units Smaller than 500MW capacity units) 200 mg/Nm ³ (for units having capacity of 500MW and above)
		Oxides of Nitrogen (NOx)	300 mg/Nm ³
		Mercury (Hg)	0.03 mg/Nm ³
		TPPs (units) to be installed from 1st January, 2017**	
		Particulate Matter	30 mg/Nm ³
		Sulphur Dioxide (SO ₂)	100 mg/Nm ³
		Oxides of Nitrogen (NOx)	100 mg/Nm ³
		Mercury (Hg)	0.03 mg/Nm ³

*TPPs (units) shall meet the limits within two years from date of publication of this notification.

**Includes all the TPPs (units) which have been accorded environmental clearance and are under construction”.

[F. No. Q-15017/40/2007-CPW]

Dr. RASHID HASAN, Advisor

Note: - The principal rules were published in the Gazette of India, Extraordinary, Part II, Section 3, Sub-section (i) *vide* number S.O. 844(E), dated the 19th November, 1986 and subsequently amended *vide* the following notifications:—

S.O. 433(E), dated 18th April 1987; G.S.R. 176(E) dated 2nd April, 1996; G.S.R. 97(F), dated the 18th February, 2009; G.S.R. 149(E), dated the 4th March, 2009; G.S.R. 543(E), dated 22nd July, 2009; G.S.R. 739(E), dated the 9th September, 2010; G.S.R. 809(E), dated, the 4th October, 2010; G.S.R. 215(E), dated the 15th March, 2011; G.S.R. 221(E), dated the 18th March, 2011; G.S.R. 354(E), dated the 2nd May, 2011; G.S.R. 424(E), dated the 1st June, 2011; G.S.R. 446(E), dated the 13th June, 2011; G.S.R. 152(E), dated the 16th March, 2012; G.S.R. 266(E), dated the 30th March, 2012; and G.S.R. 277(E), dated the 31st March, 2012; and G.S.R. 820(E), dated the 9th November, 2012; G.S.R. 176(E), dated the 18th March, 2013; G.S.R. 535(E), dated the 7th August, 2013; G.S.R. 771(E), dated the 11th December, 2013; G.S.R. 2(E), dated the 2nd January, 2014; G.S.R. 229(E), dated the 28th March, 2014; G.S.R. 232(E), dated the 31st March, 2014; G.S.R. 325(E), dated the 07th May, 2014, G.S.R. 612(E), dated the 25th August, 2014 and lastly amended *vide* notification G.S.R. 789(E), dated 11th November, 2014.

Annexure 7 (2 of 2)_Feasibility Report_FGD

रजिस्ट्री सं० डी० एल०-33004/99

REGD. NO. D. L.-33004/99



भारत का राजपत्र

The Gazette of India

असाधारण

EXTRAORDINARY

भाग II—खण्ड 3—उप-खण्ड (i)

PART II—Section 3—Sub-section (i)

प्राधिकार से प्रकाशित

PUBLISHED BY AUTHORITY

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नई दिल्ली, शुक्रवार, जून 29, 2018/आषाढ़ 8, 1940

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NEW DELHI, FRIDAY, JUNE 29, 2018/ASHADHA 8, 1940

पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय

अधिसूचना

नई दिल्ली, 28 जून, 2018

सा.का.नि. 593 (अ).— भारत के राजपत्र, असाधारण में भारत सरकार, पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय की दिनांक 16 अक्टूबर, 2017 की अधिसूचना संख्या सा.का.नि. 3337 (अ) के द्वारा एक प्रारूप अधिसूचना प्रकाशित की गई थी जिसमें उन सभी व्यक्तियों, जिनके उससे प्रभावित होने की संभावना थी, से उस तारीख से जिसकी उक्त अधिसूचना की राजपत्र की प्रतियां जन-साधारण को उपलब्ध कराई गई थीं, साठ दिन की अवधि के भीतर आपत्तियां और सुझाव मांगे गए थे।

और, राजपत्र की प्रतियां दिनांक 16 अक्टूबर, 2017 को जन-साधारण को उपलब्ध कराई गई थीं।

और, केंद्र सरकार द्वारा इस प्रारूप अधिसूचना के प्रत्युत्तर में सभी व्यक्तियों और पक्षों से प्राप्त सभी आपत्तियों और सुझावों पर विधिवत् रूप से विचार किया गया है।

अतः अब, पर्यावरण (संरक्षण) नियम, 1986 के नियम (5) के उप नियम (3) के साथ पठित पर्यावरण (संरक्षण) अधिनियम, 1986 (1986 का 29) की धारा 6 और 25 द्वारा प्रदत्त शक्तियों का प्रयोग करते हुए, केंद्र सरकार, एतद्वारा पर्यावरण (संरक्षण) नियम, 1986 में और संशोधन करने के लिए निम्नलिखित संशोधन करती है, अर्थात्:—

1. (1) इन नियमों का संक्षिप्त नाम पर्यावरण (संरक्षण) संशोधन नियम, 2018 है।

(2) ये राजपत्र में प्रकाशन की तारीख को प्रवृत्त होंगे।

2. पर्यावरण (संरक्षण) नियम, 1986 की अनुसूची 1 में,—

(क) स्तंभ 4 में क्रम संख्या 5क के सामने, मदा 3 के स्थान पर निम्नलिखित मदा रखी जाएगी, अर्थात्:—

“III. विनिर्दिष्ट जल उपभोग, तारीख 1 जनवरी, 2017 के पश्चात् संस्थापित किए गए नए संयंत्र के लिए 3.0 मी³/एमडब्ल्यूएच से अधिकतम नहीं होगा और ये संयंत्र शून्य अपशिष्ट जल बहाव को हासिल करेंगे।”

(ख) क्रम संख्या 5 क और उससे संबंधित प्रविष्टियों के पश्चात् निम्नलिखित क्रम संख्या और प्रविष्टियों को अंतःस्थापित किया जाएगा, अर्थात्:-

क्रम सं	उद्योग	पैरामीटर	मानक
1	2	3	4
"5ख	तापीय विद्युत संयंत्र (जल उपभोग सीमा समुद्री जल का प्रयोग)	जल उपभोग	उपरोक्त क्रम सं 5क में स्तंभ 4 में मद 1 से III समुद्री जल का प्रयोग करते वाले तापीय विद्युत संयंत्र पर लागू नहीं होगा";

(ग) क्रम सं 25 में, निम्नलिखित टिप्पण अंतःस्थापित किया जाएगा, अर्थात्:-

"टिप्पण : सल्फर डाइआक्साइड, नाइट्रोजन और धूल-कण के लिए सभी मानीटर किए गए मान को शुष्क आधार पर 6% आक्सीजन के लिए संशोधित किया जाएगा";

(घ) क्रम सं 33 और उससे संबंधित प्रविष्टियों के पश्चात् निम्नलिखित क्रम संख्या और प्रविष्टियों को अंतःस्थापित किया जाएगा:-

क्रम सं	उद्योग	पैरामीटर	मानक
1	2	3	4
"33क	आर्द्र-फ्लू गैस डीसल्फयुराईजेशन (एफजीडी) के साथ तापीय विद्युत संयंत्र	चिमनी की ऊंचाई/मीटर में सीमा	विद्युत उत्पादन क्षमता: 100 मेगावाट और अधिक एच= 6.902 (क्यू x 0.277) ^{0.555} अथवा 100 मीटर न्यूनतम 100 मेगावाट से कम एच= 6.902 (क्यू x 0.277) ^{0.555} अथवा 30 मीटर जो भी अधिक हो"; क्यू=सल्फर डाइआक्साइड की कि.ग्रा./उत्सर्जन दर एच= मीटर में शैतिक स्टाक ऊंचाई" "चिमनी से जुड़ी सभी यूनिटों का योग टिप्पणी : ये मानक कोयला/लिग्नाइट आधारित तापीय विद्युत संयंत्रों पर लागू होंगे।

[फा. सं. क्यू-15017/40/2007-सीपीडब्ल्यू]

डॉ. ए. सैथिल वेल, वैज्ञानिक 'जी'

टिप्पण : मूल नियम के राजपत्र असाधारण, भाग II, खंड 3, उपखंड (i) का.आ. 844 (अ) तारीख 19 नवम्बर, 1986 द्वारा प्रकाशित किया गया था और पिछली बार अधिसूचना सा.का.नि. 568 (अ) दिनांक 18 जून, 2018 के द्वारा संशोधित किया गया।

Annexure 7 (2 of 2) Feasibility Report_FGD

[भाग II-खण्ड 3(i)]

भारत का राजपत्र : असाधारण

3

MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE

NOTIFICATION

New Delhi, the 28th June, 2018

G.S.R. 593 (E).—Whereas, a draft notification, for Thermal Power Plants was published in the Gazette of India, Extraordinary, vide notification of the Government of India in the erstwhile Ministry of Environment, Forest and Climate Change number G.S.R. 3337(E), dated the 16th October, 2017, inviting objections and suggestions from all persons likely to be affected thereby within a period of sixty days from the dated on which copies of the Gazette containing the said notification were made available to the public;

And Whereas, copies of the Gazette were made available to the public on the 16th October, 2017;

And Whereas, all objections and suggestions received from all persons and stakeholders in response to the draft notification have been duly considered by the Central Government;

Now, therefore, in exercise of the powers conferred by sections 6 and 25 of the Environment (Protection) Act, 1986 (29 of 1986) read with sub-rule (3) of rule 5 of the Environment (Protection) Rules, 1986, the Central Government hereby makes the following rules further to amend the Environment (Protection) Rules, 1986, namely:-

1. (1) These rules may be called the Environment (Protection) Amendment Rules, 2018.
(2) They shall come into force on the date of their publication in the Official Gazette.
2. In the Environment (Protection) Rules, 1986, in Schedule-I,-
(a) against serial number 5A, in column 4, for item III, the following item shall be substituted, namely:-
“III. Specific water consumption shall not exceed maximum of 3.0 m³/MWh for new plants installed after the 1st January, 2017 and these plants shall also achieve zero waste water discharge.”;
(b) after serial number 5A and the entries relating thereto, the following serial number and entries shall be inserted, namely:-

Sl. No.	Industry	Parameter	Standards
1	2	3	4
“5B.	Thermal Power Plant (water consumption limit) using sea water	Water consumption	Items I to III in column 4 in serial number 5A above shall not be applicable to the Thermal Power Plants using sea water”;

- (c) in serial number 25, the following Note shall be inserted, namely:—

“**Note:** All monitored values for SO₂, NO_x and Particulate Matter shall be corrected to 6% Oxygen, on dry basis”;

- (d) after serial number 33 and the entries relating thereto, the following serial number and entries shall be inserted, namely:—

Sl. No.	Industry	Parameter	Standards
1	2	3	4

Annexure 7 (2 of 2) Feasibility Report_FGD

4

THE GAZETTE OF INDIA : EXTRAORDINARY

[PART II—SEC. 3(i)]

"33A.	Thermal Power Plants with wet Flue Gas Desulphurization (FGD)	Stack Height/Limit in Meters	Power generation capacity: 100 MW and above $H=6.902(QX0.277)^{0.555}$ or 100 m minimum Less than 100 MW $H=6.902(QX0.277)^{0.555}$ or 30 m whichever is more"; Q = Emission rate of SO ₂ in kg/hr* H = Physical stack height in meter *total of the all Unit's connected to stack Note: These standards shall apply to coal / lignite based Thermal Power Plants."
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[F. No. Q-15017/40/2007-CPW]

DR. A. SENTHIL VEL, Scientist 'G'

Note: The principal rules were published in the Gazette of India, Extraordinary, Part II, Section 3, Sub-section (i) vide number S.O. 844 (E), dated the 19th November, 1986 and last amended vide notification number G.S.R. 263(E), dated the 22nd March, 2018.

RAKESH
SUKUL

Digitally signed by RAKESH
SUKUL
Date: 2018.07.03 20:39:18
+05'30'



8.2 CEA & CPCB LETTER TO GVK POWER



Government of India
 Ministry of Environment and Forests
 Annexure to the Feasibility Report FGD

Telefax: 011- 2436 4067
 Paryavaran Bhavan, C.G.O. Complex,
 Lodi Road, New Delhi -110003.
 Dated: 19th February, 2014

To

M/s. GVK Power (Goindwal Sahib) Ltd.
 Paigah House, 156-159,
 Sardar Patel Road,
 Secunderabad 500 003
 Andhra Pradesh.

Sub: 2x270 MW coal based Thermal Power Project at Goindwal Sahib, District Tarn Taran in Punjab by M/s GVK Power (Goindwal Sahib) Ltd.-reg. Amendment and Extension of validity of EC.

Sir,

This has reference to your letters dated 02.05.2013, 12.07.2013 and 16.10.2013 requesting for amendment and extension of validity of environmental clearance accorded for the above mentioned project. It is noted that the plant configuration has been revised from 2x300 MW, as per the EC to 2x270 MW.

2. The matter for extension of validity of EC was placed before the Expert Appraisal Committee (Thermal Power) in its 4th Meeting held during November 18-19, 2013. In acceptance of the recommendation of the Expert Appraisal Committee (Thermal Power) and in view of the information/clarification furnished by you with respect to the implementation of the above mentioned power project, the validity of the environmental clearance (with revised configuration of 2x270 MW) issued by this Ministry's letter of even no., dated 09.05.2008 is now extended for a further period of five years i.e. till 08.05.2018.

3. Further, under Para no.3 of this Ministry's letter of even no. dated 09.05.2008 after the condition no. (xxvi), the following conditions shall be inserted:

- (xxvii) Harnessing solar power within the premises of the plant particularly at available roof tops shall be undertaken and status of implementation shall be submitted periodically to the Regional Office of the Ministry.
- (xxviii) A long term study on radio activity and heavy metals contents on coal to be used shall be carried out through a reputed institute. Thereafter mechanism for an in-built continuous monitoring for radio activity and heavy metals in coal and fly ash (including bottom ash) shall be put in place.
- (xxix) Mercury emissions from stack shall also be monitored on periodic basis.
- (xxx) Fugitive emissions shall be controlled to prevent impact on agricultural or non-agricultural land.
- (xxxi) No ground water shall be extracted for use in operation of the power plant even in lean season.

(xxxii) Source sustainability study of water requirement shall be carried out by an institute of repute. The study shall also specify the source of water for meeting the requirement during lean season. The report shall be submitted to the Regional Office of the Ministry **within six months**.

(xxxiii) Hydro geological study of the area shall be reviewed annually and report submitted to the Ministry. No water bodies including natural drainage system in the area shall be disturbed due to activities associated with the setting up / operation of the power plant.

(xxxiv) Minimum required environmental flow suggested by the Competent Authority of the State Govt. shall be maintained in the Channel/ Rivers (as applicable) even in lean season.

(xxxv) COC of 5.0 shall be adopted.

(xxxvi) Fly ash shall not be used for agricultural purpose. No mine void filling will be undertaken as an option for ash utilization without adequate lining of mine with suitable media such that no leachate shall take place at any point of time. In case, the option of mine void filling is to be adopted, prior detailed study of soil characteristics of the mine area shall be undertaken from an institute of repute and adequate clay lining shall be ascertained by the State Pollution Control Board and implementation done in close co-ordination with the State Pollution Control Board.

(xxxvii) Green Belt consisting of 3 tiers of plantations of native species around plant and at least 100 m width shall be raised. Wherever 100 m width is not feasible a 50 m width shall be raised and adequate justification shall be submitted to the Ministry. Tree density shall not be less than 2500 per ha with survival rate not less than 75 %.

(xxxviii) Three tier green belt shall be developed all around Ash Pond over and above the Green Belt around the plant boundary.

(xxxix) A common **Green Endowment Fund** shall be created and the interest earned out of it shall be used for the development and management of green cover of the area.

(xl) The project proponent shall also adequately contribute in the development of the neighboring villages. Special package with implementation schedule for free potable drinking water supply in the nearby villages and schools shall be undertaken in a time bound manner.

(xli) An amount of Rs. 12 Crores shall be earmarked as one time capital cost for CSR programme. Subsequently a recurring expenditure of Rs. 2.4 Crores per annum shall be earmarked as recurring expenditure for CSR activities. Details of the activities to be undertaken shall be **submitted within one month** along with road map for implementation.

(xlii) CSR scheme should address Public Hearing issues and shall be undertaken based on need based assessment in and around the villages within 5.0 km of the site and in constant consultation with the village Panchayat and the District Administration. As part of CSR prior identification of local employable youth and eventual employment in the project after imparting relevant training shall be also undertaken. Development of fodder farm, fruit bearing orchards, vocational training etc. can form a part of such

programme. Company shall provide separate budget for community development activities and income generating programmes. Vocational training programme for possible self employment and jobs shall be imparted to identify villagers free of cost.

- Annexure 7 (2 of 2) Feasibility Report EGD**
- (xliv) It shall be ensured that in-built monitoring mechanism for the schemes identified is in place and annual social audit shall be got done from the nearest government institute of repute in the region. The project proponent shall also submit the status of implementation of the scheme from time to time.
- (xlv) An Environmental Cell shall be created at the project site itself and shall be headed by an officer of the company of appropriate seniority and qualification. It shall be ensured that the head of the Cell shall directly report to the Head of the Organization.
- (xlv) Regular monitoring of ground water level shall be carried out by establishing a network of existing wells and constructing new piezometers. Monitoring around the ash pond area shall be carried out particularly for heavy metals (Hg,Cr,As,Pb) and records maintained and submitted to the Regional Office of this Ministry. The data so obtained should be compared with the baseline data so as to ensure that the ground water quality is not adversely affected due to the project.
- (xlv) Monitoring of surface water quantity and quality shall also be regularly conducted and records maintained. The monitored data shall be submitted to the Ministry regularly. Further, monitoring points shall be located between the plant and drainage in the direction of flow of ground water and records maintained. Monitoring for heavy metals in ground water shall be undertaken.
- (xlvii) The environment statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of the Ministry by e-mail.
- (xlviii) The project proponent shall formulate a well laid Corporate Environment Policy and identify and designate responsible officers at all levels of its hierarchy for ensuring adherence to the policy and compliance with the conditions stipulated in this clearance letter and other applicable environmental laws and regulations.
4. All other conditions mentioned in this Ministry's letter of even no. dated 09.05.2008 shall remain the same.
5. This issues with the approval of the Competent Authority.

Yours faithfully,

Sanj
(Dr. Sanj)
Director

Page 3 of 4

Copy to:

- Annexure 7 (2 of 2) Feasibility Report EGD**
1. The Secretary, Ministry of Power, Sahakar Bhawan, Rafi Marg, New Delhi 110001.
 2. The Secretary, Science, Technology & Environment Department Government of Punjab, Punjab Civil Secretariat, Chandigarh .
 3. The Chairman, Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi-110066.
 4. The Chairman, Punjab State Pollution Control Board, Vata Varan Bhawan, Nabha Road, Patiala, Punjab- 147 001.
 5. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi- 110032.
 6. The Chief Conservator of Forests, Regional Office (NZ), Ministry of Environment and Forests, SCO 132-133, Sector 34-A, Chandigarh- 160 002.
 7. The District Collector, Tran Taran District, Govt. of Punjab.
 8. Monitoring file.


(Dr. Saroj)
Director

Annexure 7 (2 of 2) Feasibility Report_FGD



भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
अल्ट्रा मेगा विद्युत परियोजना विकास प्रभाग

Ultra Mega Power projects Development Division

सं.:44/FGD/यूएमपीपी/सीईए/ 2019/ 176

दिनांक: 06.02.2019

सेवा में,

The Chairman, GVK Power and Infrastructure Ltd.,
Paigah House, 156-159, SP Road
Secunderabad 500003, Telangana, India

Subject: Adherence to Environmental norms as per Environment (Protection) Amendment Rules 2015 for Thermal Power Stations- Implementation of FGD reg.

Sir,

This is in reference to our various communications/meeting on adherence to Notification of Ministry of Environment, Forest and Climate Change (MOEF&CC) on new Environmental norms as per Environment (Protection) Amendment Rules 2015 for Thermal Power Stations and also the phasing plan for compliance by all power producers in the country. The phasing plan for implementation of FGD system is strict and the power producers across the country is expected to meet the specified timeline. It is again mentioned here that the whole process of installations of FGD Systems would take not less than two years of time.

CERC and some SERCs in the matter of Private Power Producers have directed to approach CEA for advising the specific technology and associated costs and other related matters in installation of systems as per the new norms. In this regard, it is mentioned here that CEA is accepting the feasibility reports submitted by power plants and are not insisting for prior approval of CERC or concerned regulators. Standard formats (Templates) have been designed and circulated to all power plants vide Ref. Letter nos. 44/FGD/UMPP/CEA/2017 & 2018 dated 22.08.2017/ 14.09.2017/ 09.10.2017 & 23.01.2018. The formats are made available in the CEA's website (<http://www.cea.nic.in/umpp.html>). Also vide our letter Ref. No. 44/FGD/UMPP/CEA dated 10.04.2018, chapter wise outline for preparing feasibility report had been suggested to all IPPs. Though some of the power plants have forwarded their data in the formats mentioned above, most of the others have either forwarded half of the information or data which are not correct; as on analysis lot of anomalies have been found.

In light of the above, power producers are requested again to forward the correct data to CEA in the formats designed for the purpose only (Format 1,2,3 & 4, available in CEA's website) and prepare the feasibility report mainly consisting of the chapters as mentioned below:

- I. Brief details of the plant
- II. Present Emissions and water usage of the plant
- III. Comparison of available technologies for reduction of emission levels and selection of technology, reasons thereof.
- IV. Proposed scheme and impact on existing plant including study on reagent and by-product, where so necessary.

- Annexure 7 (2 of 2) Feasibility Report_FGD**
- V. Implementation plan
 - VI. Cost estimates including Capex, Opex etc.
 - VII. Impact on Tariff
 - VIII. Layout and flow diagrams of the proposed system

In order to suggest Power Plants an appropriate technology and related cost implications in FGD installations, studies of the existing plant facilities and the emissions that are generated at the present level are done and also to meet the new emission norms of MOEF & CC the modifications / new equipment to be added/ modified/ retrofitted to the existing system are studied in detail. In this context the following is analyzed:

- a. Estimation & analysis of the present plant emission levels based on fuel nature & operating conditions.
- b. Comparative study of the various types of emission abatement technologies commercially available in the market and selection of optimal technology solutions considering the space required for retrofit, percentage reduction of emissions, availability, source & cost of reagents, utilization of by-product, auxiliary power consumption, utilities requirement, plant operating conditions, proven nature of technology and life cycle cost analysis etc.
- c. Study of space/provision available in the existing plant for installation of the proposed abatement technologies with relevant sub-systems and impact/modification of the existing plant equipment, civil aspects, plant instrumentation & control, electrical power supply system & other plant parameters, due to the retrofit.
- d. Study of existing water system and consumption pattern and modification/installation of new equipment to meet the water requirement of the new systems added and to maintain the water requirement as per the revised MOEF & CC norms.
- e. Estimation of cost estimates of CAPEX and OPEX with break-ups under major heads for the selected commercially available optimal technologies so as to have minimum loading on the tariff.
- f. Project Implementation schedule for above to meet the new norms.
- g. A site visit is also carried out, if required.

It is reiterated that the power plants should provide complete & correct information and a detailed feasibility report at earliest so that recommendation on specific technology, associated indicative costs and other related matters could be provided in time. In case of any further query regarding preparation, submission, acceptance and recommendation towards feasibility report, power plants may contact the undersigned if need be.

This is for your information and necessary action please.

भवदीय

(चन्द्र शेखर)

मुख्य अभियंता

Tel. 26195472



8.3 CURRENT PLANT EMISSIONS (AIR & WATER) – REPORTED TO CPCB

Annexure 7 (2 of 2)_Feasibility Report_FGD



GP GSL/MoP/2018/

Date: 10-09-2018

To
 Chief Engineer,
 Central Electricity Authority/ Thermal Performance Evaluation & Climate
 Change Division 9th Floor (S),
 Sewa Bhawan, Ministry of Power, Government of India,
 R.K. Puram, New Delhi- 110066

Subject: Submission of Annual Water consumption data M/s GVK Power
 (Goindwalsahib) Ltd., Goindwalsahib, Dist-Tarn Taran, (PB) reg.

Ref: Letter vide no- No.CEA/Th/TPE&CC/ENV/3/2018/11-1123, Dated:
 27.08.2018.

Sir,

In reference to above referred subject, we hereby submitting the Annual water
 consumption data for the FY 2017-18 of GVK Thermal power station as per
 prescribed format through email at cdmcea@yahoo.co.in & cdmcea-tpecc@gov.in
 and the same is also being sent in hardcopy through speed post as desired by you.

Thanking you,

Yours sincerely,

for GVK Power (Goindwal Sahib) Limited


 Bivash Chandra Ghosh

VP-Operation
 (Factory Manager)

Encl: as above

GVK Power (Goindwal Sahib) Limited
 Goindwal Sahib Kaputhala Road,
 Goindwal Sahib,
 District - Tarn Taran - 143422, Punjab - India
 T+91 01859 225113 F+91 01859 - 223332
www.gvk.com

Registered Office
 Paigah House, 156-159, Sardar Patel Road
 Secunderabad 500 003
 Andhra Pradesh, India

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Annexure 7 (2 of 2)_Feasibility Report_FGD

ANNUAL WATER CONSUMPTION FOR THE YEAR 2017-18

NAME OF THE THERMAL POWER STATION: GVK Power (Goindwal Sahib) Limited, Kapurthala Road, Near Goindwal Sahib, TarnTaran, 143 422

TYPE OF FUEL USED: Coal

LATITUDE AND LONGITUDE OF THE PLANT: 31° 21' 35" N 31° 24' 40" N 75° 07' 30" E 75° 07' 30" E

CONTACT NO., EMAIL AND FAX NO. Phone no. 01859-225103, blvashchandra.ghosh@gvk.com, Fax: 01859-225113

Unit No.	Capacity (MW)	Gross actual Generation (GWh)	Type of Water Source (River/Canal/Sea etc.)	Name of the water source	Type of Cooling (OTCW/CT/ACC)	Annual Allocated Quantity of Water (1000m3)	Annual Actual Consumption of Water (1000 m3)		Total Annual actual Consumption of Water (1000m3)	Actual Consumption (m3/MWh)	Applicable Water Norm (m3/MWh)	%Deviation From Norms*	Whether Zero Liquid Discharge (yes/No)
							Metered	Unmetered					
1 & 2	(2X270)	1538.066	River	Beas River	CT	17849230	5280656		5280656	3.43	3.5	Nil	YES
Total	540	1538.066				17849230	5280656		5280656	3.43	3.5		

OTCW- Once Through Cooling Water System, CT- Cooling Tower Along with type of CT, ACC- Air Cooled Condenser.
*Reason of such Deviations, if exceeding norms and corrective measures under taken against the deviation, if any.



Annexure 7 (2 of 2)_Feasibility Report_FGD



GVKPGSL/CPCB/2018/

Date: 10.01.2019

To

Sh. Nizamuddin (Scientist 'E')
 Divisional Head, IPC-II Division,
 Central Pollution Control Board,
 Parivesh Bhawan, East Arjun Nagar
 Delhi-110032

Subject: Submission of Quarterly Water consumption data M/s GVK Power
 (Goindwalsahib) Ltd., Goindwalsahib, Dist-Tarn Taran, (PB) reg.

Ref: Scan copy of letter through E-MAIL vide no - B-33014/7/2018/IPC-II/TPP,
 CPCB, Delhi, Dated: 02.01.2019.

Sir,

In reference to above referred subject, we hereby submitting the Quarterly water consumption data for October, 2018 – December, 2018 of GVK Thermal power station as per prescribed format.

We sincerely hope that the above is in line with your requirement and the same is for your kind information and consideration

Thanking you,

Yours sincerely,

for GVK Power (Goindwal Sahib) Limited


 Bivash Chandra Ghosh

VP-Operation
 (Factory Manager)

Encl: as above

CC: Environmental Engineer, Regional Office, PPCB, Amritsar.

GVK Power (Goindwal Sahib) Limited
 Goindwal Sahib Kaputhala Road,
 Goindwal Sahib,
 District - Tarn Taran - 143422, Punjab - India
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 Andhra Pradesh, India

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Annexure 7 (2 of 2)_Feasibility Report_FGD

Format for quarterly reporting of water consumption data and compliance with respect to the limit notified vide notification dated 07.12.2015 for coal/lignite based thermal power plants

Name of the Power Plant : GVK Power (Goindwalsahib) Ltd., Goindwalsahib, Tarn Tarn
 State : Punjab
 Capacity (total in MW) : 540MW
 Unit wise Capacity : 2x270MW
 Applicable SWC Standard : 3.5 m³/MWh
 Zero Waste Water Discharge Condition mandatory or not: *Mandatory*

Quarter	Date	Power Generation (MWh)	Water Consumption (m ³)	Sp. Water Consumption (Daily Avg. in m ³ /MWh)
October-December, 2018				
October	01.10.2018	9.188	30188	3.29
	02.10.2018	6.822	23449	3.44
	03.10.2018	6.505	21136	3.25
	04.10.2018	6.459	22429	3.47
	05.10.2018	6.648	20751	3.12
	06.10.2018	12.427	40087	3.23
	07.10.2018	12.897	44558	3.45
	08.10.2018	12.894	43192	3.35
	09.10.2018	12.491	40072	3.21
	10.10.2018	9.545	33275	3.49
	11.10.2018	9.983	29432	2.95
	12.10.2018	6.643	21897	3.30
	13.10.2018	6.367	22040	3.46
	14.10.2018	6.439	22487	3.49
	15.10.2018	6.424	18384	2.86
	16.10.2018	6.455	19782	3.06
	17.10.2018	5.608	19287	3.44
	18.10.2018	4.333	12401	2.86
	19.10.2018	4.325	14708	3.40
	20.10.2018	4.327	12736	2.94
	21.10.2018	4.33	12528	2.89
	22.10.2018	4.308	14735	3.42
	23.10.2018	4.344	14819	3.41
	24.10.2018	4.292	13196	3.07
	25.10.2018	4.34	13577	3.13
	26.10.2018	3.85	13204	3.43
	27.10.2018	4.34	14053	3.24
	28.10.2018	4.106	12062	2.94
	29.10.2018	4.175	14048	3.36
	30.10.2018	5.661	18368	3.24

Annexure 7 (2 of 2) Feasibility Report_FGD

	31.10.2018	5.633	16412	2.91
	AVG.	206.159	669295	3.246
November	01.11.2018	5.806	18975	3.27
	02.11.2018	5.931	19544	3.30
	03.11.2018	5.748	19992	3.48
	04.11.2018	5.514	16321	2.96
	05.11.2018	5.632	16875	3.00
	06.11.2018	5.796	17727	3.06
	07.11.2018	4.291	14502	3.38
	08.11.2018	3.79	12827	3.38
	09.11.2018	5.527	17912	3.24
	10.11.2018	5.649	16827	2.98
	11.11.2018	6.419	19896	3.10
	12.11.2018	5.153	15976	3.10
	13.11.2018	6.096	19890	3.26
	14.11.2018	5.568	18263	3.28
	15.11.2018	4.245	14686	3.46
	16.11.2018	6.121	18685	3.05
	17.11.2018	6.405	18722	2.92
	18.11.2018	6.26	21468	3.43
	19.11.2018	6.307	20032	3.18
	20.11.2018	6.155	18175	2.95
	21.11.2018	6.021	18692	3.10
	22.11.2018	10.25	31377	3.06
	23.11.2018	12.3	42940	3.49
	24.11.2018	12.556	36790	2.93
	25.11.2018	11.595	39069	3.37
	26.11.2018	10.397	31699	3.05
	27.11.2018	10.225	33931	3.32
	28.11.2018	9.83	34019	3.46
	29.11.2018	9.033	27977	3.10
	30.11.2018	6.112	20541	3.36
	AVG.	210.732	674330	3.200
December	01.12.2018	4.4	15191	3.45
	02.12.2018	5.127	17279	3.37
	03.12.2018	5.286	16029	3.03
	04.12.2018	6.119	19905	3.25
	05.12.2018	5.711	19898	3.48
	06.12.2018	5.167	17687	3.42
	07.12.2018	4.997	15622	3.13
	08.12.2018	5.237	14641	2.80
	09.12.2018	4.409	15017	3.41
	10.12.2018	9.443	27033	2.86
	11.12.2018	10.859	29091	2.68
	12.12.2018	9.96	29517	2.96
	13.12.2018	11.32	34918	3.08

Annexure 7 (2 of 2)_Feasibility Report_FGD

14.12.2018	10.062	30495	3.03
15.12.2018	9.472	32363	3.42
16.12.2018	10.74	35635	3.32
17.12.2018	10.257	27840	2.71
18.12.2018	9.331	32573	3.49
19.12.2018	9.676	31124	3.22
20.12.2018	10.674	35485	3.32
21.12.2018	10.656	31056	2.91
22.12.2018	10.157	29562	2.91
23.12.2018	8.081	26651	3.30
24.12.2018	9.569	29162	3.05
25.12.2018	11.086	35276	3.18
26.12.2018	10.537	33995	3.23
27.12.2018	10.247	34215	3.34
28.12.2018	9.6	33449	3.48
29.12.2018	10.116	30161	2.98
30.12.2018	7.788	24738	3.18
31.12.2018	9.048	26253	2.90
AVG.	265.132	831861	3.138

Remark 1: Zero Waste Water Discharge Status: *Being Complied.*

Remark 2: If SWC limit not complied, explain if any: _____.

(Name & Designation of authorised official)
With Seal

Name: Bivash Chandra Ghosh

Designation: Vice President

(Factory Manager)





8.4 CURRENT PLANT EMISSIONS – THIRD PARTY TESTS

Annexure 7 (2 of 2)_Feasibility Report_FGD

FY	Year	Imported	Rate No	Month-date	month	RR No/RR Date	Date of unloading	Date of Sampling	No. of Wagons	Source	RR Quantity (MT)	Received Quantity (MT)	TM (ARR) (MT)	IM (ARR) (%)	EM (%)	ASH (ARR) (%)	VIN (ARR) (%)	FC (ARR) (%)	GCY (ARR) kcal/kg	(ARR) kcal/kg	GCY kcal/kg (RR)	HG	\$ %
2016-17	2016	Domestic	26	Apr-16	Apr	212000235/28.03.2016	21/Apr/16	21/Apr/16	58	Linkage Coal	3830.80	3832.30	10.44	2.39	4.93	31.58	33.01	32.06	3965	3965	3866	58	0.46
2016-17	2016	Domestic	27	Apr-16	Apr	212000237/29.03.2016	31/Apr/16	31/Apr/16	58	Linkage Coal	3838.60	3829.90	11.57	2.19	4.39	32.52	33.58	32.58	3962	3962	3852	58	0.47
2016-17	2016	Domestic	28	Apr-16	Apr	212000031/09.04.2016	12/Apr/16	12/Apr/16	58	Linkage Coal	3802.00	3670.20	7.11	2.33	3.96	33.28	30.23	33.33	3829	3829	3859	59	0.45
2016-17	2016	Domestic	29	May-16	May	412000008/24.05.2016	26/May/16	26/May/16	54	Linkage Coal	4807.00	3559.50	2.78	0.75	0.9	34.00	25.06	36.81	4748	4651	4741	58	0.38
2016-17	2016	Domestic	30	May-16	May	412000012/25.05.2016	27/May/16	27/May/16	57	Linkage Coal	5330.20	3918.30	3.65	0.51	0.58	33.69	26.51	36.87	4189	4185	4189	60	0.42
2016-17	2016	Domestic	31	May-16	May	412000009/27.05.2016	28/May/16	28/May/16	58	Linkage Coal	5120.40	3712.50	1.55	0.21	0.28	33.69	26.51	36.78	4545	4410	4545	58	0.40
2016-17	2016	Domestic	32	May-16	May	412000011/27.05.2016	28/May/16	28/May/16	58	Linkage Coal	5219.00	3843.00	1.73	0.67	0.8	32.78	29.02	37.15	4434	4386	4419	58	0.39
2016-17	2016	Domestic	33	May-16	May	412000010/27.05.2016	29/May/16	29/May/16	58	Linkage Coal	5107.30	3862.20	1.73	0.62	0.89	33.48	29.55	37.53	4234	4222	4222	60	0.42
2016-17	2016	Domestic	34	May-16	May	412000012/27.05.2016	31/May/16	31/May/16	57	Linkage Coal	4799.00	3737.30	3.74	0.65	0.9	33.68	25.65	39.46	4743	4595	4731	58	0.36
2016-17	2016	Domestic	35	Jun-16	Jun	412000013/28.06.2016	2/Jun/16	2/Jun/16	58	Linkage Coal	5053.00	3666.70	2.17	0.49	0.86	33.55	28.1	37.46	4387	4445	4445	59	0.4
2016-17	2016	Domestic	36	Jun-16	Jun	412000014/09.06.2016	7/Jun/16	7/Jun/16	54	Linkage Coal	3125.43	3005.90	3.22	1.05	1.35	31.68	28.1	36.82	4725	4621	4711	58	0.35
2016-17	2016	Domestic	37	Jun-16	Jun	412000015/09.06.2016	13/Jun/16	13/Jun/16	57	Linkage Coal	3643.30	3442.80	2.59	0.98	1.1	34.50	24.68	40.17	4847	4769	4842	60	0.34
2016-17	2016	Domestic	38	Jun-16	Jun	412000017/09.06.2016	13/Jun/16	13/Jun/16	57	Linkage Coal	3847.60	3594.80	3.31	1.12	1.42	33.95	24.68	40.67	4839	4779	4842	57	0.36
2016-17	2016	Domestic	39	Jun-16	Jun	412000016/09.06.2016	13/Jun/16	13/Jun/16	58	Linkage Coal	3858.90	3450.50	3.25	1.05	0.98	32.69	27.88	38.06	4537	4436	4540	58	0.34
2016-17	2016	Domestic	40	Jun-16	Jun	412000015/16.06.2016	29/Jun/16	29/Jun/16	59	Linkage Coal	3803.30	3735.00	2.98	1.1	1.34	31.28	26.98	35.84	4701	4612	4586	57	0.32
2016-17	2016	Domestic	41	Jul-16	Jul	412000015/27.06.2016	21/Jul/16	21/Jul/16	58	Linkage Coal	3927.30	3637.80	7.2	1.04	1.24	31.00	30.21	36.41	4304	4430	4304	68	0.34
2016-17	2016	Domestic	42	Jul-16	Jul	412000017/28.06.2016	21/Jul/16	21/Jul/16	58	Linkage Coal	3701.70	3513.40	7.74	1.15	2.91	31.00	30.21	36.41	4304	4430	4304	68	0.34
2016-17	2016	Domestic	43	Jul-16	Jul	412000018/28.06.2016	31/Jul/16	31/Jul/16	57	Linkage Coal	3606.70	3363.30	7.03	1.12	2.79	33.68	26.42	36.43	4563	4563	4489	60	0.32
2016-17	2016	Domestic	44	Jul-16	Jul	412000019/30.06.2016	31/Jul/16	31/Jul/16	58	Linkage Coal	3564.60	3389.30	7.93	1.05	2.86	31.69	29.81	36.97	4338	4056	4259	60	0.28
2016-17	2016	Domestic	45	Jul-16	Jul	412000019/30.06.2016	5/Jul/16	5/Jul/16	58	Linkage Coal	3627.00	3312.60	6.57	1.19	3.02	32.55	28.83	37.08	4568	4130	4287	59	0.25
2016-17	2016	Domestic	46	Jul-16	Jul	412000021/30.06.2016	6/Jul/16	6/Jul/16	58	Linkage Coal	3527.76	3201.26	4.92	1.04	2.82	30.69	29.69	37.08	4568	4130	4287	59	0.25
2016-17	2016	Domestic	47	Jul-16	Jul	412000022/08.07.2016	11/Jul/16	11/Jul/16	58	Linkage Coal	3718.20	3400.10	3.78	1.14	2.21	32.78	27.85	37.86	4478	4358	4478	59	0.4
2016-17	2016	Domestic	48	Jul-16	Jul	412000023/10.07.2016	14/Jul/16	14/Jul/16	57	Linkage Coal	3297.23	3246.10	4.24	1.32	1.74	30.60	32.84	35.51	4237	4112	4215	60	0.33
2016-17	2016	Domestic	49	Jul-16	Jul	412000024/15.07.2016	20/Jul/16	20/Jul/16	59	Linkage Coal	3533.01	3353.01	5.21	1.57	2.06	31.12	30.41	34.53	4187	4032	4186	60	0.3
2016-17	2016	Domestic	50	Jul-16	Jul	412000024/15.07.2016	30/Jul/16	30/Jul/16	59	Linkage Coal	3840.80	3768.30	7.59	1.08	1.28	32.00	37.01	34.53	4250	4038	4248	65	0.38
2016-17	2016	Domestic	51	Jul-16	Jul	412000043/26.07.2016	30/Jul/16	30/Jul/16	58	Linkage Coal	3916.50	3791.00	7.48	1.02	1.15	30.25	32.48	35.65	4155	3885	4130	62	0.4
2016-17	2016	Domestic	52	Jul-16	Jul	412000044/27.07.2016	30/Jul/16	30/Jul/16	59	Linkage Coal	3953.21	3921.70	5.18	1.52	1.67	31.45	31.4	35.27	3952	3821	3952	62	0.36
2016-17	2016	Domestic	53	Jul-16	Jul	412000047/31.07.2016	8/Aug/16	8/Aug/16	58	Linkage Coal	3987.50	3697.50	4.86	1.01	1.1	32.54	26.32	39.75	4268	4102	4264	60	0.38
2016-17	2016	Domestic	54	Sep-16	Sep	412000049/05.08.2016	8/Sep/16	8/Sep/16	57	28Bha	3771.08	3677.20	6.52	1.2	2.02	31.58	26.1	40.74	4392	4156	4386	57	0.38
2016-17	2016	Domestic	55	Oct-16	Oct	412000093/01.10.2016	5/Oct/16	5/Oct/16	58	Linkage Coal	3735.40	2607.50	8.84	0.92	1.54	30.69	28.44	39.39	4287	3917	4230	60	0.36
2016-17	2016	Domestic	56	Oct-16	Oct	412000103/14.10.2016	19/Oct/16	19/Oct/16	55	Linkage Coal	3603.80	3449.50	6.61	1.18	1.81	34.1	26.43	37.91	4307	4070	4280	57	0.38
2016-17	2016	Domestic	57	Dec-16	Dec	412000126/23.12.2016	27/Dec/16	11/Jan/17	58	Linkage Coal	3815.30	3658.40	6.87	2.51	3.67	34.58	26.82	35.69	4355	4160	4310	57	0.4
2016-17	2017	Domestic	58	Jan	Jan	412000162/05.01.2017	11/Jan/17	11/Jan/17	58	Linkage Coal	3858.40	3438.00	11.48	3.52	3.65	31.25	31.44	35.27	4280	3927	4285	56	0.32
2016-17	2017	Domestic	59	Feb-17	Feb	412000084/10.02.2017	14/Feb/17	14/Feb/17	58	Linkage Coal	4159.20	4050.80	11.44	3.43	3.78	34.5	28.8	32.87	4280	3768	4084	58	0.4
2016-17	2017	Domestic	60	May-17	May	412000022/27.05.2017	31/May/17	31/May/17	58	BARAKANA	3892.80	4164.00	9.27	3.25	3.77	32.44	27.86	36.26	4232	3969	4209	56	0.49
2016-17	2017	Domestic	61	Jun-17	Jun	412000033/28.06.2017	2/Jun/17	2/Jun/17	55	BAR	3276.20	3220.23	9.6	6.15	8.13	32.45	24.42	36.31	4337	4178	4246	55	0.47
2016-17	2017	Domestic	62	Jun-17	Jun	412000166/30.06.2017	3/Jun/17	3/Jun/17	54	EM	3424.40	3321.30	6.54	0.89	1.17	34.00	24.9	39.82	4337	4002	4325	57	0.39
2016-17	2017	Domestic	63	Jun-17	Jun	412000168/01.07.2017	5/Jun/17	5/Jun/17	58	DUGDHA	3735.60	3615.20	7.58	0.8	1.27	33.90	20.79	44.93	4587	4587	4901	54	0.38
2016-17	2017	Domestic	64	Jun-17	Jun	412000095/03.06.2017	7/Jun/17	7/Jun/17	59	BAR	3425.90	3394.50	9.58	5.33	6.5	32.82	28.52	34.81	4094	3872	4004	55	0.42
2016-17	2017	Domestic	65	Jun-17	Jun	412000048/04.06.2017	7/Jun/17	7/Jun/17	59	BARAKANA	3967.70	4236.00	8.66	3.39	4.04	32.51	35.65	27.69	4305	4219	4382	58	0.35
2016-17	2017	Domestic	66	Jun-17	Jun	412000039/07.06.2017	9/Jun/17	9/Jun/17	58	BACHRA	3610.90	3543.60	8.48	6.07	6.54	34.34	30.38	28.86	3472	3383	3455	55	0.4
2016-17	2017	Domestic	67	Jun-17	Jun	412000041/10.06.2017	13/Jun/17	13/Jun/17	58	BACHRA	3524.60	3408.00	10.29	7.14	7.65	36.31	22.57	33.6	4069	3931	4047	52	0.38
2016-17	2017	Domestic	68	Jun-17	Jun	412000040/08.06.2017	13/Jun/17	13/Jun/17	58	BACHRA	3843.80	3681.70	10.05	6.68	7.07	32.75	27.92	32.28	3970	3827	3953	54	0.41
2016-17	2017	Domestic	69	Jun-17	Jun	412000017/07.06.2017	13/Jun/17	13/Jun/17	59	DUGDHA	3746.00	3692.90	3.79	1.1	1.25	36.2	23.21	39.18	4283	4167	4277	57	0.31
2016-17	2017	Domestic	70	Jun-17	Jun	41200012/13.06.2017	16/Jun/17	16/Jun/17	58	DUGDHA	3866.20	3728.10	3.84	0.97	1.01	32.40	22.06	44.15	4651	4516			

Annexure 7 (2 of 2)_Feasibility Report_FGD

FY	Year	Imported	Ball No	Month-date	Month	RR No/RR Date	Date of unloading	Date of Sampling	No. of Wagons	Source	RR Quantity (MT)	Received Quantity (MT)	TM (ARR)	IM (%)	EM (%)	Ash (ADB) %	VM (ADB) %	FC (%)	GCY (ADB) kcal/kg	GCY (ADB) kcal/kg (Edited)	HGI	\$ (ADB)	
2017-18	2017	Domestic	88	Jul-17	Aug	412000058/20.02.2017	26/Jul/17	24/Jul/17	58	BACHRA	3717.21	3717.21	14.04	8.56	9.36	35.07	73.48	31.33	3927	3692	8899	55	0.36
2017-18	2017	Domestic	89	Jul-17	Aug	412000060/22.07.2017	25/Jul/17	25/Jul/17	58	BACHRA	3987.40	3987.40	12.02	8.51	9.39	34.00	75.3	31.83	3768	3680	8880	55	0.36
2017-18	2017	Domestic	91	Jul-17	Aug	412000061/22.07.2017	25/Jul/17	25/Jul/17	58	BACHRA	3715.38	3634.30	13.56	7.75	8.54	33.40	78.85	29.92	3783	3545	3751	57	0.38
2017-18	2017	Domestic	92	Jul-17	Aug	412000062/24.07.2017	26/Jul/17	26/Jul/17	58-2-46	KNT	3805.10	3531.60	15.54	9.41	10.3	32.00	75.08	33.17	4080	3804	4040	51	0.34
2017-18	2017	Domestic	93	Jul-17	Aug	412000063/24.07.2017	27/Jul/17	27/Jul/17	58	BACHRA	3797.20	3797.20	13.2	8.1	8.45	34.00	74.61	32.98	3875	3788	3560	55	0.36
2017-18	2017	Domestic	94	Jul-17	Aug	412000064/24.07.2017	31/Jul/17	31/Jul/17	58	BACHRA	3797.20	3797.20	13.2	8.1	8.45	34.00	74.61	32.98	3875	3788	3560	55	0.36
2017-18	2017	Domestic	95	Aug-17	Aug	412000065/24.07.2017	2/Aug/17	2/Aug/17	58	BACHRA	3797.20	3797.20	13.2	8.1	8.45	34.00	74.61	32.98	3875	3788	3560	55	0.36
2017-18	2017	Domestic	96	Aug-17	Aug	412000066/24.07.2017	2/Aug/17	2/Aug/17	58	BACHRA	3797.20	3797.20	13.2	8.1	8.45	34.00	74.61	32.98	3875	3788	3560	55	0.36
2017-18	2017	Domestic	97	Aug-17	Aug	412000067/24.07.2017	2/Aug/17	2/Aug/17	58	BACHRA	3797.20	3797.20	13.2	8.1	8.45	34.00	74.61	32.98	3875	3788	3560	55	0.36
2017-18	2017	Domestic	98	Aug-17	Aug	412000068/24.07.2017	2/Aug/17	2/Aug/17	58	BACHRA	3797.20	3797.20	13.2	8.1	8.45	34.00	74.61	32.98	3875	3788	3560	55	0.36
2017-18	2017	Domestic	99	Aug-17	Aug	412000069/24.07.2017	2/Aug/17	2/Aug/17	58	BACHRA	3797.20	3797.20	13.2	8.1	8.45	34.00	74.61	32.98	3875	3788	3560	55	0.36
2017-18	2017	Domestic	100	Aug-17	Aug	412000070/24.07.2017	2/Aug/17	2/Aug/17	58	BACHRA	3797.20	3797.20	13.2	8.1	8.45	34.00	74.61	32.98	3875	3788	3560	55	0.36
2017-18	2017	Domestic	101	Aug-17	Aug	412000071/08.2017	5/Aug/17	5/Aug/17	58	BACHRA	3910.20	3549.20	13.69	6.04	6.82	31.2	77.29	35.13	3827	3467	4175	58	0.34
2017-18	2017	Domestic	102	Aug-17	Aug	412000072/08.2017	5/Aug/17	5/Aug/17	58	BACHRA	3910.20	3549.20	13.69	6.04	6.82	31.2	77.29	35.13	3827	3467	4175	58	0.34
2017-18	2017	Domestic	103	Aug-17	Aug	412000073/08.2017	5/Aug/17	5/Aug/17	58	BACHRA	3910.20	3549.20	13.69	6.04	6.82	31.2	77.29	35.13	3827	3467	4175	58	0.34
2017-18	2017	Domestic	104	Aug-17	Aug	412000074/08.2017	5/Aug/17	5/Aug/17	58	BACHRA	3910.20	3549.20	13.69	6.04	6.82	31.2	77.29	35.13	3827	3467	4175	58	0.34
2017-18	2017	Domestic	105	Aug-17	Aug	412000075/08.2017	5/Aug/17	5/Aug/17	58	BACHRA	3910.20	3549.20	13.69	6.04	6.82	31.2	77.29	35.13	3827	3467	4175	58	0.34
2017-18	2017	Domestic	106	Aug-17	Aug	412000076/08.2017	5/Aug/17	5/Aug/17	58	BACHRA	3910.20	3549.20	13.69	6.04	6.82	31.2	77.29	35.13	3827	3467	4175	58	0.34
2017-18	2017	Domestic	107	Aug-17	Aug	412000077/08.2017	5/Aug/17	5/Aug/17	58	BACHRA	3910.20	3549.20	13.69	6.04	6.82	31.2	77.29	35.13	3827	3467	4175	58	0.34
2017-18	2017	Domestic	108	Aug-17	Aug	412000078/08.2017	5/Aug/17	5/Aug/17	58	BACHRA	3910.20	3549.20	13.69	6.04	6.82	31.2	77.29	35.13	3827	3467	4175	58	0.34
2017-18	2017	Domestic	109	Aug-17	Aug	412000079/08.2017	5/Aug/17	5/Aug/17	58	BACHRA	3910.20	3549.20	13.69	6.04	6.82	31.2	77.29	35.13	3827	3467	4175	58	0.34
2017-18	2017	Domestic	110	Aug-17	Aug	412000080/08.2017	5/Aug/17	5/Aug/17	58	BACHRA	3910.20	3549.20	13.69	6.04	6.82	31.2	77.29	35.13	3827	3467	4175	58	0.34
2017-18	2017	Domestic	111	Aug-17	Aug	412000081/08.2017	5/Aug/17	5/Aug/17	58-2-36	BACHRA	3884.20	3884.20	17.05	2.18	2.18	31.74	26.64	39.17	4718	4001	4718	54	0.32
2017-18	2017	Domestic	112	Aug-17	Aug	412000082/08.2017	12/Aug/17	12/Aug/17	58	BACHRA	3770.90	3604.30	8.53	6.31	6.96	33.99	30.1	29.26	3646	3560	3621	58	0.34
2017-18	2017	Domestic	113	Aug-17	Aug	412000083/13.08.2017	13/Aug/17	13/Aug/17	58-2-56	BACHRA	3624.70	3624.70	13	7.13	7.88	32.88	29.34	30.31	3775	3536	4748	58	0.34
2017-18	2017	Domestic	114	Aug-17	Aug	412000084/13.08.2017	13/Aug/17	13/Aug/17	58-2-56	BACHRA	3624.70	3624.70	13	7.13	7.88	32.88	29.34	30.31	3775	3536	4748	58	0.34
2017-18	2017	Domestic	115	Aug-17	Aug	412000085/14.08.2017	14/Aug/17	14/Aug/17	58	BACHRA	3624.70	3624.70	13	7.13	7.88	32.88	29.34	30.31	3775	3536	4748	58	0.34
2017-18	2017	Domestic	116	Aug-17	Aug	412000086/14.08.2017	14/Aug/17	14/Aug/17	58	BACHRA	3624.70	3624.70	13	7.13	7.88	32.88	29.34	30.31	3775	3536	4748	58	0.34
2017-18	2017	Domestic	117	Aug-17	Aug	412000087/14.08.2017	14/Aug/17	14/Aug/17	58	BACHRA	3624.70	3624.70	13	7.13	7.88	32.88	29.34	30.31	3775	3536	4748	58	0.34
2017-18	2017	Domestic	118	Aug-17	Aug	412000088/14.08.2017	14/Aug/17	14/Aug/17	58	BACHRA	3624.70	3624.70	13	7.13	7.88	32.88	29.34	30.31	3775	3536	4748	58	0.34
2017-18	2017	Domestic	119	Aug-17	Aug	412000089/14.08.2017	14/Aug/17	14/Aug/17	58	BACHRA	3624.70	3624.70	13	7.13	7.88	32.88	29.34	30.31	3775	3536	4748	58	0.34
2017-18	2017	Domestic	120	Aug-17	Aug	412000090/14.08.2017	14/Aug/17	14/Aug/17	58	BACHRA	3624.70	3624.70	13	7.13	7.88	32.88	29.34	30.31	3775	3536	4748	58	0.34
2017-18	2017	Domestic	121	Aug-17	Aug	412000091/14.08.2017	14/Aug/17	14/Aug/17	58	BACHRA	3624.70	3624.70	13	7.13	7.88	32.88	29.34	30.31	3775	3536	4748	58	0.34
2017-18	2017	Domestic	122	Aug-17	Aug	412000092/14.08.2017	14/Aug/17	14/Aug/17	58	BACHRA	3624.70	3624.70	13	7.13	7.88	32.88	29.34	30.31	3775	3536	4748	58	0.34
2017-18	2017	Domestic	123	Aug-17	Aug	412000093/14.08.2017	14/Aug/17	14/Aug/17	58	BACHRA	3624.70	3624.70	13	7.13	7.88	32.88	29.34	30.31	3775	3536	4748	58	0.34
2017-18	2017	Domestic	124	Aug-17	Aug	412000094/14.08.2017	14/Aug/17	14/Aug/17	58	BACHRA	3624.70	3624.70	13	7.13	7.88	32.88	29.34	30.31	3775	3536	4748	58	0.34
2017-18	2017	Domestic	125	Aug-17	Aug	412000095/14.08.2017	14/Aug/17	14/Aug/17	58	BACHRA	3624.70	3624.70	13	7.13	7.88	32.88	29.34	30.31	3775	3536	4748	58	0.34
2017-18	2017	Domestic	126	Sep-17	Sep	412000096/25.08.2017	3/Sep/17	3/Sep/17	58	BACHRA	3868.85	3756.90	16.9	7.18	7.88	31.29	28.46	31.74	3935	3523	3906	58	0.32
2017-18	2017	Domestic	127	Sep-17	Sep	412000097/25.08.2017	3/Sep/17	3/Sep/17	58	BACHRA	3868.85	3756.90	16.9	7.18	7.88	31.29	28.46	31.74	3935	3523	3906	58	0.32
2017-18	2017	Domestic	128	Sep-17	Sep	412000098/30.08.2017	4/Sep/17	4/Sep/17	58	BACHRA	3908.60	3632.50	17.51	7.91	8.45	34.11	22.08	35.56	4283	3837	4238	54	0.34
2017-18	2017	Domestic	129	Sep-17	Sep	412000099/30.08.2017	4/Sep/17	4/Sep/17	58	BACHRA	3908.60	3632.50	17.51	7.91	8.45	34.11	22.08	35.56	4283	3837	4238	54	0.34
2017-18	2017	Domestic	130	Sep-17	Sep	412000100/30.08.2017	4/Sep/17	4/Sep/17	58	BACHRA	3908.60	3632.50	17.51	7.91	8.45	34.11	22.08	35.56	4283	3837	4238	54	0.34
2017-18	2017	Domestic	131	Sep-17	Sep	412000101/30.08.2017	4/Sep/17	4/Sep/17	58	BACHRA	3908.60	3632.50	17.51	7.91	8.45	34.11	22.08	35.56	4283	3837	4238	54	0.34
2017-18	2017	Domestic	132	Sep-17	Sep	412000102/30.08.2017	4/Sep/17	4/Sep/17	58	BACHRA	3908.60	3632.50	17.51	7.91	8.45	34.11	22.08	35.56	4283	3837	4238	54	0.34
2017-18	2017	Domestic	133	Sep-17	Sep	412000103/30.08.2017	4/Sep/17	4/Sep/17	58	BACHRA	3908.60	3632.50	17.51	7.91	8.45	34.11	22.08	35.56	4283	3837	4238	54	0.34
2017-18	2017																						

Annexure 7 (2 of 2) Feasibility Report_FGD

Year	Month	RR No./RR Date	Date of unloading	Date of Sampling	No. of Wagons	Source	RR Quantity (MT)	Received Quantity (MT)	TM (ARR) %	IM (ARR) %	EM (ARR) %	Ash (ARR) %	VMI (ARR) %	FC (ARR) %	GCY (ARR) kcal/kg	GCY (ARR) kcal/kg (Edited)	HGI (ARR) %	
2017-18	Sep-17	41200030/19.09.2017	24/Sep/17	24/Sep/17	58	PTRU	3882.20	3665.20	16.44	3.44	3.98	34	32.12	34.08	4276	3700	4752	56
2017-18	Sep-17	41200032/20.09.2017	25/Sep/17	25/Sep/17	58	PTRU	3821.70	3621.70	20.78	3.75	4.11	35.55	27.59	31.08	4190	3450	4174	56
2017-18	Sep-17	41200033/21.09.2017	25/Sep/17	25/Sep/17	60	BHKD	3800.10	3769.80	11.65	2.31	2.87	32.55	28.79	36.07	4280	3871	4255	58
2017-18	Sep-17	41200031/21.09.2017	25/Sep/17	25/Sep/17	59	PTRU	3800.80	3514.10	13.4	3.46	4.06	33.55	26.73	35.92	4304	3638	4277	56
2017-18	Sep-17	41200039/22.09.2017	25/Sep/17	25/Sep/17	58	GOLA	4035.90	4035.90	13.02	2.37	3.01	31.97	29.04	36.32	4009	3978	4180	56
2017-18	Sep-17	41200033/23.09.2017	26/Sep/17	26/Sep/17	58	PTRU	3822.60	3649.08	16.11	3.23	3.85	30.93	27.88	37.62	4545	3900	4516	54
2017-18	Sep-17	41200034/23.09.2017	27/Sep/17	27/Sep/17	59	GOLA	3894.80	3851.70	8.63	2.83	3	34.05	30	35.79	4294	4015	4262	58
2017-18	Sep-17	41200034/23.09.2017	27/Sep/17	27/Sep/17	58	PTRU	3854.60	3451.60	16.38	3.25	3.96	33.54	27.76	35.11	4258	3680	4227	54
2017-18	Sep-17	41200034/23.09.2017	27/Sep/17	27/Sep/17	58	GOLA	4053.90	3995.00	8.35	1.88	2.45	32.25	25.73	39.81	4880	4559	4852	54
2017-18	Sep-17	41200035/24.09.2017	29/Sep/17	29/Sep/17	58	BHKD	3823.10	3817.20	11.42	2.48	3.11	33.48	28.43	42.21	3824	4194	4154	58
2017-18	Sep-17	41200035/24.09.2017	29/Sep/17	29/Sep/17	57	PTRU	3837.10	3358.00	17.09	3.14	3.98	33.02	26.51	36.59	4268	3653	4231	54
2017-18	Sep-17	41200036/25.09.2017	29/Sep/17	29/Sep/17	59	BARKAKANA	3432.30	3652.50	16.5	2.26	2.84	33.96	27.17	36.31	4362	3726	4336	58
2017-18	Sep-17	41200036/25.09.2017	29/Sep/17	29/Sep/17	57	PTRU	3749.20	3624.20	13.96	3.36	3.98	34.2	28.8	35.61	4280	3911	4293	58
2017-18	Sep-17	41200036/25.09.2017	29/Sep/17	29/Sep/17	58	PTRU	3828.80	3633.00	16	3.08	3.79	32.79	32.87	36.92	4002	3469	3973	60
2017-18	Sep-17	41200036/25.09.2017	29/Sep/17	29/Sep/17	58	BHKD	3813.00	3905.60	5.74	4.24	4.24	31.2	34.83	47.17	4156	4091	4118	58
2017-18	Sep-17	41200036/25.09.2017	29/Sep/17	29/Sep/17	58	GOLA	3930.80	3114.50	14.53	2.76	3.11	31.44	25.26	37.40	3287	3727	4172	60
2017-18	Sep-17	41200036/25.09.2017	29/Sep/17	29/Sep/17	58	PTRU	3762.80	3721.20	9.56	3.98	4.26	32.09	33.9	38.29	3606	3818	3818	58
2017-18	Sep-17	41200037/04.10.2017	7/Oct/17	7/Oct/17	58	BARKAKANA	3918.50	3750.60	7.68	1.56	1.97	31.24	24.98	41.88	5354	5021	5332	52
2017-18	Sep-17	41200037/04.10.2017	7/Oct/17	7/Oct/17	58	GOLA	3615.50	3518.10	5.7	1.43	1.89	31.42	23.16	43.67	5384	5131	5140	52
2017-18	Sep-17	41200037/04.10.2017	7/Oct/17	7/Oct/17	58	BARKAKANA	3957.70	3571.90	10.14	2.08	2.42	31.59	22.08	40.93	5011	4599	4994	54
2017-18	Sep-17	41200037/04.10.2017	7/Oct/17	7/Oct/17	58	BARKAKANA	3900.10	3900.10	8.24	1.6	2.11	33.46	27.23	42.37	5298	4940	5271	52
2017-18	Sep-17	41200037/04.10.2017	7/Oct/17	7/Oct/17	58	BHKD	3650.80	3522.90	6.02	5.55	5.97	34.82	27.71	31.78	4020	3992	3994	56
2017-18	Sep-17	41200037/04.10.2017	7/Oct/17	7/Oct/17	58	BARKAKANA	3957.70	3661.80	8.64	2.54	3.01	33.96	27.1	36.08	4353	4036	4332	58
2017-18	Sep-17	41200037/04.10.2017	7/Oct/17	7/Oct/17	58	BARKAKANA	3907.50	3741.70	7.77	1.65	1.98	31.69	27.29	47.11	4418	4695	56	
2017-18	Sep-17	41200037/04.10.2017	7/Oct/17	7/Oct/17	58	PTRU	3920.30	3920.30	9.79	2.79	3.12	33.29	35.93	37.69	3500	3468	3488	60
2017-18	Sep-17	41200037/04.10.2017	7/Oct/17	7/Oct/17	59	PTRU	3844.60	3709.40	15.63	2.6	3	33.61	19.94	35.49	4250	3681	4239	58
2017-18	Sep-17	41200037/04.10.2017	7/Oct/17	7/Oct/17	58	BARKAKANA	3895.60	3759.50	10.04	2.84	3.12	32.13	27.37	38.54	4651	4772	4648	54
2017-18	Sep-17	41200037/04.10.2017	7/Oct/17	7/Oct/17	58	BHKD	3907.20	3973.30	9.65	2.89	3.02	31.69	32.68	41.00	3818	4098	3676	58
2017-18	Sep-17	41200037/04.10.2017	7/Oct/17	7/Oct/17	59	BARKAKANA	3939.80	3753.20	10.34	1.78	2.11	32.83	26.48	48.59	4436	4843	52	
2017-18	Sep-17	41200037/04.10.2017	7/Oct/17	7/Oct/17	58	GOLA	3737.80	3718.30	7.2	2.11	2.28	32.18	30.24	35.15	4331	4106	4323	56
2017-18	Sep-17	41200037/04.10.2017	7/Oct/17	7/Oct/17	58	BHKD	3920.70	3952.80	10.14	3.16	3.55	33.69	29.69	33.12	4085	3791	4059	56
2017-18	Sep-17	41200037/04.10.2017	7/Oct/17	7/Oct/17	59	BARKAKANA	3940.80	3517.60	13.09	2.16	2.56	34.17	34.48	33.91	3515	3122	3497	60
2017-18	Sep-17	41200037/04.10.2017	7/Oct/17	7/Oct/17	58	GOLA	3938.10	3708.70	14.31	2.95	2.97	34	33.55	29.8	3680	3236	3684	58
2017-18	Sep-17	41200037/04.10.2017	7/Oct/17	7/Oct/17	58	BACHRA	3923.70	3968.60	10.3	4.37	5.02	30.79	28.85	35.63	4725	3963	4196	54
2017-18	Sep-17	41200037/04.10.2017	7/Oct/17	7/Oct/17	58	GOLA	3730.90	3617.60	14.93	2.57	2.98	33	33.07	31.08	3538	3089	3523	60
2017-18	Sep-17	41200037/04.10.2017	7/Oct/17	7/Oct/17	58	BHKD	3792.20	3718.30	7.2	2.43	3.11	33.54	29.86	33.85	4082	3883	4054	58
2017-18	Sep-17	41200037/04.10.2017	7/Oct/17	7/Oct/17	59	GOLA	3895.80	3830.80	14.65	2.59	3.05	34.45	34.66	30	3340	2832	3324	60
2017-18	Sep-17	41200037/04.10.2017	7/Oct/17	7/Oct/17	59	BHKD	3641.80	3597.20	7.93	2.66	3.23	32.76	33.71	31.09	3681	3620	3605	56
2017-18	Sep-17	41200037/04.10.2017	7/Oct/17	7/Oct/17	59	GOLA	3796.60	3719.00	16.55	2.87	3	31.27	33.18	31.98	3808	3272	3791	56
2017-18	Sep-17	41200037/04.10.2017	7/Oct/17	7/Oct/17	58	GOLA	3816.80	3688.80	12.92	2.4	3.45	35.96	33.8	30.8	3716	3315	3676	58
2017-18	Sep-17	41200037/04.10.2017	7/Oct/17	7/Oct/17	58	BACHRA	3954.80	3984.00	12.56	3.5	4.26	31.76	33.02	31.36	3906	3539	3875	54
2017-18	Sep-17	41200037/04.10.2017	7/Oct/17	7/Oct/17	58	BACHRA	3724.30	3670.50	11.69	3.6	4.1	32.67	32.43	30.92	4350	3479	3830	52
2017-18	Sep-17	41200037/04.10.2017	7/Oct/17	7/Oct/17	58	GOLA	3954.40	3792.90	14.47	1.99	2.13	33.87	30.55	33.29	3954	3451	3948	56
2017-18	Sep-17	41200037/04.10.2017	7/Oct/17	7/Oct/17	58	GOLA	3799.50	3626.70	14.93	2.01	2.82	31.48	30.57	35.62	4085	3546	4051	54
2017-18	Sep-17	41200037/04.10.2017	7/Oct/17	7/Oct/17	59	GOLA	3809.40	3655.80	17	3.06	3.59	32.12	32.24	22.28	3930	3466	3889	56
2017-18	Sep-17	41200037/04.10.2017	7/Oct/17	7/Oct/17	59	BARKAKANA	3931.90	3891.30	11.9	2.57	3.27	34	28.9	33.83	3929	3567	3917	54
2017-18	Sep-17	41200037/04.10.2017	7/Oct/17	7/Oct/17	58	BARKAKANA	3940.80	3966.80	15.23	2.82	3.44	31.56	30.3	35	4228	3688	4201	52
2017-18	Sep-17	41200037/04.10.2017	7/Oct/17	7/Oct/17	59	GOLA	3808.30	3526.60	13.59	3.35	3.81	33.32	33.02	32.78	3989	3566	3970	52
2017-18	Sep-17	41200037/04.10.2017	7/Oct/17	7/Oct/17	58	BACHRA	3942.80	3470.10	10.98	4.46	4.58	31.43	33.58	30.73	3929	3651	3924	50
2017-18	Sep-17	41200037/04.10.2017	7/Oct/17	7/Oct/17	58	BRRB	3962.90	3725.20	14.59	4.24	4.78	35.53	33.02	26.29	4625	3233	3645	54
2017-18	Sep-17	41200037/04.10.2017	7/Oct/17	7/Oct/17	59	GOLA	3669.70	3496.20	14.76	3.11	3.88	33.68	30.79	31.82	3980	3501	3848	54
2017-18	Sep-17	41200037/04.10.2017	7/Oct/17	7/Oct/17	58	BACHRA	3846.80	3528.80	11.65	4.11	4.51	31.88	32.62	30.78	3688	3706	3981	50
2017-18	Sep-17	41200037/04.10.2017	7/Oct/17	7/Oct/17	58	BRRB	3770.00	3526.60	13.38	4.01	4.69	33.63	32.97	29.06	3612	3440	3785	54
2017-18	Sep-17	41200037/04.10.2017	7/Oct/17	7/Oct/17	58	BRRB	3740.70	3465.30	15.01	5.06	5.56	33.42	33.54	31.66	3985	3597	3967	54
2017-18	Sep-17	41200037/04.10.2017	7/Oct/17	7/Oct/17	58													

Annexure 7 (2 of 2) Feasibility Report_FGD

FY	Year	Imported	Pale No.	Month-date	Month	RR No/RR Date	Date of unloading	Date of Sampling	No. of Wagons	Source	RR Quantity (MT)	Resubst Quantity (MT)	TM (hrs)	IM (ADB) %	IM %	Ash (ADB) %	VM (ADB) %	FC (ADB) %	GCY (ADB) Kcal/Kg	GCY Kcal/Kg (Eqdkg)	HGI	%	
2017-18	2017	Domestic	225	Nov-17	Nov	412000067/18.11.2017	22/Nov/17	22/Nov/17	59	RRRB	3276.90	3140.90	3.62	4.17	4.64	31.75	34.77	28.99	3453	3907	54	2.51	
2017-18	2017	Domestic	226	Nov-17	Nov	412000068/18.11.2017	23/Nov/17	23/Nov/17	58	BACHRA	3523.30	3385.80	9.4	5.64	6.09	32.33	36.61	27.1	3397	3194	56	2.32	
2017-18	2017	Domestic	227	Nov-17	Nov	412000069/18.11.2017	23/Nov/17	23/Nov/17	59	GOLA	4168.70	3995.50	7.32	3.39	4.09	30.77	31.67	39.20	3769	3901	50	2.56	
2017-18	2017	Domestic	228	Nov-17	Nov	412000068/18.11.2017	23/Nov/17	23/Nov/17	59	RRRB	3353.50	3108.10	12.89	4.39	4.89	33.41	33.46	28.41	3777	3441	57	2.19	
2017-18	2017	Domestic	229	Nov-17	Nov	412000070/20.11.2017	24/Nov/17	24/Nov/17	58	RRRB	3649.50	3398.70	14.35	4.02	4.52	32	34	29.66	4080	4039	54	2.32	
2017-18	2017	Domestic	230	Nov-17	Nov	412000072/21.11.2017	24/Nov/17	24/Nov/17	59	BARKAKANA	3643.50	3743.90	8.68	1.41	2.3	32.44	37.84	27.99	3000	3210	50	2.38	
2017-18	2017	Domestic	231	Nov-17	Nov	412000055/21.11.2017	24/Nov/17	24/Nov/17	58	VAA	3543.00	3522.60	14.17	3.4	3.98	29.84	31.4	35.01	4255	3779	53	2.52	
2017-18	2017	Domestic	232	Nov-17	Nov	412000055/21.11.2017	24/Nov/17	24/Nov/17	58	RRRB	3646.70	3327.70	14.25	2.93	3.41	34.95	30.89	30.61	3836	3477	3917	53	2.52
2017-18	2017	Domestic	233	Nov-17	Nov	412000085/23.11.2017	25/Nov/17	25/Nov/17	58	RRRB	3646.70	3327.70	14.25	2.93	3.41	34.95	30.89	30.61	3836	3477	3917	53	2.52
2017-18	2017	Domestic	234	Nov-17	Nov	412000085/23.11.2017	25/Nov/17	25/Nov/17	59	VAA	3773.1	3564.60	9.66	1.50	3.42	34.10	15.82	48.24	3252	3204	3189	59	2.34
2017-18	2017	Domestic	241	Dec-17	Dec	412000076/26.11.2017	26/Nov/17	26/Nov/17	59	GOLA	3868.4	3876.50	2.96	5.10	4.01	33.49	19.73	41.33	3752	3572	4008	59	2.15
2017-18	2017	Domestic	242	Dec-17	Dec	412000076/26.11.2017	26/Nov/17	26/Nov/17	58	RRRB	3581.8	3374.10	14.54	6.38	4.25	32.38	24.03	36.96	3714	3360	3798	55	2.55
2017-18	2017	Domestic	243	Dec-17	Dec	412000076/26.11.2017	26/Nov/17	26/Nov/17	58	RRRB	3398.9	3243.10	13.70	6.86	4.61	31.97	21.92	58.91	3984	3701	4030	58	2.54
2017-18	2017	Domestic	244	Dec-17	Dec	412000086/30.11.2017	4/Dec/17	4/Dec/17	58	BACHRA	3951.6	3896.80	12.07	6.30	3.41	31.77	22.30	59.41	3768	3596	3884	58	2.52
2017-18	2017	Domestic	245	Dec-17	Dec	412000091/03.12.2017	6/Dec/17	6/Dec/17	58	KAS	3331.3	3891.60	10.62	3.91	4.18	31.25	19.07	45.60	3117	2896	3105	60	2.16
2017-18	2017	Domestic	246	Dec-17	Dec	412000095/02.12.2017	6/Dec/17	6/Dec/17	58	RRRB	3647.6	3693.50	11.80	4.65	5.02	34.63	22.00	38.85	3578	3340	3845	58	2.18
2017-18	2017	Domestic	247	Dec-17	Dec	412000087/03.12.2017	7/Dec/17	7/Dec/17	58	BACHRA	3647.6	3693.50	11.80	4.65	5.02	34.63	22.00	38.85	3578	3340	3845	58	2.18
2017-18	2017	Domestic	248	Dec-17	Dec	412000095/05.12.2017	8/Dec/17	8/Dec/17	58	RRRB	3654.2	3466.40	4.44	0.95	1.16	29.98	15.65	53.78	3375	3266	3688	62	2.44
2017-18	2017	Domestic	249	Dec-17	Dec	412000095/05.12.2017	8/Dec/17	8/Dec/17	59	VAA	3635.1	3453.80	15.30	2.95	3.55	31.98	11.65	60.14	3946	3444	3922	58	2.28
2017-18	2017	Domestic	250	Dec-17	Dec	412000096/07.12.2017	9/Dec/17	9/Dec/17	59	BHGD	3823.1	3553.90	3.01	3.20	3.34	33.89	16.30	48.44	3435	3372	3430	61	2.26
2017-18	2017	Domestic	251	Dec-17	Dec	412000096/07.12.2017	9/Dec/17	9/Dec/17	58	RRRB	3883.3	3492.40	14.05	4.57	4.96	33.72	21.47	45.76	4076	3715	4108	54	2.34
2017-18	2017	Domestic	252	Dec-17	Dec	412000096/07.12.2017	9/Dec/17	9/Dec/17	59	GOLA	3883.3	3492.40	14.05	4.57	4.96	33.72	21.47	45.76	4076	3715	4108	54	2.34
2017-18	2017	Domestic	253	Dec-17	Dec	412000099/10.12.2017	12/Dec/17	12/Dec/17	58	RRRB	3883.3	3492.40	14.05	4.57	4.96	33.72	21.47	45.76	4076	3715	4108	54	2.34
2017-18	2017	Domestic	254	Dec-17	Dec	412000099/10.12.2017	12/Dec/17	12/Dec/17	58	RRRB	3883.3	3492.40	14.05	4.57	4.96	33.72	21.47	45.76	4076	3715	4108	54	2.34
2017-18	2017	Domestic	255	Dec-17	Dec	412000099/10.12.2017	12/Dec/17	12/Dec/17	59	GOLA	3883.3	3492.40	14.05	4.57	4.96	33.72	21.47	45.76	4076	3715	4108	54	2.34
2017-18	2017	Domestic	256	Dec-17	Dec	412000099/10.12.2017	12/Dec/17	12/Dec/17	58	RRRB	3883.3	3492.40	14.05	4.57	4.96	33.72	21.47	45.76	4076	3715	4108	54	2.34
2017-18	2017	Domestic	257	Dec-17	Dec	412000099/10.12.2017	12/Dec/17	12/Dec/17	58	RRRB	3883.3	3492.40	14.05	4.57	4.96	33.72	21.47	45.76	4076	3715	4108	54	2.34
2017-18	2017	Domestic	258	Dec-17	Dec	412000099/10.12.2017	12/Dec/17	12/Dec/17	58	RRRB	3883.3	3492.40	14.05	4.57	4.96	33.72	21.47	45.76	4076	3715	4108	54	2.34
2017-18	2017	Domestic	259	Dec-17	Dec	412000099/10.12.2017	12/Dec/17	12/Dec/17	58	RRRB	3883.3	3492.40	14.05	4.57	4.96	33.72	21.47	45.76	4076	3715	4108	54	2.34
2017-18	2017	Domestic	260	Dec-17	Dec	412000099/10.12.2017	12/Dec/17	12/Dec/17	58	RRRB	3883.3	3492.40	14.05	4.57	4.96	33.72	21.47	45.76	4076	3715	4108	54	2.34
2017-18	2017	Domestic	261	Dec-17	Dec	412000099/10.12.2017	12/Dec/17	12/Dec/17	58	RRRB	3883.3	3492.40	14.05	4.57	4.96	33.72	21.47	45.76	4076	3715	4108	54	2.34
2017-18	2017	Domestic	262	Dec-17	Dec	412000099/10.12.2017	12/Dec/17	12/Dec/17	58	RRRB	3883.3	3492.40	14.05	4.57	4.96	33.72	21.47	45.76	4076	3715	4108	54	2.34
2017-18	2017	Domestic	263	Dec-17	Dec	412000099/10.12.2017	12/Dec/17	12/Dec/17	58	RRRB	3883.3	3492.40	14.05	4.57	4.96	33.72	21.47	45.76	4076	3715	4108	54	2.34
2017-18	2017	Domestic	264	Dec-17	Dec	412000099/10.12.2017	12/Dec/17	12/Dec/17	58	RRRB	3883.3	3492.40	14.05	4.57	4.96	33.72	21.47	45.76	4076	3715	4108	54	2.34
2017-18	2017	Domestic	265	Dec-17	Dec	412000099/10.12.2017	12/Dec/17	12/Dec/17	58	RRRB	3883.3	3492.40	14.05	4.57	4.96	33.72	21.47	45.76	4076	3715	4108	54	2.34
2017-18	2017	Domestic	266	Dec-17	Dec	412000099/10.12.2017	12/Dec/17	12/Dec/17	58	RRRB	3883.3	3492.40	14.05	4.57	4.96	33.72	21.47	45.76	4076	3715	4108	54	2.34
2017-18	2017	Domestic	267	Dec-17	Dec	412000099/10.12.2017	12/Dec/17	12/Dec/17	58	RRRB	3883.3	3492.40	14.05	4.57	4.96	33.72	21.47	45.76	4076	3715	4108	54	2.34
2017-18	2017	Domestic	268	Dec-17	Dec	412000099/10.12.2017	12/Dec/17	12/Dec/17	58	RRRB	3883.3	3492.40	14.05	4.57	4.96	33.72	21.47	45.76	4076	3715	4108	54	2.34
2017-18	2017	Domestic	269	Dec-17	Dec	412000099/10.12.2017	12/Dec/17	12/Dec/17	58	RRRB	3883.3	3492.40	14.05	4.57	4.96	33.72	21.47	45.76	4076	3715	4108	54	2.34
2017-18	2017	Domestic	270	Dec-17	Dec	412000099/10.12.2017	12/Dec/17	12/Dec/17	58	RRRB	3883.3	3492.40	14.05	4.57	4.96	33.72	21.47	45.76	4076	3715	4108	54	2.34
2017-18	2017	Domestic	271	Dec-17	Dec	412000099/10.12.2017	12/Dec/17	12/Dec/17	58	RRRB	3883.3	3492.40	14.05	4.57	4.96	33.72	21.47	45.76	4076	3715	4108	54	2.34
2017-18	2017	Domestic	272	Dec-17	Dec	412000099/10.12.2017	12/Dec/17	12/Dec/17	58	RRRB	3883.3	3492.40	14.05	4.57	4.96	33.72	21.47	45.76	4076	3715	4108	54	2.34
2017-18	2017	Domestic	273	Dec-17	Dec	412000099/10.12.2017	12/Dec/17	12/Dec/17	58	RRRB	3883.3	3492.40	14.05	4.57	4.96	33.72	21.47	45.76	4076	3715	4108	54	2.34
2017-18	2017	Domestic	274	Dec-17	Dec	412000099/10.12.2017	12/Dec/17	12/Dec/17	58	RRRB	3883.3	3492.40	14.05	4.57	4.96	33.72	21.47	45.76	4076	3715	4108	54	2.34
2017-18	2017	Domestic	275	Dec-17	Dec	412000099/10.12.2017	12/Dec/17	12/Dec/17	58	RRRB	3883.3	3492.40	14.05	4.57	4.96	33.72	21.47	45.76	4076	3715	4108	54	2.34
2017-18	20																						

Annexure 7 (2 of 2) Feasibility Report_FGD

FY	Year	Imported	Date No	Month-date	Month	RR No/RR Date	Date of unloading	Date of Sampling	No. of Weigha	Source	RR Quantity (MT)	Received Quantity (MT)	TM (ARR) %	IM (ARR) %	EM %	Ash (ADB) %	VMI (ADB) %	FC %	GCY (ADB) kcal/lq	GCY (ARR) kcal/lq	GCY (ADB) kcal/lq	HGI	\$ %
2017-18	2018	Domestic	284	Jan-18	Jan	41200001/02.01.2018	31/Jan/18	31/Jan/18	59	VAA	3553.3	3238.00	4.55	1.05	2.13	35.01	14.26	41.24	2851	2851	2851	63	0.28
2017-18	2018	Domestic	285	Feb-18	Feb	41200002/28.01.2018	1/Feb/18	1/Feb/18	59	VAA	3551.0	3390.30	2.68	1.42	2.01	34.04	14.99	49.21	3418	3384	3384	55	0.34
2017-18	2018	Domestic	296	Feb-18	Feb	41200006/27.01.2018	2/feb/18	2/feb/18	59	KRSL	4011.60	3701.90	11.37	3.34	4.21	31.02	22.22	42.93	3896	4211	4211	52	0.49
2017-18	2018	Domestic	297	Feb-18	Feb	41200007/24.01.2018	6/feb/18	6/feb/18	59	VAA	4078.60	3947.90	8.32	1.07	1.98	33.72	15.52	49.41	3435	3182	3182	42.02	0.33
2017-18	2018	Domestic	298	Feb-18	Feb	41200008/20.02.2018	7/feb/18	7/feb/18	59	PTRU	3804.0	3519.80	14.03	2.17	3.49	32.46	17.42	47.66	3513	3027	3027	47.76	0.29
2017-18	2018	Domestic	299	Feb-18	Feb	41200009/10.02.2018	11/feb/18	11/feb/18	59	PTRU	3812.9	3522.40	13.60	1.68	2.96	34.67	22.69	40.42	3428	3022	3022	33.94	0.30
2017-18	2018	Domestic	300	Feb-18	Feb	41200010/05.02.2018	8/feb/18	8/feb/18	57	VAA	3952.8	3899.60	5.63	1.19	1.16	30.91	15.80	51.74	3654	3490	3490	36.33	0.36
2017-18	2018	Domestic	301	Feb-18	Feb	41200011/04.02.2018	9/feb/18	9/feb/18	58	PTRU	3920.6	3394.80	13.36	2.84	3.20	32.30	17.96	47.34	3288	2917	2917	60	0.35
2017-18	2018	Domestic	302	Feb-18	Feb	41200008/08.02.2018	11/feb/18	11/feb/18	58	KRSL	3956.60	3610.70	13.14	3.96	4.28	32.68	22.81	40.22	3773	3452	3452	37.60	0.33
2017-18	2018	Domestic	303	Feb-18	Feb	41200005/07.02.2018	13/feb/18	13/feb/18	59	VAA	3773.10	3426.60	6.78	2.27	2.97	33.45	17.22	46.74	3849	3671	3671	38.21	0.32
2017-18	2018	Domestic	304	Feb-18	Feb	41200009/09.02.2018	13/feb/18	13/feb/18	58	KRSL	3881.10	3662.40	14.65	3.30	3.85	33.69	20.46	42.19	3687	3254	3254	36.66	0.36
2017-18	2018	Domestic	305	Feb-18	Feb	41200007/09.02.2018	13/feb/18	13/feb/18	59	GOLA	4229.9	4127.40	13.38	2.80	3.55	31.84	18.82	46.22	3440	3066	3066	34.13	0.32
2017-18	2018	Domestic	306	Feb-18	Feb	41200007/10.02.2018	14/feb/18	14/feb/18	59	VAA	3711.2	3711.20	4.41	1.02	1.02	33.51	17.58	44.21	3350	3350	3350	62	0.35
2017-18	2018	Domestic	307	Feb-18	Feb	41200008/11.02.2018	13/feb/18	13/feb/18	59	VAA	2704.2	2704.20	4.25	3.14	2.86	31.71	24.17	40.53	3993	4051	4051	54	0.33
2017-18	2018	Domestic	308	Feb-18	Feb	41200005/11.02.2018	13/feb/18	13/feb/18	59	GOLA	3600.3	3485.50	11.92	3.23	3.33	33.41	20.94	49.23	3702	3390	3390	57	0.31
2017-18	2018	Domestic	309	Feb-18	Feb	41200008/13.02.2018	17/feb/18	17/feb/18	58	PTRU	3916.2	3681.60	11.58	2.85	3.19	33.01	20.63	48.19	3729	2711	2711	29.69	0.32
2017-18	2018	Domestic	310	Feb-18	Feb	41200009/14.02.2018	18/feb/18	18/feb/18	59	GOLA	3951.5	3846.60	13.93	2.36	3.64	33.78	20.79	42.70	4023	3546	3546	54	0.37
2017-18	2018	Domestic	311	Feb-18	Feb	41200017/13.02.2018	19/feb/18	19/feb/18	57	RRB	3484.6	3307.40	15.41	3.64	3.84	30.63	26.20	39.21	4112	3610	3610	41.03	0.32
2017-18	2018	Domestic	312	Feb-18	Feb	41200008/14.02.2018	20/feb/18	20/feb/18	59	PTRU	3799.9	3300.30	11.74	2.80	3.26	32.07	17.98	46.85	3401	3088	3088	33.85	0.29
2017-18	2018	Domestic	313	Feb-18	Feb	41200008/16.02.2018	20/feb/18	20/feb/18	59	GOLA	3833.1	3685.60	11.02	2.13	2.86	32.75	20.90	44.29	3712	3375	3375	36.81	0.33
2017-18	2018	Domestic	314	Feb-18	Feb	41200009/16.02.2018	20/feb/18	20/feb/18	59	GOLA	3866.3	3597.70	12.81	2.08	3.06	33.93	21.40	42.24	3638	3417	3417	38.00	0.35
2017-18	2018	Domestic	315	Feb-18	Feb	41200005/17.02.2018	20/feb/18	20/feb/18	58	PTRU	3902.3	3618.80	10.32	2.81	2.41	34.94	21.65	40.26	3812	3317	3317	38.28	0.34
2017-18	2018	Domestic	316	Feb-18	Feb	41200005/17.02.2018	21/feb/18	21/feb/18	58	PTRU	3686.1	3621.30	13.89	3.54	4.03	33.22	25.19	37.72	3861	3447	3447	38.41	0.33
2017-18	2018	Domestic	317	Feb-18	Feb	41200018/17.02.2018	21/feb/18	21/feb/18	59	RRB	3816.5	3669.70	13.66	3.21	3.69	34.03	24.26	38.15	3684	3433	3433	38.95	0.35
2017-18	2018	Domestic	318	Feb-18	Feb	41200018/17.02.2018	21/feb/18	21/feb/18	59	RRB	3689.2	3589.00	12.46	4.21	4.20	32.89	23.00	39.88	3684	3635	3635	39.95	0.32
2017-18	2018	Domestic	319	Feb-18	Feb	41200010/20.02.2018	26/feb/18	26/feb/18	58	RRB	3683.3	3598.10	13.07	4.14	4.84	31.19	21.68	41.93	3696	3656	3656	39.70	0.34
2017-18	2018	Domestic	320	Feb-18	Feb	41200012/20.02.2018	26/feb/18	26/feb/18	59	NTE	3683.3	3598.10	13.07	4.14	4.84	31.19	21.68	41.93	3696	3656	3656	39.70	0.34
2017-18	2018	Domestic	321	Feb-18	Feb	41200017/23.02.2018	26/feb/18	26/feb/18	59	NTE	4067.2	3907.30	9.65	4.01	3.46	30.86	26.38	39.46	3976	3742	3742	39.99	0.29
2017-18	2018	Domestic	322	Feb-18	Feb	41200017/23.02.2018	26/feb/18	26/feb/18	59	GOLA	3893.8	3724.10	13.88	3.24	2.18	33.10	20.46	43.86	3737	3284	3284	37.01	0.34
2017-18	2018	Domestic	323	Feb-18	Feb	41200019/23.02.2018	26/feb/18	26/feb/18	59	MHDA	4108.8	3889.20	8.85	2.16	2.83	32.84	21.14	43.55	4296	4002	4002	42.67	0.31
2017-18	2018	Domestic	324	Feb-18	Feb	41200011/24.02.2018	27/feb/18	27/feb/18	57	RRB	3529.7	3490.30	11.76	3.63	3.98	34.01	25.30	36.31	3759	3442	3442	37.45	0.34
2017-18	2018	Domestic	325	Feb-18	Feb	41200012/25.02.2018	28/feb/18	28/feb/18	58	RRB	3780.0	3656.70	10.73	3.86	4.05	34.14	25.37	36.31	3759	3402	3402	37.42	0.32
2017-18	2018	Domestic	326	Feb-18	Feb	41200022/26.02.2018	2/Mar/18	2/Mar/18	58	MHDA	3765.6	3555.40	11.08	3.80	4.16	34.27	24.94	36.67	3700	3420	3420	36.86	0.32
2017-18	2018	Domestic	327	Mar-18	Mar	41200021/01.03.2018	4/Mar/18	4/Mar/18	58	NTE	3683.2	3699.00	11.44	3.16	2.97	33.38	22.93	41.65	3705	3340	3340	36.86	0.27
2017-18	2018	Domestic	328	Mar-18	Mar	41200005/02.03.2018	5/Mar/18	5/Mar/18	59	PTRU	3884.3	3493.20	11.95	2.33	3.27	33.38	22.93	41.65	3705	3340	3340	36.86	0.27
2017-18	2018	Domestic	329	Mar-18	Mar	41200002/03.03.2018	5/Mar/18	5/Mar/18	59	GOLA	3946.7	3714.30	12.94	2.25	3.01	34.00	21.95	41.46	3881	3457	3457	38.51	0.31
2017-18	2018	Domestic	330	Mar-18	Mar	41200003/03.03.2018	5/Mar/18	5/Mar/18	59	GOLA	3946.7	3714.30	12.94	2.25	3.01	34.00	21.95	41.46	3881	3457	3457	38.51	0.31
2017-18	2018	Domestic	331	Mar-18	Mar	41200007/03.03.2018	6/Mar/18	6/Mar/18	59	GOLA	3946.7	3714.30	12.94	2.25	3.01	34.00	21.95	41.46	3881	3457	3457	38.51	0.31
2017-18	2018	Domestic	332	Mar-18	Mar	41200005/03.03.2018	6/Mar/18	6/Mar/18	58	PTRU	3872.7	3502.80	10.45	2.26	2.01	32.73	21.21	43.47	3648	3269	3269	57	0.35
2017-18	2018	Domestic	333	Mar-18	Mar	41200007/03.03.2018	6/Mar/18	6/Mar/18	58	RRB	3819.4	3633.70	13.18	3.46	3.49	30.58	25.66	39.98	4086	3675	3675	40.85	0.32
2017-18	2018	Domestic	334	Mar-18	Mar	41200012/06.03.2018	7/Mar/18	7/Mar/18	58	RRB	3450.3	3386.40	12.72	3.50	3.63	31.53	25.14	39.49	4162	3764	3764	41.56	0.34
2017-18	2018	Domestic	335	Mar-18	Mar	41200012/06.03.2018	7/Mar/18	7/Mar/18	58	RRB	3993.9	3894.50	11.58	1.67	1.46	34.89	22.75	41.32	4030	3624	3624	39.98	0.37
2017-18	2018	Domestic	336	Mar-18	Mar	41200012/06.03.2018	7/Mar/18	7/Mar/18	59	GOLA	3893.3	3684.30	11.05	1.46	1.86	34.68	22.49	40.99	4012	3622	3622	39.92	0.38
2017-18	2018	Domestic	337	Mar-18	Mar	41200011/12.03.2018	29/Mar/18	29/Mar/18	59	GOLA	4091.2	3845.80	13.44	1.40	1.88	34.69	22.42	41.14	3821	3393	3393	36.02	0.34
2017-18	2018	Domestic	338	Apr-18	Apr	41200011/12.03.2018	29/Mar/18	29/Mar/18	59	GOLA	4091.2	3845.80	13.44	1.40									

Annexure 7 (2 of 2)_Feasibility Report_FGD

FY	Year	Imported	Rate	Month-date	month	RR No/RR Date	Date of unloading	Date of Sampling	No. of Wagon	Source	RR Quantity (MT)	Received Quantity (MT)	TR (ARR)	IM (ARR)	EM %	Adh (ARR) %	VM (ARR) %	FC (ARR) %	GCV (ARR) Kcal/Kg	GCV (ARR) Kcal/Kg	GCV (ARR) Kcal/Kg	HGI %	S %
2018-19	2018	Domestic	362	Apr-18	Apr	41200021/14.04.2018	19/Apr/18	19/Apr/18	59	HTE	3800.1	3770.80	12.76	1.68	2.81	32.96	21.03	43.66	3903	3474	3870	53	0.37
2018-19	2018	Domestic	363	Apr-18	Apr	41200022/15.04.2018	19/Apr/18	19/Apr/18	59	GOLA	3849.9	3806.10	23.05	4.38	3.84	31.60	27.51	36.16	4866	4425	4904	50	0.35
2018-19	2018	Domestic	364	Apr-18	Apr	41200023/15.04.2018	19/Apr/18	19/Apr/18	57+1	PTRU	3919.3	3707.10	13.35	1.60	1.86	32.61	24.28	41.19	4006	3574	3995	51	0.32
2018-19	2018	Domestic	365	Apr-18	Apr	41200024/15.04.2018	20/Apr/18	20/Apr/18	57+1	KKAS	3723.8	3655.80	12.56	4.25	4.75	37.99	29.17	39.31	4865	4443	4840	52	0.34
2018-19	2018	Domestic	366	Apr-18	Apr	41200025/15.04.2018	21/Apr/18	21/Apr/18	59	GOLA	3949.3	3861.90	13.33	3.73	3.81	32.00	28.47	39.49	4847	4328	4843	54	0.31
2018-19	2018	Domestic	367	Apr-18	Apr	41200026/15.04.2018	21/Apr/18	21/Apr/18	59	PTRU	3917.7	3861.90	11.04	3.66	3.71	34.00	28.8	35.25	4855	4423	4843	54	0.31
2018-19	2018	Domestic	368	Apr-18	Apr	41200027/15.04.2018	21/Apr/18	21/Apr/18	59	HTE	3782.7	3665.10	10.53	2.20	2.84	33.90	19.68	44.82	3514	3700	3481	59	0.34
2018-19	2018	Domestic	370	Apr-18	Apr	41200029/15.04.2018	22/Apr/18	22/Apr/18	58	GOLA	3904.7	3848.80	12.88	3.41	3.46	31.00	29.07	36.31	4850	4360	4642	58	0.31
2018-19	2018	Domestic	371	Apr-18	Apr	41200030/15.04.2018	22/Apr/18	22/Apr/18	58	GOLA	3983.6	3933.80	12.82	1.51	1.67	32.69	20.7	44.92	3808	3864	3791	58	0.38
2018-19	2018	Domestic	372	Apr-18	Apr	41200031/15.04.2018	23/Apr/18	23/Apr/18	58	KKAS	3420.6	3349.60	11.42	2.33	2.64	31.57	24.62	40.99	5169	4638	5153	57	0.49
2018-19	2018	Domestic	373	Apr-18	Apr	41200032/15.04.2018	24/Apr/18	24/Apr/18	58	KKAS	3989.2	3959.20	7.89	1.26	1.48	33.70	21.62	49.74	3977	3729	3989	59	0.38
2018-19	2018	Domestic	374	Apr-18	Apr	41200033/15.04.2018	25/Apr/18	25/Apr/18	58	DUGDA	3761.3	3761.30	7.18	0.76	0.94	33.70	21.62	49.74	4142	3874	4134	58	0.41
2018-19	2018	Domestic	375	Apr-18	Apr	41200034/15.04.2018	26/Apr/18	26/Apr/18	58	KKAS	3547.6	3481.50	14.04	1.96	2.03	31.25	25.42	40.90	5619	4927	5615	48	0.47
2018-19	2018	Domestic	376	Apr-18	Apr	41200035/15.04.2018	26/Apr/18	26/Apr/18	58	KKAS	3905.1	3869.90	10.35	1.41	1.46	30.63	23.55	45.78	4413	3968	4411	54	0.42
2018-19	2018	Domestic	377	Apr-18	Apr	41200036/15.04.2018	27/Apr/18	28/Apr/18	58	GOLA	3691.6	3622.50	10.72	1.09	1.31	31.23	22.58	44.57	4977	4452	4956	51	0.42
2018-19	2018	Domestic	378	Apr-18	Apr	41200037/15.04.2018	27/Apr/18	27/Apr/18	57	BHND	3794.3	3569.90	12.80	1.84	2.09	35.41	27.64	41.63	5906	5158	4795	57	0.48
2018-19	2018	Domestic	379	Apr-18	Apr	41200038/15.04.2018	28/Apr/18	28/Apr/18	56	HTE	3741.2	3695.50	7.18	1.17	1.54	32.57	17.05	46.75	5300	4978	5280	54	0.46
2018-19	2018	Domestic	380	Apr-18	Apr	41200039/15.04.2018	29/Apr/18	29/Apr/18	55	KKAS	3897.3	3825.10	12.62	3.30	3.1	31.55	25.8	38.81	4877	4407	4887	53	0.44
2018-19	2018	Domestic	381	Apr-18	Apr	41200040/15.04.2018	29/Apr/18	29/Apr/18	58	GOLA	3896.7	3676.80	12.05	2.20	2.31	33.12	18.38	45.89	4606	4122	4801	55	0.41
2018-19	2018	Domestic	382	Apr-18	Apr	41200041/15.04.2018	30/Apr/18	30/Apr/18	58	KKAS	3957.0	3732.00	10.39	4.37	4.51	31.82	19.64	33.74	5469	5051	5465	56	0.43
2018-19	2018	Domestic	383	Apr-18	Apr	41200042/15.04.2018	30/Apr/18	30/Apr/18	58	GOLA	3969.1	3852.40	11.82	2.29	2.13	31.04	24.08	44.17	4485	3911	4488	55	0.42
2018-19	2018	Domestic	384	Apr-18	May	41200043/15.04.2018	1/May/18	1/May/18	58	PTRU	3935.4	3915.40	15.22	1.52	2.01	31.65	21.01	45.43	4384	4194	4270	58	0.42
2018-19	2018	Domestic	385	Apr-18	May	41200044/15.04.2018	2/May/18	2/May/18	58	BRMO	3912.3	3773.90	2.56	0.71	0.81	35.13	19.51	48.23	4274	4194	4270	58	0.42
2018-19	2018	Domestic	386	Apr-18	May	41200045/15.04.2018	3/May/18	3/May/18	58	BRMO	3601.5	3528.40	4.31	0.65	0.72	35.83	16.72	46.38	4243	4087	4240	57	0.41
2018-19	2018	Domestic	387	Apr-18	May	41200046/15.04.2018	4/May/18	4/May/18	59	BHMO	3889.4	3825.00	10.58	1.34	2.63	34.05	20.05	44.13	3844	3475	3784	57	0.43
2018-19	2018	Domestic	388	Apr-18	May	41200047/15.04.2018	11/May/18	12/May/18	58	HTE	3908.3	3842.80	9.90	2.64	2.96	34.69	22.8	39.56	3786	3504	3774	57	0.31
2018-19	2018	Domestic	389	Apr-18	May	41200048/15.04.2018	12/May/18	12/May/18	58	OSBK	3927.5	3927.50	12.70	1.77	1.35	30.71	21.46	45.67	4439	3945	4413	52	0.39
2018-19	2018	Domestic	390	Apr-18	May	41200049/15.04.2018	13/May/18	13/May/18	57	GOLA	3810.8	3588.70	33.05	2.13	3.13	39.15	21.84	42.84	4879	3466	3839	59	0.34
2018-19	2018	Domestic	391	Apr-18	May	41200050/15.04.2018	14/May/18	14/May/18	59	GOLA	3784.7	3775.90	10.85	2.84	3.64	32.87	22.8	41.12	3956	3650	3923	56	0.37
2018-19	2018	Domestic	392	Apr-18	May	41200051/15.04.2018	15/May/18	15/May/18	59	HTE	3962.0	3894.50	14.50	1.70	2.41	35.88	22.23	39.84	3855	3361	3827	54	0.35
2018-19	2018	Domestic	393	Apr-18	May	41200052/15.04.2018	15/May/18	16/May/18	59	GOLA	4045.5	3876.60	13.08	0.79	1.86	33.65	19.27	46.76	3748	3292	3717	58	0.32
2018-19	2018	Domestic	394	Apr-18	May	41200053/15.04.2018	16/May/18	17/May/18	58	GOLA	3958.6	3958.60	13.41	1.23	1.99	31.45	21.80	45.15	3796	3628	3767	57	0.37
2018-19	2018	Domestic	395	Apr-18	May	41200054/15.04.2018	17/May/18	17/May/18	58	LTBK	3922.8	3900.80	12.84	1.47	2.31	34.26	22.74	41.15	4094	3566	4000	59	0.38
2018-19	2018	Domestic	396	Apr-18	May	41200055/15.04.2018	18/May/18	18/May/18	58	OSBK	3911.1	3911.10	22.20	1.49	2.16	32.43	22.85	42.83	4172	3718	4144	52	0.40
2018-19	2018	Domestic	397	Apr-18	May	41200056/15.04.2018	18/May/18	18/May/18	59	HTE	3862.4	3773.50	8.42	2.38	3.41	34.27	20.33	39.86	3781	3500	3733	53	0.35
2018-19	2018	Domestic	398	Apr-18	May	41200057/15.04.2018	18/May/18	18/May/18	59	GOLA	3870.8	3728.80	7.44	1.94	2.61	32.47	20.43	44.75	4394	3820	4364	50	0.41
2018-19	2018	Domestic	399	Apr-18	May	41200058/15.04.2018	19/May/18	19/May/18	58	LTBK	3872.0	3920.60	11.14	1.54	2.49	31.45	22.09	44.52	4258	3823	4215	54	0.40
2018-19	2018	Domestic	400	Apr-18	May	41200059/15.04.2018	19/May/18	19/May/18	58	OSBK	3904.5	3904.50	10.90	1.75	2.52	32.14	22.23	43.50	4175	3765	4142	53	0.38
2018-19	2018	Domestic	401	Apr-18	May	41200060/15.04.2018	19/May/18	19/May/18	59	HTE	3868.2	3861.10	10.66	2.75	3.96	31.06	20.44	43.37	4140	3883	4088	52	0.39
2018-19	2018	Domestic	402	Apr-18	May	41200061/15.04.2018	19/May/18	19/May/18	59	GOLA	3897.3	3951.10	13.88	1.47	2.18	35.94	16.40	45.83	3921	2817	3198	64	0.34
2018-19	2018	Domestic	403	Apr-18	May	41200062/15.04.2018	20/May/18	20/May/18	59	GOLA	3872.0	3773.50	10.81	1.58	2.67	34.71	21.15	46.03	4336	3050	3408	61	0.32
2018-19	2018	Domestic	404	Apr-18	May	41200063/15.04.2018	21/May/18	21/May/18	59	OSBK	3847.7	3708.90	9.15	1.03	2.43	32.41	23.85	42.31	4202	3619	3950	57	0.37
2018-19	2018	Domestic	405	Apr-18	May	41200064/15.04.2018	22/May/18	22/May/18	59	GOLA	3896.2	3863.60	13.89	1.22	1.81	34.06	18.67	45.63	4312	3759	4382	58	0.37
2018-19	2018	Domestic	406	Apr-18	May	41200065/15.04.2018	23/May/18	23/May/18	59	GOLA	3932.7	3952.70	9.85	1.31	2.09	33.70	19.15	45.47	3989	3644	4057	58	0.42
2018-19	2018	Domestic	407	Apr-18	May	41200066/15.04.2018	23/May/18	23/May/18	59	LTBK	3880.7	3778.60	8.47	1.33	2.61	32.60	16.23	45.43	4095	3704	3984	59	0.37

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FY	Year	Imported	Rate No.	Month-date	month	RR No/RR Date	Date of unloading	Date of Sampling	Weight of Bags	Source	RR Quantity (MT)	Received Quantity (MT)	TM (ARB) %	IM (ARB) %	EM %	Ash (ARB) %	VMI %	FC (ARB) %	GCY (ARB) kcal/kg	GCY kcal/kg	HGI	%	
2018-19	2018	Domestic	430	Jun-18	Jun	412000093/03.05.2018	6/Jun/18	8/Jun/18	59-54	BCBM	3134.4	3195.60	11.14	3.16	3.43	31.71	21.62	42.75	4106	4050	6412	54	0.36
2018-19	2018	Domestic	431	Jun-18	Jun	412000095/05.05.2018	9/Jun/18	9/Jun/18	59-54	VAA	3911.1	3754.00	11.67	1.13	2.01	32.84	14.69	51.00	3905	3489	3870	58	0.34
2018-19	2018	Domestic	432	Jun-18	Jun	412000168/04.06.2018	9/Jun/18	9/Jun/18	59	GOLA	3947.3	3607.60	11.79	2.85	3.74	31.82	20.82	44.57	4395	3901	4283	55	0.34
2018-19	2018	Domestic	433	Jun-18	Jun	412000095/15.06.2018	17/Jun/18	16/Jun/18	58	KRSL	3804.3	3984.50	5.94	4.85	3.76	30.01	20.11	44.75	3114	3062	3251	63	0.28
2018-19	2018	Domestic	434	Jun-18	Jun	412000047/18.06.2018	22/Jun/18	23/Jun/18	58	BRMO	3929.9	3922.60	6.09	1.77	2.49	33.05	15.77	49.05	3892	3635	3774	60	0.36
2018-19	2018	Imported	435	Jun-18	Jun	412000588/20.06.2018	23/Jun/18	23/Jun/18	58	KOLP	3969.0	3940.10	6.75	3.26	3.34	24.11	25.74	45.98	5296	5105	5284	64	0.81
2018-19	2018	Domestic	436	Jun-18	Jun	412000094/19.06.2018	23/Jun/18	23/Jun/18	59	BCBM	3725.8	3692.10	13.11	3.86	4.53	33.45	22.55	39.76	3869	3443	3782	58	0.38
2018-19	2018	Imported	437	Jun-18	Jun	412000589/22.06.2018	25/Jun/18	24/Jun/18	58	KOLP	3935.10	3692.10	7.65	3.94	4.16	27.96	19.66	48.25	4982	5170	64	0.73	
2018-19	2018	Domestic	438	Jun-18	Jun	412000096/23.06.2018	27/Jun/18	27/Jun/18	58	KNT	3569.9	3595.40	10.13	7.21	6.46	34.90	18.90	39.70	3507	3586	3535	61	0.29
2018-19	2018	Domestic	439	Jun-18	Jun	412000097/25.06.2018	27/Jun/18	27/Jun/18	59	BRMO	3784.8	3646.00	9.68	4.83	3.46	31.02	11.28	53.37	4184	3808	4162	54	0.38
2018-19	2018	Domestic	440	Jun-18	Jun	412000095/25.06.2018	28/Jun/18	28/Jun/18	58	KRSL	3814.6	3750.40	11.66	4.83	4.53	30.92	16.41	47.50	3324	3155	3334	63	0.34
2018-19	2018	Domestic	441	Jun-18	Jun	412000095/30.06.2018	3/Jun/18	3/Jun/18	59-45	BCBM	3449.2	3428.30	16.78	5.47	4.16	33.61	20.68	39.70	2969	2969	3419	60	0.37
2018-19	2018	Domestic	442	Jun-18	Jul	412000096/01.07.2018	4/Jun/18	3/Jun/18	59	TRB	3937.9	3698.70	14.90	5.71	4.19	35.54	20.68	37.72	2969	3163	3662	58	0.32
2018-19	2018	Domestic	443	Jun-18	Jul	412000098/05.07.2018	6/Jun/18	6/Jun/18	59-45	BCBM	3284.2	3235.30	15.49	6.12	5.01	33.01	22.16	38.25	3700	3410	3744	54	0.36
2018-19	2018	Domestic	444	Jun-18	Jul	412000097/05.07.2018	7/Jun/18	6/Jun/18	58	KNT	3985.5	3765.20	10.72	6.59	6.01	31.89	22.40	39.55	3708	3544	3731	54	0.37
2018-19	2018	Domestic	445	Jun-18	Jul	412000097/05.07.2018	7/Jun/18	7/Jun/18	58	NTE	3938.8	3894.50	13.56	6.85	5.01	32.82	21.44	38.45	3618	3365	3689	52	0.44
2018-19	2018	Domestic	446	Jun-18	Jul	412000095/09.07.2018	8/Jun/18	8/Jun/18	59	BCBM	3999.9	3786.20	17.75	5.97	4.13	32.59	19.44	41.75	3474	3174	3488	58	0.24
2018-19	2018	Domestic	447	Jun-18	Jul	412000095/09.07.2018	9/Jun/18	9/Jun/18	58	OSK	3899.5	3699.50	17.24	5.32	4.55	33.14	21.60	39.63	3724	3452	3754	54	0.31
2018-19	2018	Domestic	448	Jun-18	Jul	412000097/10.07.2018	9/Jun/18	9/Jun/18	58	BRMO	3802.7	3674.20	4.06	2.04	1.85	35.12	10.00	52.98	3316	3248	3372	62	0.24
2018-19	2018	Domestic	449	Jun-18	Jul	412000181/10.07.2018	9/Jun/18	9/Jun/18	58	GOLA	3885.0	3919.00	10.32	4.18	3.01	33.43	20.23	41.84	3899	3649	3947	53	0.32
2018-19	2018	Domestic	450	Jun-18	Jul	412000066/04.07.2018	9/Jun/18	10/Jun/18	58	KRSL	3917.6	3917.60	9.95	4.03	3.43	32.67	18.97	43.97	3465	3251	3487	58	0.36
2018-19	2018	Domestic	451	Jun-18	Jul	412000340/07.07.2018	10/Jun/18	10/Jun/18	58	KPK	3934.00	3976.60	17.56	3.60	2.88	24.63	24.50	46.51	5188	4437	5277	62	0.72
2018-19	2018	Domestic	452	Jun-18	Jul	412000209/08.07.2018	11/Jun/18	11/Jun/18	58	KNT	3746.0	3611.80	16.20	6.13	6.25	32.36	22.09	39.07	3670	3198	3665	56	0.35
2018-19	2018	Domestic	453	Jun-18	Jul	412000098/07.07.2018	12/Jun/18	12/Jun/18	58	BRMO	3723.3	3656.30	18.71	1.85	1.54	34.00	12.16	51.74	2710	2244	2719	59	0.25
2018-19	2018	Domestic	454	Jun-18	Jul	412000097/07.07.2018	12/Jun/18	12/Jun/18	59	HTE	3748.3	3710.90	20.66	5.04	4.86	33.69	22.93	37.98	3627	3030	3634	55	0.36
2018-19	2018	Domestic	455	Jun-18	Jul	412000083/11.07.2018	14/Jun/18	14/Jun/18	59	GOLA	3669.1	3669.10	14.54	3.98	3.86	33.28	19.49	42.96	3438	3060	3442	53	0.28
2018-19	2018	Domestic	456	Jun-18	Jul	412000098/12.07.2018	15/Jun/18	15/Jun/18	58	BCBM	3737.4	3684.40	13.17	5.92	4.18	32.16	21.74	34.87	3191	3469	3861	57	0.31
2018-19	2018	Domestic	457	Jun-18	Jul	412000099/14.07.2018	17/Jun/18	17/Jun/18	59	BCBM	3570.4	3491.20	12.38	6.11	4.96	32.93	21.72	38.95	3714	3466	3759	55	0.33
2018-19	2018	Domestic	458	Jun-18	Jul	412000070/14.07.2018	19/Jun/18	19/Jun/18	59	KRSL	3237.8	3099.90	13.14	5.04	3.46	33.45	18.21	43.04	2665	2438	2709	62	0.24
2018-19	2018	Domestic	460	Jun-18	Jul	412000097/17.07.2018	20/Jun/18	20/Jun/18	58	KRSL	3812.4	3695.00	13.98	6.98	5.84	27.62	24.79	40.68	4002	3720	4076	51	0.38
2018-19	2018	Domestic	461	Jun-18	Jul	412000097/16.07.2018	20/Jun/18	20/Jun/18	58	KRSL	3303.8	3431.60	12.81	4.62	3.11	34.56	16.40	44.14	2409	2202	2447	68	0.24
2018-19	2018	Domestic	462	Jun-18	Jul	412000070/16.07.2018	20/Jun/18	20/Jun/18	58	OSK	3915.8	3610.10	11.68	6.56	4.41	31.45	21.96	40.33	3732	3523	3838	58	0.32
2018-19	2018	Domestic	463	Jun-18	Jul	412000060/18.07.2018	20/Jun/18	20/Jun/18	58	KOLP	3930.80	3785.60	13.40	3.33	3.43	32.96	24.96	46.97	5146	4610	5141	62	0.74
2018-19	2018	Domestic	464	Jun-18	Jul	412000071/15.07.2018	21/Jun/18	21/Jun/18	58	KRSL	3508.7	3535.00	12.60	4.90	3.16	34.00	19.06	42.36	2883	2560	2836	59	0.35
2018-19	2018	Domestic	465	Jun-18	Jul	412000071/15.07.2018	23/Jun/18	23/Jun/18	58	BCBM	4014.8	3919.80	14.83	4.28	3.49	34.52	21.09	39.25	3606	3223	3658	53	0.25
2018-19	2018	Domestic	466	Jun-18	Jul	412000031/19.07.2018	22/Jun/18	22/Jun/18	58	TRU	3913.4	3796.10	16.77	4.28	3.01	31.91	21.07	42.36	3909	3051	3556	59	0.34
2018-19	2018	Domestic	467	Jun-18	Jul	412000089/18.07.2018	22/Jun/18	22/Jun/18	58	BRMO	3914.0	3911.40	11.80	3.33	2.41	35.91	21.91	37.48	3713	3189	3788	57	0.37
2018-19	2018	Domestic	468	Jun-18	Jul	412000098/15.07.2018	22/Jun/18	22/Jun/18	58	BKPD	3911.4	3911.40	17.82	4.18	3.84	31.58	30.81	43.76	4978	4535	4945	67	0.65
2018-19	2018	Domestic	469	Jun-18	Jul	412000063/20.07.2018	23/Jun/18	23/Jun/18	58	KOLP	3868.80	3713.70	9.64	3.61	3.51	27.78	20.59	47.77	5268	4938	5273	69	0.75
2018-19	2018	Domestic	470	Jun-18	Jul	412000487/20.07.2018	24/Jun/18	24/Jun/18	58	KOLP	3965.20	3854.10	11.40	3.99	3.46	22.70	27.55	45.63	5110	4686	5106	67	0.73
2018-19	2018	Domestic	471	Jun-18	Jul	412000032/20.07.2018	24/Jun/18	24/Jun/18	58	DCBM	3518.2	3420.80	10.40	4.99	3.46	34.21	21.18	39.87	3719	3378	3719	52	0.41
2018-19	2018	Domestic	472	Jun-18	Jul	412000031/21.07.2018	25/Jun/18	24/Jun/18	58	BCBM	3226.4	3511.70	19.29	3.84	3.01	30.04	20.74	45.07	3389	2844	3418	54	0.31
2018-19	2018	Domestic	473	Jun-18	Jul	412000065/20.07.2018	25/Jun/18	24/Jun/18	58	BARAKAMANA	3913.8	3757.20	13.60	4.67	3.41	32.89	21.43	40.63	3803	3447	3853	54	0.36
2018-19	2018	Domestic	474	Jun-18	Jul	412000093/21.07.2018	25/Jun/18	25/Jun/18	58	KNT	3894.8	3786.80	14.48	5.57	6.18	31.37	22.03	40.66	3858	3494	3833	57	0.37
2018-19	2018	Domestic	475	Jun-18	Jul	412000074/25.07.2018	29/Jun/18	29/Jun/18	58	TRU	3786.8	3786.80	14.44	5.03	3.03	31.62	16.41	46.66	3152	28			

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FY	Year	Imported	Rate No	Month-date	Month	RR No/RR Date	Date of unloading	Date of Sampling	No. of Wagons	Source	RR Quantity (MT)	Received Quantity (MT)	TM (%)	IM (ADB) (%)	EM (%)	AM (ADB) (%)	VM (ADB) (%)	FC (ADB) (%)	GCV (ADB) kcal/kg	GCV (ARB) kcal/kg	GCV kcal/kg (English)	HGI	S
2018-19	2018	Domestic	498	Aug-18	Aug	41200007/22.08.2018	22/Aug/18	22/Aug/18	59	OSRK	3846.0	3623.70	13.08	2.17	5.96	34.80	11.60	41.02	3450	3055	3116	64	0.41
2018-19	2018	Domestic	499	Aug-18	Aug	41200004/22.08.2018	22/Aug/18	22/Aug/18	59	KST	3006.6	3045.80	19.27	2.25	6.41	32.98	21.01	43.25	3549	2931	3398	61	0.51
2018-19	2018	Domestic	500	Aug-18	Aug	41200006/21.08.2018	24/Aug/18	24/Aug/18	59	OSRK	3963.9	3843.30	11.68	3.05	4.96	34.34	21.61	40.09	3525	3236	3471	66	0.41
2018-19	2018	Imported	501	Aug-18	Aug	412000016/21.08.2018	26/Aug/18	26/Aug/18	59	KOLP	3833.0	3776.60	8.82	3.17	4.27	28.61	23.81	41.00	5011	4719	4954	59	0.41
2018-19	2018	Domestic	502	Aug-18	Aug	412000044/21.08.2018	27/Aug/18	27/Aug/18	58	KST	4065.8	3984.80	14.17	3.69	5.76	33.87	22.62	39.44	3278	2921	3108	60	0.38
2018-19	2018	Domestic	503	Aug-18	Aug	412000017/21.08.2018	28/Aug/18	28/Aug/18	59	KCBM	3738.8	3677.40	17.74	5.52	3.78	33.16	24.45	36.35	3232	2814	3192	58	0.52
2018-19	2018	Domestic	504	Aug-18	Aug	412000018/21.08.2018	30/Aug/18	30/Aug/18	58	KCBM	3909.7	3794.90	17.95	5.43	3.67	33.30	25.31	35.47	3565	3116	3631	61	0.49
2018-19	2018	Imported	506	Sep-18	Sep	412000019/21.08.2018	1/Sep/18	1/Sep/18	58	KCBM	3735.0	3483.40	15.03	2.65	3.55	35.37	21.75	39.61	3452	3022	3431	64	0.32
2018-19	2018	Imported	507	Sep-18	Sep	412000017/21.08.2018	1/Sep/18	1/Sep/18	58	KOLP	3940.0	3718.30	10.37	2.65	4.15	28.50	21.53	46.80	5211	4798	5131	58	0.52
2018-19	2018	Domestic	508	Sep-18	Sep	412000012/21.08.2018	3/Sep/18	3/Sep/18	59	PTRU	3990.20	3739.60	8.66	2.74	4.21	27.51	21.03	48.18	5272	4951	5192	61	0.54
2018-19	2018	Domestic	509	Sep-18	Sep	412000014/21.08.2018	3/Sep/18	3/Sep/18	59	KST	3634.0	3598.60	14.56	2.87	3.25	34.78	21.69	40.36	3617	3182	3603	75	0.60
2018-19	2018	Domestic	510	Sep-18	Sep	412000047/30.08.2018	4/Sep/18	4/Sep/18	58	BILT	3888.50	3888.50	14.05	1.91	5.11	34.55	22.54	40.70	3801	3068	3368	68	0.30
2018-19	2018	Domestic	511	Sep-18	Sep	412000015/31.08.2018	4/Sep/18	4/Sep/18	58	KST	3945.50	3934.60	15.52	2.67	3.58	34.82	22.80	44.79	3552	3093	3459	77	0.54
2018-19	2018	Domestic	512	Sep-18	Sep	412000056/31.08.2018	5/Sep/18	4/Sep/18	59	BKHD	3933.30	3897.30	19.29	1.95	5.67	32.71	22.38	42.57	3075	3087	3524	63	0.55
2018-19	2018	Domestic	513	Sep-18	Sep	412000020/02.09.2018	6/Sep/18	6/Sep/18	59	KCBM	3658.10	3571.30	13.95	2.01	4.56	34.89	21.98	40.52	3555	3122	3462	73	0.51
2018-19	2018	Domestic	514	Sep-18	Sep	412000019/01.09.2018	7/Sep/18	7/Sep/18	59	GOLA	3715.30	3715.30	19.10	1.86	3.06	34.00	15.80	47.85	2790	2300	2756	76	0.60
2018-19	2018	Domestic	515	Sep-18	Sep	412000021/06.09.2018	8/Sep/18	8/Sep/18	58	KCBM	3907.80	3906.00	15.83	2.52	3.69	32.63	20.56	43.83	3495	3048	3459	68	0.46
2018-19	2018	Domestic	516	Sep-18	Sep	412000048/12.09.2018	10/Sep/18	10/Sep/18	58	KST	3910.30	3796.20	13.55	2.47	4.78	33.72	21.21	42.12	3442	3060	3370	71	0.48
2018-19	2018	Domestic	517	Sep-18	Sep	412000022/15.09.2018	15/Sep/18	17/Sep/18	58	KST	3827.60	3710.20	12.21	2.55	4.19	35.65	11.11	40.13	3446	3104	3388	67	0.56
2018-19	2018	Domestic	518	Sep-18	Sep	412000051/15.09.2018	17/Sep/18	17/Sep/18	58	KCBM	3912.40	3872.30	13.67	2.07	3.13	35.17	21.08	41.19	3407	3003	3301	69	0.49
2018-19	2018	Domestic	519	Sep-18	Sep	412000050/14.09.2018	18/Sep/18	18/Sep/18	59	KST	3840.70	3701.40	12.44	2.11	4.56	34.59	21.62	41.17	3473	3107	3386	70	0.51
2018-19	2018	Domestic	520	Sep-18	Sep	412000037/11.09.2018	19/Sep/18	19/Sep/18	58	BKHD	3913.20	3913.20	12.44	2.11	4.56	34.59	21.62	41.17	3473	3107	3386	70	0.51
2018-19	2018	Domestic	521	Sep-18	Sep	412000031/16.09.2018	19/Sep/18	19/Sep/18	58	BKHD	3913.20	3913.20	12.44	2.11	4.56	34.59	21.62	41.17	3473	3107	3386	70	0.51
2018-19	2018	Domestic	522	Sep-18	Sep	412000052/17.09.2018	20/Sep/18	20/Sep/18	59	KOLP	3929.50	3830.80	8.23	2.77	3.16	28.43	20.64	47.31	5145	4856	5124	57	0.45
2018-19	2018	Domestic	523	Sep-18	Sep	412000024/19.09.2018	20/Sep/18	20/Sep/18	59	KOLP	3929.50	3830.80	8.23	2.77	3.16	28.43	20.64	47.31	5145	4856	5124	57	0.45
2018-19	2018	Domestic	524	Sep-18	Sep	412000034/18.09.2018	21/Sep/18	21/Sep/18	59	KOLP	3811.00	3715.90	10.43	2.39	4.66	34.11	22.7	40.32	3685	3381	3599	72	0.48
2018-19	2018	Domestic	525	Sep-18	Sep	412000023/15.09.2018	21/Sep/18	21/Sep/18	59	KCBM	3711.00	3540.10	8.27	2.84	3.47	31.54	24.89	37.18	3587	3009	3509	56	0.64
2018-19	2018	Domestic	526	Sep-18	Sep	412000052/19.09.2018	21/Sep/18	21/Sep/18	58	KCBM	3792.00	3662.20	3.64	2.89	3.18	33.12	21.09	42.63	3436	3187	3545	67	0.55
2018-19	2018	Domestic	527	Sep-18	Sep	412000020/20.09.2018	23/Sep/18	23/Sep/18	59	PTRU	3887.70	3826.30	20.11	3.22	3.77	33.66	20.35	42.28	3302	2776	3289	65	0.49
2018-19	2018	Imported	529	Sep-18	Sep	412000053/21.09.2018	23/Sep/18	23/Sep/18	59	KST	3910.80	3910.80	37.45	2.82	3.89	33.09	18.47	45.31	3359	2853	3322	68	0.51
2018-19	2018	Domestic	530	Sep-18	Sep	412000036/21.09.2018	24/Sep/18	24/Sep/18	59	KOLP	3874.40	3733.30	10.03	2.44	3.55	23.97	17.47	45.48	4956	4573	4993	55	0.66
2018-19	2018	Domestic	531	Sep-18	Sep	412000058/21.09.2018	25/Sep/18	25/Sep/18	58	KCBM	3779.80	3779.80	14.94	2.70	3.91	31.43	22.28	43.65	3458	3008	3398	67	0.42
2018-19	2018	Domestic	532	Sep-18	Sep	412000073/22.09.2018	25/Sep/18	25/Sep/18	59	KOLP	3952.70	3760.50	15.08	2.39	3.07	32.45	24.5	50.08	4107	3573	4078	65	0.58
2018-19	2018	Domestic	533	Sep-18	Sep	412000027/22.09.2018	25/Sep/18	25/Sep/18	57	DGSC	3959.50	3959.50	8.92	2.59	4.26	33.55	21.19	42.34	3551	2910	3483	64	0.56
2018-19	2018	Imported	534	Sep-18	Sep	412000026/22.09.2018	26/Sep/18	26/Sep/18	58	KOLP	3936.00	3709.30	5.36	2.87	3.57	32.40	18.83	40.16	3787	3521	3768	69	0.60
2018-19	2018	Domestic	535	Sep-18	Sep	412000043/23.09.2018	27/Sep/18	27/Sep/18	58	KST	3892.80	3892.80	9.84	2.01	3.55	31.77	20.69	44.91	3357	3089	3304	71	0.62
2018-19	2018	Domestic	536	Sep-18	Sep	412000054/23.09.2018	27/Sep/18	27/Sep/18	59	BRT	3982.80	3882.80	11.5	2.46	3.77	33.54	22.17	41.19	3452	3132	3406	68	0.64
2018-19	2018	Domestic	537	Sep-18	Sep	412000020/24.09.2018	27/Sep/18	27/Sep/18	59	BERMO	3934.20	3725.80	10.64	2.39	3.48	33.66	21.17	41.75	3302	3041	3285	73	0.56
2018-19	2018	Domestic	538	Sep-18	Sep	412000074/24.09.2018	27/Sep/18	27/Sep/18	59	PTRU	3914.60	3914.60	11.14	3.48	4.11	32.20	19.56	44.61	3082	2892	3056	57	0.35
2018-19	2018	Domestic	539	Oct-18	Oct	412000020/30.09.2018	3/Oct/18	3/Oct/18	58	GOLA	3826.00	3699.40	14.10	2.24	3.87	31.50	18.38	47.52	3437	3020	3380	62	0.36
2018-19	2018	Domestic	540	Oct-18	Oct	412000026/30.09.2018	4/Oct/18	4/Oct/18	59	KCBM	3926.60	3826.60	11.58	2.97	3.92	32.78	21	42.88	3435	3130	3401	66	0.37
2018-19	2018	Domestic	541	Oct-18	Oct	412000029/30.09.2018	4/Oct/18	4/Oct/18	57	KCBM	3926.60	3826.60	11.58	2.97	3.92	32.78	21	42.88	3435	3130	3401	66	0.37
2018-19	2018	Domestic	542	Oct-18	Oct	412000027/30.09.2018	4/Oct/18	4/Oct/18	59	GOLA	3934.30	3877.42	13.44	2.84	4.26	31.77	19.35	45.5	3066	2951	3021	57	0.54
2018-19	2018	Domestic	543	Oct-18	Oct	412000022/30.09.2018	5/Oct/18	5/Oct/18	59	PTRU	3893.40	3834.40	9.64	2.87	4.06	33.78	20.53	43.89	3439	3040	3370	68	0.43
2018-19	2018	Domestic	544	Oct-18	Oct	412000077/30.09.2018	6/Oct/18	6/Oct/18	52	BERMO	3478.60	3391.30	9.44	2.57	3.87	33.11	13.77	50.2					

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FY	Year	Imported	Rate No.	Month	RR No/RR Date	Date of unloading	Date of Sampling	No. of Wagons	Source	RR Quantity (MT)	Received Quantity (MT)	TM (%)	IM (ADB) %	IM (ADB) %	Ash (ADB) %	VM (ADB) %	FC (ADB) %	GCY (ADB) Kcal/Kg	GCY (ADB) Kcal/Kg (Std)	HGI	S (ADB) %
2018-19	2018	Domestic	566	Oct	41200034	31/Oct/18	31/Oct/18	60	BCBM	3930.40	3970.60	11.48	2.51	3.77	33.69	20.52	42.68	3420	3776	65	0.60
2018-19	2018	Domestic	567	Nov	41200035	1/Nov/18	1/Nov/18	59	DGSC	3846.40	3834.10	5.95	1.37	3.50	34	14.15	50.18	3782	3606	3762	56
2018-19	2018	Domestic	568	Nov	41200036	1/Nov/18	1/Nov/18	59	PRU	3889.20	3843.90	10.95	3.68	3.41	33.29	22.1	36.96	3417	3706	46	0.37
2018-19	2018	Domestic	569	Nov	41200037	1/Nov/18	1/Nov/18	59	PRU	3297.60	3297.60	10.53	3.63	3.66	33.41	25.5	37.02	3665	3403	3664	64
2018-19	2018	Domestic	570	Nov	41200038	1/Nov/18	1/Nov/18	59	PRU	3797.80	3797.80	11.10	3.98	3.53	33.84	11.67	30.28	3566	3302	3593	54
2018-19	2018	Domestic	571	Nov	41200039	1/Nov/18	1/Nov/18	58	KULU	3900.40	3889.30	8.43	2.02	3.74	32.41	19.16	46.00	3458	3232	3415	58
2018-19	2018	Domestic	572	Nov	41200040	8/Nov/18	8/Nov/18	57	BALLU	3716.60	3716.60	10.13	2.33	2.57	32.41	21.08	43.79	3748	3445	3735	57
2018-19	2018	Domestic	573	Nov	41200041	9/Nov/18	9/Nov/18	59	GOLA	3846.70	3793.80	11.94	1.24	2.18	31.84	28.31	48.09	3435	3077	3674	58
2018-19	2018	Domestic	574	Nov	41200042	9/Nov/18	9/Nov/18	59	PRU	3885.20	3885.20	10.32	2.12	2.67	34.68	21.14	41.55	3695	3870	3674	61
2018-19	2018	Domestic	575	Nov	41200043	10/Nov/18	10/Nov/18	59	GOLA	3672.00	3438.20	10.57	0.95	1.55	32.71	20.95	44.97	3860	3485	3821	66
2018-19	2018	Domestic	576	Nov	41200044	11/Nov/18	11/Nov/18	52	BURT	3518.40	3518.40	14.75	1.83	2.31	34.27	20.99	42.46	3516	3063	3469	58
2018-19	2018	Domestic	577	Nov	41200045	11/Nov/18	11/Nov/18	58	PRU	3917.20	3893.30	14.83	1.48	2.15	33.55	20.63	43.54	3701	3189	3676	63
2018-19	2018	Imported	579	Nov	41200046	14/Nov/18	14/Nov/18	59	DUGDA	4096.90	3871.00	4.16	0.38	2.23	34	35.02	51.2	3268	3244	3502	49
2018-19	2018	Domestic	580	Nov	41200047	14/Nov/18	14/Nov/18	59	KPK	3693.90	3651.90	11.68	2.75	2.67	32.85	20.25	47.16	3304	4817	5308	52
2018-19	2018	Domestic	581	Nov	41200048	15/Nov/18	15/Nov/18	58	PRU	3907.50	3907.50	9.40	1.68	1.69	31.59	20.38	45.88	3718	3426	3710	58
2018-19	2018	Domestic	582	Nov	41200049	15/Nov/18	15/Nov/18	58	BHKO	3921.20	3921.20	11.84	1.78	2.32	32.62	22.25	42.90	3784	3396	3763	63
2018-19	2018	Domestic	583	Nov	41200050	15/Nov/18	15/Nov/18	59	BHKO	3872.00	3787.80	12.98	1.77	2.47	33.36	22.51	41.92	3914	3467	3886	55
2018-19	2018	Domestic	584	Nov	41200051	16/Nov/18	16/Nov/18	58	DUGDA	3610.90	3645.20	3.77	0.75	1.53	33.58	14.06	51.13	4060	3695	4028	62
2018-19	2018	Domestic	585	Nov	41200052	17/Nov/18	17/Nov/18	58	KPK	3937.70	3789.50	10.84	3.11	3.77	26.66	24.59	45.29	5316	4919	5307	64
2018-19	2018	Domestic	586	Nov	41200053	18/Nov/18	18/Nov/18	58	OSBK	3914.10	3914.10	8.80	3.08	3.22	34.83	22.47	39.36	3683	3467	3683	59
2018-19	2018	Domestic	587	Nov	41200054	18/Nov/18	18/Nov/18	59	PRU	3777.20	3690.30	14.94	1.64	2.16	32.81	23.89	41.12	3886	3361	3685	61
2018-19	2018	Domestic	588	Nov	41200055	20/Nov/18	20/Nov/18	59	GOLA	3788.13	3473.50	14.06	3.07	3.22	33.10	20.94	42.41	3833	3388	3827	64
2018-19	2018	Domestic	589	Nov	41200056	21/Nov/18	21/Nov/18	59	DUGDA	3558.10	3698.30	16.94	1.64	4.28	31.82	17.85	45.05	3114	2778	3126	48
2018-19	2018	Domestic	590	Nov	41200057	22/Nov/18	22/Nov/18	59	GOLA	3837.40	3499.30	16.64	2.86	3.41	32.25	22.06	42.01	3763	3310	3746	49
2018-19	2018	Domestic	591	Nov	41200058	23/Nov/18	23/Nov/18	59	PRU	3922.50	3922.50	9.40	2.86	4.11	32.41	18.04	44.35	2973	2684	2969	51
2018-19	2018	Domestic	592	Nov	41200059	23/Nov/18	23/Nov/18	58	BHKO	3893.60	3941.00	11.99	3.38	3.67	34.56	19.37	40.36	3818	3520	3959	55
2018-19	2018	Domestic	593	Nov	41200060	23/Nov/18	23/Nov/18	58	GOLA	3983.60	3742.30	14.45	1.61	2.21	33.02	22.45	40.36	3818	3520	3795	64
2018-19	2018	Domestic	594	Nov	41200061	24/Nov/18	24/Nov/18	58	BARKAKANA	3916.70	3916.70	10.08	1.27	2.34	33.47	19.60	42.15	3334	3030	3310	55
2018-19	2018	Domestic	595	Nov	41200062	24/Nov/18	24/Nov/18	58	PHULBASIA	4018.80	3738.60	11.27	3.84	3.57	33.71	17.55	44.75	4071	2819	3064	62
2018-19	2018	Domestic	596	Nov	41200063	27/Nov/18	27/Nov/18	57	PRU	3846.70	3846.70	11.46	3.32	5.28	35.07	20.05	41.17	3588	3284	3513	83
2018-19	2018	Domestic	597	Dec	41200064	2/Dec/18	2/Dec/18	57	PRU	3913.30	3746.20	12.83	5.07	5.59	32.98	18.97	42.55	3106	3089	3089	53
2018-19	2018	Domestic	598	Dec	41200065	3/Dec/18	3/Dec/18	58	BARKAKANA	3919.00	3919.00	8.80	4.06	4.55	31.31	18.22	46.08	3118	3059	3202	64
2018-19	2018	Domestic	599	Dec	41200066	3/Dec/18	3/Dec/18	57	DUGDA	3836.50	3659.70	5.32	1.02	1.65	33.18	15.96	49.84	3761	3598	3737	74
2018-19	2018	Domestic	600	Dec	41200067	3/Dec/18	3/Dec/18	58	BHKO	3931.20	3823.20	15.96	2.35	3.89	34	19.43	43.78	3582	3083	3526	76
2018-19	2018	Domestic	601	Dec	41200068	4/Dec/18	4/Dec/18	59	HTE	3866.90	3797.00	13.55	4.52	4.88	33.41	20.15	41.28	3441	3116	3428	73
2018-19	2018	Domestic	602	Dec	41200069	4/Dec/18	4/Dec/18	58	BARKAKANA	3938.90	3820.10	8.99	3.22	3.35	33.88	22.06	40.36	3553	3341	3475	49
2018-19	2018	Domestic	603	Dec	41200070	5/Dec/18	5/Dec/18	49	PHULBASIA	3963.70	3838.10	11.59	4.72	5.23	35.30	21.28	38.03	3588	3158	3518	71
2018-19	2018	Domestic	604	Dec	41200071	5/Dec/18	5/Dec/18	58	BARKAKANA	3936.80	3832.40	7.66	3.45	5.57	33.14	23.07	39.94	3615	3457	3532	60
2018-19	2018	Domestic	605	Dec	41200072	5/Dec/18	5/Dec/18	59	HTE	3801.70	3754.60	11.65	3.81	4.53	33.08	21.14	41.44	3485	3201	3459	54
2018-19	2018	Domestic	606	Dec	41200073	6/Dec/18	6/Dec/18	59	KANPL	3805.10	3729.30	9.18	3.09	4.23	25.97	23.77	46.72	5025	4709	4966	42
2018-19	2018	Domestic	607	Dec	41200074	7/Dec/18	7/Dec/18	58	BHKO	3937.30	3917.30	13.93	3.63	4.87	35.50	21.17	39.10	3543	3164	3497	67
2018-19	2018	Domestic	608	Dec	41200075	8/Dec/18	8/Dec/18	58	PHULBASIA	3845.60	3667.40	10.23	4.02	4.27	32.43	21.18	41.98	3386	3167	3377	62
2018-19	2018	Domestic	609	Dec	41200076	10/Dec/18	10/Dec/18	58	PRU	3907.30	3859.10	10.70	4.18	4.35	31.45	20.76	43.26	3348	3120	3342	77
2018-19	2018	Domestic	610	Dec	41200077	10/Dec/18	10/Dec/18	58	PHULBASIA	3927.50	3927.50	10.93	3.86	4.21	32.09	20.93	42.48	3472	3217	3459	76
2018-19	2018	Domestic	611	Dec	41200078	11/Dec/18	11/Dec/18	59	BARKAKANA	3935.10	3935.10	10.70	4.22	4.54	31	19.61	44.17	3274	3052	3487	69
2018-19	2018	Domestic	612	Dec	41200079	11/Dec/18	11/Dec/18	59	KANPL	3862.40	3862.40	8.04	3.92	4.41	33.39	20.93	41.95	3356	3220	3469	77
2018-19	2018	Domestic	613	Dec	41200080	11/Dec/18	11/Dec/18	59	GOLA	3966.70	3815.40	12.03	3.59	4.41	33.39	20.93	41.95	3356	3220	3469	77
2018-19	2018	Domestic	614	Dec	41200081	12/Dec/18	12/Dec/18	58	PHULBASIA	3979.60	3855.10	12.03	4.42	4.48	33.92	21.17	40.02	3359	3092	3343	82
2018-19	2018	Domestic	615	Dec	41200082	13/Dec/18	13/Dec/18	58	BARKAKANA	3938.70	3938.70	11.20	3.58	5.04	32.71	22.91	40.44	3608	3323	3553	81
2018-19	2018	Domestic	616	Dec	41200083	13/Dec/18	13/Dec/18	58	PHULBASIA	3888.60	3797.10	12.71	3.92	4.56	31.73	21.16	42.59	3424	3111	3401	80
2018-19	2018	Domestic	617	Dec	41200084	13/Dec/18	13/Dec/18	59	HTE	3723.90	3723.90	14.65	4.25	4.61	32.26	21.70					

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Row Labels	Average of TM (ARB)%	Average of IM (ADB)%	Average of Ash (ADB)%	Average of VM (ADB)%	Average of FC (ADB)%	Average of GCY (ADB) Kcal/kg	Average of GCY (ARB) Kcal/kg	Average of GCY Kcal/kg (Eqitd)	Average of S (ADB)%
2016-17	5.68	1.31	32.63	28.80	36.88	4336	4147	4300	0.37
2017-18	11.08	3.78	32.89	25.54	37.46	4062	3754	4039	0.33
2018-19	11.71	3.05	32.61	20.62	43.27	3769	3435	3750	0.45
Grand Total	11.15	3.26	32.72	23.06	40.56	3918	3603	3897	0.40

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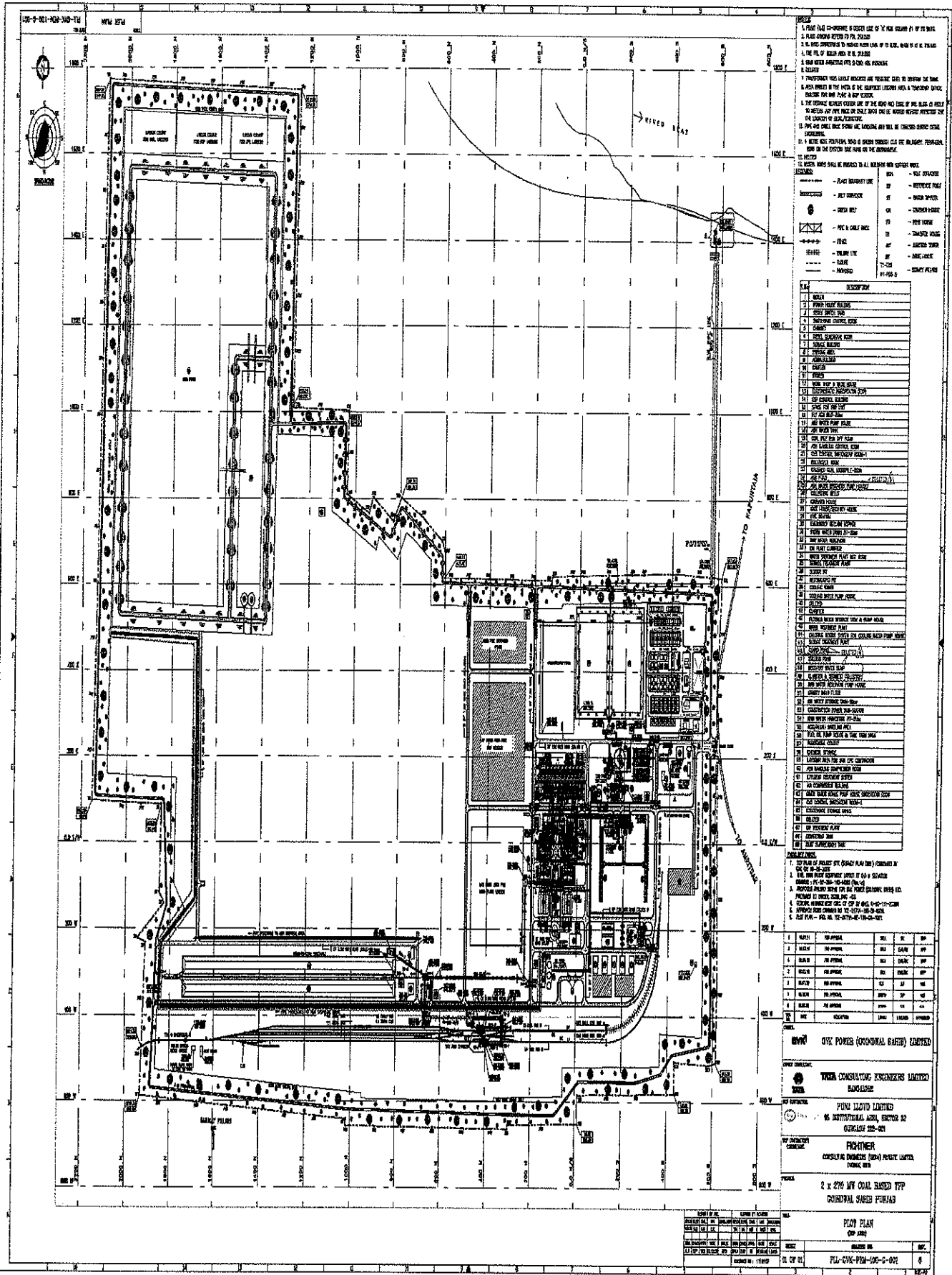
	<i>As Receieved(ARB)</i>	<i>As Billed (Equiliberated)</i>
<i>Apr-16</i>	3645	3859
<i>May-16</i>	4387	4459
<i>Jun-16</i>	4599	4661
<i>Jul-16</i>	3995	4166
<i>Aug-16</i>	0	0
<i>Sep-16</i>	4156	4356
<i>Oct-16</i>	4004	4258
<i>Nov-16</i>	0	0
<i>Dec-16</i>	4160	4310
<i>Jan-17</i>	3927	4265
<i>Feb-17</i>	3768	4094
<i>Mar-17</i>	0	0
<i>Apr-17</i>	0	0
<i>May-17</i>	3969	4209
<i>Jun-17</i>	3946	4062
<i>Jul-17</i>	3633	3847
<i>Aug-17</i>	4008	4267
<i>Sep-17</i>	3955	4307
<i>Oct-17</i>	3793	4134
<i>Nov-17</i>	3710	4036
<i>Dec-17</i>	3768	4000
<i>Jan-18</i>	3436	3685
<i>Feb-18</i>	3401	3700
<i>Mar-18</i>	3483	3846
<i>Apr-18</i>	3793	4184
<i>May-18</i>	3594	3928
<i>Jun-18</i>	3846	4092
<i>Jul-18</i>	3391	3777
<i>Aug-18</i>	3167	3518
<i>Sep-18</i>	3397	3738
<i>Oct-18</i>	3205	3487
<i>Nov-18</i>	3407	3718
<i>Dec-18</i>	3279	3528
<i>Jan-19</i>	3350	3603



8.5 SITE PLAN FOR WFGD SPACE AVAILABILITY

Annexure 7 (2 of 2) Feasibility Report_FGD

Overall plot plan of the plant



1. PLAN AND ELEVATION OF THE PLANT AS SHOWN IN THE ATTACHED DRAWINGS.
 2. THE PLANT SHALL BE DESIGNED TO OPERATE AT A PRESSURE OF 10 BAR.
 3. THE PLANT SHALL BE DESIGNED TO OPERATE AT A TEMPERATURE OF 1000°C.
 4. THE PLANT SHALL BE DESIGNED TO OPERATE AT A FLOW RATE OF 100 TONS PER HOUR.
 5. THE PLANT SHALL BE DESIGNED TO OPERATE AT A CAPACITY OF 100 TONS PER HOUR.
 6. THE PLANT SHALL BE DESIGNED TO OPERATE AT A CAPACITY OF 100 TONS PER HOUR.
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 11. THE PLANT SHALL BE DESIGNED TO OPERATE AT A CAPACITY OF 100 TONS PER HOUR.
 12. THE PLANT SHALL BE DESIGNED TO OPERATE AT A CAPACITY OF 100 TONS PER HOUR.

NO.	DESCRIPTION
1	PLANT BUILDING
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96	PLANT BUILDING
97	PLANT BUILDING
98	PLANT BUILDING
99	PLANT BUILDING
100	PLANT BUILDING

1. THE PLAN OF THE PLANT (SEE OVERALL PLAN) IS SHOWN IN THE ATTACHED DRAWINGS.
 2. THE PLANT SHALL BE DESIGNED TO OPERATE AT A PRESSURE OF 10 BAR.
 3. THE PLANT SHALL BE DESIGNED TO OPERATE AT A TEMPERATURE OF 1000°C.
 4. THE PLANT SHALL BE DESIGNED TO OPERATE AT A FLOW RATE OF 100 TONS PER HOUR.
 5. THE PLANT SHALL BE DESIGNED TO OPERATE AT A CAPACITY OF 100 TONS PER HOUR.
 6. THE PLANT SHALL BE DESIGNED TO OPERATE AT A CAPACITY OF 100 TONS PER HOUR.
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 8. THE PLANT SHALL BE DESIGNED TO OPERATE AT A CAPACITY OF 100 TONS PER HOUR.
 9. THE PLANT SHALL BE DESIGNED TO OPERATE AT A CAPACITY OF 100 TONS PER HOUR.
 10. THE PLANT SHALL BE DESIGNED TO OPERATE AT A CAPACITY OF 100 TONS PER HOUR.

NO.	DESCRIPTION	QTY	UNIT	PRICE	TOTAL
1	PLANT BUILDING	1	SQ. M.	1000000	1000000
2	PLANT BUILDING	1	SQ. M.	1000000	1000000
3	PLANT BUILDING	1	SQ. M.	1000000	1000000
4	PLANT BUILDING	1	SQ. M.	1000000	1000000
5	PLANT BUILDING	1	SQ. M.	1000000	1000000
6	PLANT BUILDING	1	SQ. M.	1000000	1000000
7	PLANT BUILDING	1	SQ. M.	1000000	1000000
8	PLANT BUILDING	1	SQ. M.	1000000	1000000
9	PLANT BUILDING	1	SQ. M.	1000000	1000000
10	PLANT BUILDING	1	SQ. M.	1000000	1000000

2 x 270 MW COAL BASED TPP
 GONDWAL SAHIB PUNJAB

PREPARED BY:
 PUNJ LLOYD LIMITED
 16, INDUSTRIAL AREA, SECTOR 12
 GURGAON - 122 001

PROJECT ENGINEER:
 PRATHEEP
 (CONSULTANT ENGINEER) PRIVATE LIMITED
 GURGAON, INDIA

NO.	DESCRIPTION	QTY	UNIT	PRICE	TOTAL
1	PLANT BUILDING	1	SQ. M.	1000000	1000000
2	PLANT BUILDING	1	SQ. M.	1000000	1000000
3	PLANT BUILDING	1	SQ. M.	1000000	1000000
4	PLANT BUILDING	1	SQ. M.	1000000	1000000
5	PLANT BUILDING	1	SQ. M.	1000000	1000000
6	PLANT BUILDING	1	SQ. M.	1000000	1000000
7	PLANT BUILDING	1	SQ. M.	1000000	1000000
8	PLANT BUILDING	1	SQ. M.	1000000	1000000
9	PLANT BUILDING	1	SQ. M.	1000000	1000000
10	PLANT BUILDING	1	SQ. M.	1000000	1000000



8.6 PERT CHART



8.7 SOIL TEST REPORT

**REPORT ON:****GEOTECHNICAL INVESTIGATION FOR
2x300 MW COAL FIRED THERMAL
POWER PROJECT AT GOINDWAL SAHIB
TARAN TARAN DISTRICT, PUNJAB****VOLUME-II : NON – EPC AREAS****Submitted to:****M/s. GVK Power (Goindwal Sahib) Ltd.
156-159, Paigah House
Sardar Patel Road
Secunderabad-50003.****CENGRS GEOTECHNICA PVT. LTD.****CIVIL & GEOTECHNICAL ENGINEERS
CORPORATE OFFICE : A-100, SECTOR-63, NOIDA - 201309 (UP), INDIA
TEL.: 91-120-4206771 FAX : 91-120-4206775, 91-11-26193985 E-Mail : cengrs@gmail.com
REGD. OFFICE : B - 3 / 87, SAFDARJUNG ENCLAVE, NEW DELHI - 110029, INDIA**

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- 2) **Ground Improvement** : Ground improvement may also be carried out at the site in order to improve the bearing capacity of the ground, and reduce the liquefaction susceptibility of the ground. The loose soils encountered at the site may be densified by provision of rammed stone columns, or by dynamic compaction. Open foundations may bear on the improved ground after verifying the effectiveness of the ground improvement method used. (Refer to Section 7.3 for detailed recommendations).

The potential for liquefaction may be ignored for the boundary walls, in case they are considered as non-critical structures. Strip footings may be provided to support the boundary wall loads if the potential for liquefaction during earthquakes is ignored. We recommend a minimum foundation embedment depth of 1.2 m for foundations not exceeding 2 m width strip footings bearing on a 50 cm layer of compacted gravel blinded with sand. (Refer to Section 7.4 for detailed foundation recommendations)


The following sections (Sections 7.2 through 7.4) present our detailed analysis and design recommendations for each of the foundation schemes suggested for the site.

7.2 Pile Foundations

We recommend the following values of safe compressive capacities for bored and driven RCC cast-in-situ piles with an assumed cut-off-level of 2.0 m:

Analysis Case	Type of Pile	Pile Diameter, mm	Pile Length below Cut-Off-Level, m	Computed Safe Axial Compressive Capacity, Tonnes	Typical Calculations
Seismic Case (considering Liquefaction to 8.0 m depth)	Bored cast-in-situ	500	16.0	42	Sheet No's. 1 and 2
			18.0	48	
			20.0	57	
	600	16.0	62	Sheet No's. 3 and 4	
		18.0	71		
		20.0	86		

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Analysis Case	Type of Pile	Pile Diameter, mm	Pile Length below Cut-Off-Level, m	Computed Safe Axial Compressive Capacity, Tonnes	Typical Calculations
Seismic Case (considering Liquefaction to 8.0 m depth)	Driven cast-in-situ	450	16.0	36	Sheet No's. 5 and 6
			18.0	41	
			20.0	49	
		500	16.0	46	Sheet No's. 7 and 8
			18.0	52	
			20.0	62	

The following points should be considered while using the above-recommended capacities:

1. General concepts used for computation of pile capacities are presented in Section 5.2 of this report.
2. The above values are based on IS:2911(Part-1):Sections-1&2, and include safety factor of 2.5.
3. Capacities for piles of intermediate length may be interpolated linearly between the values given above.
4. As explained in Section 6.0, there is a potential for liquefaction the fine sand stratum to about 8.0 m depth (~RL 209.2 m) in the event of an earthquake. The skin friction contribution of the liquefiable strata has been ignored in the calculation of safe pile capacities.
5. The maximum depth explored in the Ash Pond Area is 10 m, with the exception of BH-7, which was drilled to 27.45 m depth. If pile foundations are planned in this area, we recommend that additional investigations be conducted to minimum 30 m depth in order to verify the ground characteristics at deeper depths.
6. The pile capacities given above may be taken as a guideline for initial design. Final pile capacities should be confirmed by conducting pile load tests as per IS: 2911-Part-IV.

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7.3 Ground Improvement

7.3.1 Rammed Stone Columns

To improve the bearing capacity of the soil, we suggest the use of rammed stone columns. Rammed stone columns or gravel piles are an effective system to improve the bearing capacity of weak soils⁽²⁾. Ground improvement will also ensure a greater stability in the event of a major earthquake.

Depending upon the desired value of net bearing pressure, the diameter, depth, and spacing between the stone columns may be suitably decided. The design may be optimized based upon the results of load-settlement characteristics of trial columns with respect to an "Acceptance Criterion" to be developed on site.

The technique is a proven method of increasing the bearing capacity cost effectively. Peripheral restraint should be provided so as to ensure performance of the outer row of stone columns.

Trial stone columns may be installed at two or three different spacing at the site. Load testing may be done on these trial stone columns by conducting a plate load test using a plate size of at least 100 x 100 cm.

Over the stone columns, a 200 mm thick compacted gravel blanket should be placed so as to uniformly transfer the load to the stone columns. The RE wall may be constructed over the gravel blanket. The system is effective for large loaded areas.

We shall be pleased to develop the design of the system and also execute it for you, if required.

(2) Sanjay Gupta and Ravi Sundaram, (1996), "*Gravel Piles - Construction and Field Testing*", Proceedings, Seminar on Piles, Indian Geotechnical Society, Delhi Chapter, pp 72 to 81.

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Sheet No. 13

7.3.2 Dynamic Compaction

This involves dropping a heavy weight on a grid pattern in order to compact the loose sands. The weight of the compaction hammer and the spacing between the impact points may be optimized so that the soils to the desired depths are densified. Static cone penetration tests and/or standard penetration tests before and after compaction may be used to determine the effectiveness of the ground improvement process. Open foundations may bear on the improved ground after confirming that the liquefaction potential of the improved bearing soils is low.

7.4 Boundary Wall Foundations (Ignoring Liquefaction)

Strip footings or isolated column footings with interconnecting beam may be provided to support the boundary wall loads if the potential for liquefaction during earthquakes is ignored.

We recommend a minimum foundation embedment depth of 1.2 m for foundations not exceeding 2 m width strip footings bearing on a 50 cm layer of compacted gravel blinded with sand.

Since the soils at shallow depths are loose in condition, the soils below the foundation level should be excavated and replaced by a compacted gravel pad blinded with sand. This gravel pad shall be at least 50 cm thick. This will assist in distributing the loads uniformly over and forming a flexible base so as to control the differential settlements within permissible limits.

A net allowable bearing pressure of $5 \cdot T/m^2$ may be used for the design of boundary wall foundations. The recommended value includes a bearing capacity safety factor of 2.5. The settlements of foundations designed for the above-recommended net bearing pressures is expected to be about 50 mm.

Typical calculations are given at the end of this report on Sheet No's. 9 and 10.

Depending on the groundwater level at the time of construction, dewatering may be required to construct the foundations under dry



8.8 CEA FORMS – 1,2,3 & 4

Annexure 7 (2 of 2)_Feasibility Report_FGD

Annexure-A

CENTRAL ELECTRICITY AUTHORITY

1.	Name of Power Station	GVK POWER (GOINDWAL SAHIB) LIMITED, Punjab,
	Brief description of Plant, Address, Location and Salient Feature	Goindwal Sahib, Dist. – Tarn Taran, Punjab, India
	Detail of two contact persons Mobile no., Email Address, Telephone No. Fax No.	Vikash Chandra Shukla, Sr. VP. 7526920222
2.	Unit size and number	2*270 MW

**CENTRAL ELECTRICITY AUTHORITY
TECHNICAL PARTICULARS OF THE UNIT
(Strike if not applicable and add wherever applicable)**

S. No	Name of Parameter	Design Value at					ACTUAL current Value at				
		BMCR	TMCR	80%	60%	40%	BMCR	TMCR	80%	60% (171 MW)	40%
1.	Main steam at Boiler outlet										
	a) Flow (Tonnes/Hour)	865	796.5	639.9	486.8		786	636	515		
	b) Pressure (Kg/Cm ²)(g)	155	154.1	152.4	151		153	152	152.4		
	c) Temperature (C)	540	540	540	540		542	541	540		
	d) Drum Pressure (Kg/Cm ²)(g)	170.8	167.7	161.5	156.5		165.8	161.2	157.2		
2.	Feed water at Eco Inlet										
	a) Flow (Tonnes/Hour)	865	762.4	596.2	440.5		792	646	519		
	b) Pressure (Kg/Cm ²)(g)	176.1	172.6	165.5	159.8		170.3	165.4	162.2		
	c) Temperature (C)	247.2	246	235.6	222.9		247	238.2	225.2		
3.	M.S. at Turbine Inlet										
	a) Flow (Tonnes/Hour)	865	796.5	639.9	486.8		786	648	515		
	b) Pressure (Kg/Cm ²)(g)		150	150	150		143.9	146.3	148.2		
	c) Temperature (C)		537	537	537		539	538	538		
4.	LP Turbine Inlet										
	a) Flow (Tonnes/Hour)		632.68	515.52	398.85						
	b) Pressure (Kg/Cm ²)(g)		7.33	5.99	4.65		6.1132	4.9	3.7		
	c) Temperature (C)		313.1	314.4	316						
5.	Condenser Vacuum (mmWC)		1032.97	1032.97	1032.97		0.081 kg/cm ² abs	0.079	0.084		

Annexure 7 (2 of 2) Feasibility Report_FGD

S. No	Name of Parameter	Design Value at					ACTUAL current Value at				
		BMCR	TMCR	80%	60%	40%	BMCR	TMCR	80%	60% (171 MW)	40%
6.	Dust Collector										
	a) Type (i.e. Bagfilter/ ESP/ Mechanical dust Collector)	ESP									
	b) Inlet Dust burden (gms/ Nm ³)	45.32									
	c) Outlet dust emission (mg/ Nm ³)	50	50	50	50	50	50	50	50		
	d) No. of bags /electrodes	28									
	e) Specific collection area m ² /Nm ³	221.4									
	f) Hopper Capacity (m ³)										
	g) Pressure Drop across the dust collector (mm WC)	21	20	18	8			21	23	25	
	h) Rapping Mechanism type	hammer									
	i) Chemical Dosing (Yes/No)	NO					NO				
	j) Other Details of the existing dust collector										
7.	ID Fan										
	a) Type	NDZV 33 SIDOR									
	b) Capacity (m ³ /s)	264.5									
	c) Head (mm WC)	+40	+40	+35	+14						
	d) Margin on Flow (%)										
	e) Margin on Head (%)										
	f) Motor Rating (kW)	1950									
	g) Material of Construction for Casing and Impellar										
	h) Design Temperature (°C)	138						115	112	106	
8.	PA Fan										
	a) Type	PAF 17/11.8-2									
	b) Capacity (m ³ /s)	83.5									
	c) Head (mm WC)	910	887	854	826			891	870	853	
	d) Margin on Flow (%)										
	e) Margin on Head (%)										
	f) Motor Rating (kW)	1300									
	g) Material of Construction for Casing and Impellar										
	h) Design Temperature (°C)	50						26	30	32	
9.	FD Fan										
	a) Type	FAF 17/9.5-1									
	b) Capacity (m ³ /s)	116									
	c) Head (mm WC)	359	317	252	180			208	180	150	

Annexure 7 (2 of 2) Feasibility Report_FGD

S. No	Name of Parameter	Design Value at					ACTUAL current Value at				
		BMCR	TMCR	80%	60%	40%	BMCR	TMCR	80%	60% (171 MW)	40%
	d) Margin on Flow (%)										
	e) Margin on Head (%)										
	f) Motor Rating (kW)	850									
	g) Material of Construction for Casing and Impellar										
	h) Design Temperature (°C)	50					18	23	23.5		
10.	Mills										
	a) Types	XRP-883-BOWL MILL									
	b) No. of mills required while firing Design Coal	4					4	4	3		
	c) No. of mills required while firing Worst Coal	5					4	4	3		
	d) Capacity of each mill (t/h)	47.2					43	35	37		
	e) Degree of fitness/fineness	70% through 200 mesh					79%	79%	79%		
11.	Condensate Temperature (°C) Hotwell	45					41.88	41.4	42.36		
12.	Flue gas Exit Temperature (°C)										
	a) After APH	133	133	123	112		130	125	115		
	b) After Economizer	339	335	318	299		343	323	316		
13.	Type of CW system (Open/Closed)	Closed									
14.	CW pump details	Flow – 12945 l – 110 A									
15.	CW flow rate (t/h)	33000									
16.	Temperature rise of cooling water (°C)	7 - 8	7 - 8				8	7.4	7.6		
17.	System wise Auxiliary power consumption		9%	9.5%	10%						

Annexure 7 (2 of 2)_Feasibility Report_FGD

Annexure -B

CENTRAL ELECTRICITY AUTHORITY

Diagrams/PPD	
1	Heat Balance Diagram (All Load Cases)
5	Overall Plot Plan of the Plant (indicating Space Provision for FGD)
7	BTG Layout

Note: All Design and actual performance data may be supported with relevant records.

1. HEAT BALANCE DIAGRAMS

Sl. No.	Document Title	Document Number	REV. NO.
1	270MW 0.1033 ATA B.PR 0%MU.	PE-DC-304-100-N151/1	1
2	216MW 0.1033 ATA B.PR 0%MU.	PE-DC-304-100-N151/2	0
3	162MW 0.1033 ATA B.PR 0%MU.	PE-DC-304-100-N151/3	0
4	135MW 0.1033 ATA B.PR 0%MU.	PE-DC-304-100-N151/4	0
5	270MW 0.1033 ATA B.PR 3%MU.	PE-DC-304-100-N151/5	0
6	270MW 0.1210 ATA 3%MU.	PE-DC-304-100-N151/6	0
7	VVO 0.1033 ATA B.PR 3%MU.	PE-DC-304-100-N151/7	0
8	VVO 0.1033 ATA B.PR 0%MU.	PE-DC-304-100-N151/8	0
9	270 MW 3%MU 0.1033 ATA BACK PR. BOTH HP HEATERS OUT	PE-DC-304-100-N151/9	0
10	270MW 0.1210 ATA 0%MU.	PE-DC-304-100-N151/10	0
11	216MW 0%MU 0.1033 ATA BACK PR. SLIDING PR. OPERATION	PE-DC-304-100-N151/11	0
12	162MW 0%MU 0.1033 ATA BACK PR. SLIDING PR. OPERATION	PE-DC-304-100-N151/12	0
13	135MW 0%MU 0.1033 ATA BACK PR. SLIDING PR. OPERATION	PE-DC-304-100-N151/13	0
14	270 MW 0%MU 0.1033 ATA BACK PR. BOTH HP HEATERS OUT	PE-DC-304-100-N151/14	0
15	HOUSE LOAD OPERATION	PE-DC-304-100-N151/15	0
16	60% HP/LP 0% MU TOP HP HEATER OUT OF SERVICE	PE-DC-304-100-N151/16	0

Brief details for FGD Implementation
Annexure 7 (2 of 2) Feasibility Report_FGD

Name of the plant: **GVK POWER (GOINDWAL SAHIB) LIMITED, Punjab,**

Address: **Goindwal Sahib, Dist. – Tarn Taran, Punjab, India**

Developer/Utility:

Units No: (with capacity, make & Plant design data) – **2*270 MW, BHEL**

Contact Details: (Name, Designation, Mail ID, Phone no. including Mobile No.)

1. (Head of the plant): Vikash Chandra Shukla, Sr. VP.
2. (Overall In charge): Vikash Chandra Shukla
3. (Person responsible for implementation of FGD- On site): M Ramamurthy, Director

Details of PPA:

Sl.No	Unit No.	Capacity	Date of commission	Name of Discoms	Quantum of PPA (in MW)	Duration (in years)	Remarks
1	1	270 MW	06.04.2016	PSPCL	245.7	25	
2	2	270 MW	16.04.2016	PSPCL	245.7	25	

Details of Coal Linkage:

Sl.No	Coal parameters	Details month wise							Remark, if any
		Apr	May	Jun	Jul	Aug	Sep	Oct	
1	Coal Requirement per day (Actual Consumption) MT	0	0	37172.18	99369.86	115860.13	156903.75	123839.20	
2	Source of Coal	E-QUATION							
3	Status of FSA (if any)	-							
4	Grade of Coal/GCV	-							

Present Plant Performance: (From April 2017 to till date)

Annexure 7 (2 of 2)_Feasibility Report_FGD

Generation: (Month wise) MU

Apr	May	Jun	Jul	Aug	Sep	Oct
0	0	59.981	155.000	171.200	247.175	195.703

PLF: (Month wise) %

Apr	May	Jun	Jul	Aug	Sep	Oct
0	0	15.42	38.58	42.61	63.57	48.71

Unit wise detailed Forced Outages: (From April 2017 to till date)

Unit	No. of Outages	Dates	Duration (Hrs.)	Generation Loss	Cause
1	2	17.06.2017	03.65		TG was tripped to check healthiness of Low forward / Reverse power protection system. EHA HPSU OIL TANK TEMPERATURE HIGH 75 DEGREES
1	1	04.07.2017	07.03		Generator Tripped on Class C Protection
1	1	23.07.2017	04.22		Generator 286 A related operated. LV side winding temperature high signal appeared
1	1	01.08.2017	03.46		UAT FIRE PROTECTION CLASS-A
1	1	17.08.2017	03.75		Condenser vacuum low due to mal function of inlet solenoid valve. BOILER TRIPPED DUE TO SAC#1 TRIPPED ON HIGH OIL TEMP, UNIT SYNCHRONISED AT 22:19HRS
1	1	08.09.17	01.28		Oil level low, Governing Oil system due to leakage.
1	1	15.09.17	43.57		Grid Problem (Chola Sahib Line-2)
1	1	21.09.17	03.12		Generator Differential Protection
1	1	22.09.17	05.17		Speed sensor faulty
1	1	18.10.17	09.17		Chola Sahib line#2 tripped from substation. unit tripped on generator differential protection
2	1	3.08.2017	501.70		High Turbine Brg Vibration.
2	1	25.08.2017	06.50		TG Lube Oil Header Pr. Low

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2	1	09.09.2017	02.77		PA Fan tripped due to overload causing loss of all fuel.
2	1	13.09.2017	04.02		GT protection, while changing GT-2 tap position.
2	1	15.09.2017	03.98		Grid Problem (Chola Sahib Line-2)
2	1	21.09.2017	02.00		Generator Differential Protection
2	1	18.10.2017	03.18		Unit tripped on generator differential protection. chola sahib line#2 tripped from substation

Unit wise Plant Maintenance Details: (From April 2017 to till date)

Unit	No. of PM	Dates	Duration(Hrs.)	Generation Loss	Cause
-	-	-	-	-	-
-	-	-	-	-	-

Unit wise Reserve Shut down details: (From April 2017 to till date)

Unit	No. of Reserve Shut Down	Dates	Duration (Hrs.)	Generation Loss	Cause
1	1	26.10.2017	174.83		Low coal stock.
2	1	29.08.2017	205.88		Low coal stock.
2	1	01.10.2017	413.27		Low coal stock

Unit wise Low System Demand details: (From April 2017 to till date)

Unit	Nos	Dates	Duration(Hrs.)	Cause
1	1	29.06.2017	68.55	low power demand from GRID
1	1	02.08.2017	34.21	low power demand from GRID
1	1	01.09.2017	188.50	low power demand from GRID

Unit wise Partial loss details: (From April 2017 to till date)

Unit	No. of Reserve Shut Down	Dates	Duration(Hrs.)	Generation Loss	Cause
-	-	-	-	-	-

Annexure 7 (2 of 2) Feasibility Report_FGD

Year	Data for no. of months	Unit No.	Capacity (MW)	Generation MU: 2017-18 (till last Month) 2016-17, 2015-16, 2014-15,	PLF %: 2017-18 (till last Month) 2016-17, 2015-16, 2014-15,	Name of the Power Station	Name of Utility / Company	Address: Street Name Villages/ City District / Area Name Postal Code (PIN) State	Contact Details- 1 Responsible for implementation of FGD (higher Level) Name of Official and Mobile No.	Contact Details- 1 Responsible for implementation of FGD (higher Level) Email Address	Contact Details- 2 Responsible for implementation of FGD (Plant Level) Name of Official Tel. No. and Mobile No.	Contact Details- 2 Responsible for implementation of FGD (Plant Level) Email Address	Date of Commissioning (MM-DD-YYYY)
2018-19	10	1	270	743.33	37.5	GVK Power (G GVK		Vill. Goindwal Sahib	Mr. PV Prasanna Reddy	pvpreddy@g	Mr. Vikash Chandra Shukla	vc.shukla@gvk.cc	14-Feb-2016
2017-18	12	1	270	1119.289	47.3								
2016-17	12	1	270	85.78	3.6								
2018-19	10	2	270	1155.57	58.3								
2017-18	12	2	270	418.777	17.7								
2016-17	12	2	270	138.686	5.9								

15-Mar-2016

Annexure 7 (2 of 2)_Feasibility Report_FGD

Date of Commercial Operation (MM-DD-YYYY)	Boiler make	Boiler Efficiency Design	Turbine Make	Turbine Heat Rate (Design) (kCal/kWh)	Unit Heat Rate (Operating) (kCal/kWh)	No. of Operating Hours since Commissioning	Energy Generated since commissioning in MU	Unit Peak Load in MW (sustained for one hour) for last one year	Specific Primary FUEL Consumption in kg/kWh (till last Month) 2016-17, 2015-16, 2014-15,	Specific Secondary FUEL consumption in ml/kWh (till last Month) 2017-18 (till last Month) 2016-17, 2015-16, 2014-15,	Auxiliary Power Consumption (%) :2017-18 (till last Month) 2016-17, 2015-16, 2014-15,
6-Apr-2016	BHEL	87.48%	BHEL	1943	2221.079	9540	2005.705	280	0.703	0.904	9.58
	BHEL	87.48%	BHEL	1943	2221.079	4086	1262.375	280	0.698	1.113	9.49
	BHEL	87.48%	BHEL	1943	2221.079	368.45	85.78	280	0.612	2.615	8.69
16-Apr-2016	BHEL	87.48%	BHEL	1943	2221.079	8353	1730.44	280	0.688	0.653	9.73
	BHEL	87.48%	BHEL	1943	2221.079	2721	574.87	280	0.67	1.953	9.54
	BHEL	87.48%	BHEL	1943	2221.079	593.3	138.686	280	0.572	5.83	17.91

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Forced outage (%): 2017-18 (till last Month) 2016-17, 2015-16, 2014-15,	Planned Outage (%) :2017-18 (till last Month) 2016-17, 2015-16, 2014-15,	Operative Availability (%) 2017-18 (till last Month) 2016-17, 2015-16, 2014-15,	Main Name of Coalfield	Main GRADE OF COAL	Average GCV of COAL (Kcal/kg) 2017-18 (till last Month) 2016-17, 2015-16, 2014-15,	Ash (%) of COAL 2017-18 (till last Month) 2016-17, 2015-16, 2014-15,	Moisture (%) of COAL 2017-18 (till last Month) 2016-17, 2015-16, 2014-15,	VM (%) of COAL 2017-18 (till last Month) 2016-17, 2015-16, 2014-15,	H2 (%) of COAL 2017-18 (till last Month) 2016-17, 2015-16, 2014-15,
49.4	0.2	50.4 CCL	G13	3437	32.6	11.71	20.63	0	
35.5	4.6	60 CCL	G12	3754	32.89	11.08	25.54	0	
0	0	4 CCL	G10	4147	32.63	5.68	28.8	0	
19.6	3.8	76.6 CCL	G13	3437	32.6	11.71	20.63	0	
76.6	0.3	23 CCL	G12	3754	32.89	11.08	25.54	0	
0.7	0	7 CCL	G10	4147	32.63	5.68	28.8	0	

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O ₂ (%) of COAL 2017-18 (till last Month) 2016-17, 2015-16, 2014-15,	N ₂ (%) of COAL 2017-18 (till last Month) 2016-17, 2015-16, 2014-15,	C (%) of COAL 2017-18 (till last Month) 2016-17, 2015-16, 2014-15,	S (%) of COAL 2017-18 (till last Month) 2016-17, 2015-16, 2014-15,	Hg (%) of COAL 2017-18 (till last Month) 2016-17, 2015-16, 2014-15,	CO ₂ (%) in FLUE GASES 2017-18 (till last Month) 2016-17, 2015-16, 2014-15,	CO (mg/Nm ³) in FLUE GASES 2017-18 (till last Month) 2016-17, 2015-16, 2014-15,	O ₂ (%) in FLUE GASES 2017-18 (till last Month) 2016-17, 2015-16, 2014-15,	Water Vapour (%) in FLUE GASES 2017-18 (till last Month) 2016-17, 2015-16, 2014-15,	SOX(mg/Nm ³) in FLUE GASES 2017-18 (till last Month) 2016-17, 2015-16, 2014-15,	H ₂ S(mg/Nm ³) in FLUE GASES 2017-18 (till last Month) 2016-17, 2015-16, 2014-15,	AMMONIA (NH ₃)(mg/Nm ³) in FLUE GASES 2017-18 (till last Month) 2016-17, 2015-16, 2014-15,	C (%) in FLUE GASES 2017-18 (till last Month) 2016-17, 2015-16, 2014-15,
0	0	0	0.45	0	14	23.8	3.15	0	1670	0	0	0.5
0	0	0	0.33	0	13.5	25.5	3.55	0	1224	0	0	0.6
0	0	0	0.37	0	14.01	24.2	3.45	0	1373	0	0	0.57
0	0	0	0.45	0	14	25	3.2	0	1689	0	0	0.6
0	0	0	0.33	0	13.68	50.5	3.61	0	1229	0	0	0.498
0	0	0	0.37	0	13.98	42.5	3.58	0	1397	0	0	0.658

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SOLID Dust/ Soot (%) in FLUE GASES 2017-18 (till last Month) 2016-17, 2015-16, 2014-15,	Hg (mg/Nm ³) in FLUE GASES 2017-18 (till last Month) 2016-17, 2015-16, 2014-15,	NOx value (mg/Nm ³) in FLUE GASES 2017-18 (till last Month) 2016-17, 2015-16, 2014-15,	SPM(mg/Nm ³) value in FLUE GASES 2017-18 (till last Month) 2016-17, 2015-16, 2014-15,	FLUE GASES (T/Hour) 2017-18 (till last Month) 2016-17, 2015-16, 2014-15,	Total Air Flow (Tonnes/Hr.) 2017-18 (till last Month) 2016-17, 2015-16, 2014-15,	Average Flue gas temp. at APH outlet	Average Coal Flow (T/hr) 2017-18 (till last Month) 2016-17, 2015-16, 2014-15,	Yearly Coal Consumption (MT) 2017-18 (till last Month) 2016-17, 2015-16, 2014-15,	Yearly Oil Consumption @ average GCV 10,000 Kcal (KL.)
0	0	390	48	955	805.2	138	152	522374	671.91
0	0	350	48.5	332.45	801.33	127.5	138.41	565539	1054.22
0	0	348	45.2	365.56	824.3	128.6	142.41	52471	224.28
0	0	387	45.3	968	808.4	139	153	795566	754.8
0	0	354	24.4	345.33	812.12	126.89	140.34	268097	758.6
0	0	347	42.5	396.56	774.14	129.55	133.75	79351	808.59

Annexure 7 (2 of 2) Feasibility Report_FGD

Sl. No	Year	Month	Date	RR No.	Date of Sampling	Domestic / Imported	Name of Source	Name of Sliding	Received Quantity (MT)	GCV (ADB) Kcal/kg	GCV (ARB) Kcal/kg	Sulphur
1	2015	Oct	18	212000178/14.10.2015	18 October 2015	Domestic	Not available	Linkage Coal	3988.3	4052	3577	
2	2015	Oct	27	212000179/24.10.2015	27 October 2015	Domestic	Not available	Linkage Coal	3782.4	4432	4289	
3	2015	Nov	1	212000180/27.10.2015	01 November 2015	Domestic	Not available	Linkage Coal	3712.9	4026	3791	
4	2015	Nov	7	212000184/04.11.2015	07 November 2015	Domestic	Not available	Linkage Coal	3824.5	3921	3739	
5	2015	Nov	9	212000185/05.11.2015	09 November 2015	Domestic	Not available	Linkage Coal	3430.2	3765	3553	
6	2015	Nov	16	212000187/13.11.2015	16 November 2015	Domestic	Not available	Linkage Coal	3691.4	3743	3532	
7	2015	Dec	7	212000193/04.12.2015	07 December 2015	Domestic	Not available	Linkage Coal	3798.5	3633	3542	
8	2015	Dec	8	212000194/05.12.2015	08 December 2015	Domestic	Not available	Linkage Coal	3823.3	3774	3699	
9	2015	Dec	10	212000195/07.12.2015	10 December 2015	Domestic	Not available	Linkage Coal	3639.3	3778	3609	
10	2015	Dec	14	212000196/11.12.2015	14 December 2015	Domestic	Not available	Linkage Coal	3767.8	3715	3501	
11	2015	Dec	16	212000198/13.12.2015	16 December 2015	Domestic	Not available	Linkage Coal	3739.6	3678	3477	
12	2015	Dec	20	212000199/16.12.2015	20 December 2015	Domestic	Not available	Linkage Coal	3793.5	3786	3593	
13	2016	Jan	1	212000200/29.12.2015	01 January 2016	Domestic	Not available	Linkage Coal	45191.7	3858.6	3658.5	
14	2016	Jan	4	212000201/31.12.2015	04 January 2016	Domestic	Not available	Linkage Coal	3933.1	3766	3589	
15	2016	Jan	5	212000202/01.01.2016	05 January 2016	Domestic	Not available	Linkage Coal	3794.3	3705	3520	
16	2016	Jan	9	212000204/05.01.2016	09 January 2016	Domestic	Not available	Linkage Coal	3654.4	3870	3690	
17	2016	Jan	12	212000205/09.01.2016	12 January 2016	Domestic	Not available	Linkage Coal	3812.8	3706	3522	
18	2016	Jan	15	212000207/12.01.2016	15 January 2016	Domestic	Not available	Linkage Coal	3658.8	3742	3586	
19	2016	Jan	27	212000211/24.01.2016	27 January 2016	Domestic	Not available	Linkage Coal	3714.7	3794	3536	
20	2016	Feb	13	212000213/08.02.2016	13 February 2016	Domestic	Not available	Linkage Coal	3899.7	3781	3608	
21	2016	Feb	25	212000215/17.02.2016	25 February 2016	Domestic	Not available	Linkage Coal	3707.6	3915	3728	
22	2016	Feb	26	212000216/17.02.2016	26 February 2016	Domestic	Not available	Linkage Coal	3750.8	3690	3469	
23	2016	Mar	22	212000223/18.03.2016	22 March 2016	Domestic	Not available	Linkage Coal	3840.2	3865	3661	
24	2016	Mar	22	212000224/19.03.2016	22 March 2016	Domestic	Not available	Linkage Coal	3562.1	4005	3749	0.47
25	2016	Mar	30	212000225/27.03.2016	30 March 2016	Domestic	Not available	Linkage Coal	3607.5	4069	3812	0.48
26	2016	Apr	2	212000226/28.03.2016	02 April 2016	Domestic	Not available	Linkage Coal	3447.0	3793	3492	0.49
27	2016	Apr	3	212000227/29.03.2016	03 April 2016	Domestic	Not available	Linkage Coal	3652.3	3965	3638	0.46
28	2016	Apr	12	212000231/09.04.2016	12 April 2016	Domestic	Not available	Linkage Coal	3620.9	3942	3564	0.47
29	2016	May	26	412000008/24.05.2016	26 May 2016	Domestic	Not available	Linkage Coal	3670.2	3929	3733	0.45
30	2016	May	27	412000001/27.05.2016	27 May 2016	Domestic	Not available	Linkage Coal	3539.5	4748	4651	0.38
31	2016	May	28	412000009/27.05.2016	28 May 2016	Domestic	Not available	Linkage Coal	3918.3	4189	4145	0.42
32	2016	May	28	412000011/27.05.2016	28 May 2016	Domestic	Not available	Linkage Coal	3717.5	4545	4410	0.4
33	2016	May	29	412000010/27.05.2016	29 May 2016	Domestic	Not available	Linkage Coal	3843.0	4434	4386	0.38
34	2016	May	31	412000012/27.05.2016	31 May 2016	Domestic	Not available	Linkage Coal	3606.2	4234	4187	0.42
35	2016	Jun	1	412000013/28.06.2016	01 June 2016	Domestic	Not available	Linkage Coal	3373.3	4743	4595	0.36
36	2016	Jun	7	412000014/05.06.2016	07 June 2016	Domestic	Not available	Linkage Coal	3666.7	4462	4387	0.4
37	2016	Jun	8	412000015/06.06.2016	08 June 2016	Domestic	Not available	Linkage Coal	3005.8	4725	4621	0.35
38	2016	Jun	13	412000017/09.06.2016	13 June 2016	Domestic	Not available	Linkage Coal	3442.8	4847	4769	0.34
39	2016	Jun	13	412000016/09.06.2016	13 June 2016	Domestic	Not available	Linkage Coal	3594.8	4883	4779	0.36
40	2016	Jun	29	112000015/26.06.2016	29 June 2016	Domestic	Not available	Linkage Coal	3450.5	4537	4436	0.34
41	2016	Jul	2	112000016/27.06.2016	02 July 2016	Domestic	Not available	Linkage Coal	3375.0	4701	4612	0.32
42	2016	Jul	2	112000017/28.06.2016	02 July 2016	Domestic	Not available	Linkage Coal	3627.3	4304	4036	0.34
43	2016	Jul	3	112000018/28.06.2016	03 July 2016	Domestic	Not available	Linkage Coal	3512.4	4224	3942	0.32
44	2016	Jul	4	112000020/30.06.2016	04 July 2016	Domestic	Not available	Linkage Coal	3363.3	4563	4290	0.3
45	2016	Jul	5	112000019/30.06.2016	05 July 2016	Domestic	Not available	Linkage Coal	3389.3	4338	4036	0.28
46	2016	Jul	6	112000021/30.06.2016	06 July 2016	Domestic	Not available	Linkage Coal	3312.6	4368	4130	0.35
47	2016	Jul	11	112000022/08.07.2016	11 July 2016	Domestic	Not available	Linkage Coal	3201.3	4517	4340	0.4
48	2016	Jul	14	112000023/10.07.2016	14 July 2016	Domestic	Not available	Linkage Coal	3400.1	4478	4358	0.37
49	2016	Jul	20	112000024/15.07.2016	20 July 2016	Domestic	Not available	Linkage Coal	3246.1	4237	4112	0.33
50	2016	Jul	30	112000043/26.07.2016	30 July 2016	Domestic	Not available	Linkage Coal	3353.0	4187	4032	0.4
51	2016	Jul	30	112000044/27.07.2016	30 July 2016	Domestic	Not available	Linkage Coal	3768.3	3250	3038	0.38
52	2016	Feb	8	112000046/30.07.2016	08 February 2016	Domestic	Not available	Linkage Coal	3791.0	4135	3865	0.4
53	2016	Mar	8	112000047/31.07.2016	08 March 2016	Domestic	Not available	Linkage Coal	3921.7	3968	3821	0.38
54	2016	Sep	8	112000049/05.08.2016	08 September 2016	Domestic	Not available	Linkage Coal	3657.5	4268	4102	0.38
55	2016	Oct	5	112000089/01.10.2016	05 October 2016	Domestic	Not available	Linkage Coal	3677.2	4392	4156	0.38
56	2016	Oct	19	112000103/14.10.2016	19 October 2016	Domestic	Not available	Linkage Coal	2607.0	4257	3917	0.38
57	2016	Dec	27	112000126/23.12.2016	27 December 2016	Domestic	Not available	Linkage Coal	3449.5	4307	4070	0.38
58	2017	Jan	11	212000252/05.01.2017	11 January 2017	Domestic	Not available	Linkage Coal	161036.8	4194.1	4006.2	0.4
59	2017	Feb	14	412000094/10.02.2017	14 February 2017	Domestic	Not available	Linkage Coal	3438.0	4280	3927	0.32
60	2017	May	31	412000002/27.05.2017	31 May 2017	Domestic	Not available	Linkage Coal	4050.8	4109	3768	0.4
61	2017	Jun	2	412000033/20.05.2017	02 June 2017	Domestic	Not available	BARKAKANA	4164.0	4232	3969	0.49
62	2017	Jun	3	112000166/30.05.2017	03 June 2017	Domestic	Not available	BACHRA	3220.2	4337	4178	0.47
63	2017	Jun	5	112000188/01.06.2017	05 June 2017	Domestic	Not available	DUGDHA	3321.3	4337	4002	0.39
64	2017	Jun	7	412000035/03.06.2017	07 June 2017	Domestic	Not available	DUGDHA	3615.2	4924	4587	0.38
65	2017	Jun	7	41200004/04.06.2017	07 June 2017	Domestic	Not available	BACHRA	3394.5	4054	3872	0.42
66	2017	Jun	9	412000039/07.06.2017	09 June 2017	Domestic	Not available	BARKAKANA	4238.0	3405	3219	0.35
67	2017	Jun	13	412000041/10.06.2017	13 June 2017	Domestic	Not available	BACHRA	3543.6	3472	3363	0.4
68	2017	Jun	13	412000040/09.06.2017	13 June 2017	Domestic	Not available	BACHRA	3408.0	4069	3931	0.38
69	2017	Jun	14	112000171/07.06.2017	14 June 2017	Domestic	Not available	BACHRA	3681.7	3970	3827	0.41
70	2017	Jun	16	112000172/13.06.2017	16 June 2017	Domestic	Not available	DUGDHA	3662.9	4283	4167	0.31
71	2017	Jun	16	412000005/13.06.2016	16 June 2017	Domestic	Not available	DUGDHA	3728.1	4651	4516	0.34
72	2017	Jun	18	412000043/16.06.2017	18 June 2017	Domestic	Not available	BARKAKANA	3644.9	4220	4056	0.36
73	2017	Jun	21	412000007/17.06.2017	21 June 2017	Domestic	Not available	BACHRA	3600.9	4314	4159	0.38
74	2017	Jun	22	412000044/18.06.2017	22 June 2017	Domestic	Not available	BARKAKANA	3927.5	4210	4043	0.34
75	2017	Jun	23	412000046/20.06.2017	23 June 2017	Domestic	Not available	BACHRA	3669.5	4350	4237	0.38
76	2017	Jun	24	412000047/21.06.2017	24 June 2017	Domestic	Not available	BACHRA	3601.6	3820	3707	0.34
77	2017	Jun	24	412000048/22.06.2017	24 June 2017	Domestic	Not available	BACHRA	3488.1	4150	3981	0.36
78	2017	Jun	25	412000045/19.06.2017	25 June 2017	Domestic	Not available	BACHRA	3793.3	4095	3927	0.38
79	2017	Jun	27	412000049/24.06.2017	27 June 2017	Domestic	Not available	BACHRA	3680.3	3744	3704	0.38
80	2017	Jun	30	412000050/27.06.2017	30 June 2017	Domestic	Not available	BACHRA	3632.2	4234	4148	0.4
81	2017	Jul	4	412000051/01.07.2017	04 July 2017	Domestic	Not available	BACHRA	3873.3	3615	3425	0.36
									3584.6	4018	3699	0.38

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Reake No	Year	Month	Date	RR No.	Date of Sampling	Domestic / Imported	Name of Source	Name of Siding	Received Quantity (MT)	GCV (ADB) Kcal/kg	GCV (ARB) Kcal/kg	Sulphur
82	2017	Jul	10	412000052/07.07.2017	10 July 2017	Domestic	Not available	BACHRA	3934.9	3863	3585	0.38
83	2017	Jul	11	412000053/08.07.2017	11 July 2017	Domestic	Not available	BACHRA	3555.6	3156	2978	0.34
84	2017	Jul	15	412000054/12.07.2017	15 July 2017	Domestic	Not available	BACHRA	3420.7	3613	3373	0.36
85	2017	Jul	18	412000055/14.07.2017	18 July 2017	Domestic	Not available	BACHRA	3512.0	3897	3689	0.38
86	2017	Jul	19	412000056/16.07.2017	19 July 2017	Domestic	Not available	BACHRA	3691.2	3790	3545	0.38
87	2017	Jul	20	412000057/16.07.2017	20 July 2017	Domestic	Not available	BACHRA	3620.9	3981	3961	0.4
88	2017	Jul	21	412000058/17.07.2017	21 July 2017	Domestic	Not available	BACHRA	3808.9	3980	3879	0.38
89	2017	Jul	24	412000059/20.07.2017	24 July 2017	Domestic	Not available	BACHRA	3717.2	3927	3692	0.36
90	2017	Jul	25	412000060/22.07.2017	25 July 2017	Domestic	Not available	BACHRA	3867.1	3918	3768	0.36
91	2017	Jul	25	412000061/22.07.2017	25 July 2017	Domestic	Not available	BACHRA	3634.3	3783	3545	0.38
92	2017	Jul	26	412000062/24.07.2017	26 July 2017	Domestic	Not available	KSNT	3531.6	4080	3804	0.34
93	2017	Jul	27	412000062/24.07.2017	27 July 2017	Domestic	Not available	BACHRA	3797.2	3975	3788	0.38
94	2017	Jul	31	412000022/24.07.2017	31 July 2017	Domestic	Not available	BARKAKANA	3711.2	4126	3603	0.39
95	2017	Aug	2	412000024/29.07.2017	02 August 2017	Domestic	Not available	BARKAKANA	3525.3	4481	4118	0.34
96	2017	Aug	2	412000063/30.07.2017	02 August 2017	Domestic	Not available	BACHRA	3732.8	3559	3420	0.36
97	2017	Aug	2	412000023/29.07.2017	02 August 2017	Domestic	Not available	BARKAKANA	3549.2	4210	3867	0.34
98	2017	Aug	4	412000026/31.07.2017	04 August 2017	Domestic	Not available	BARKAKANA	3648.9	4690	4476	0.32
99	2017	Aug	5	412000027/1.08.2017	05 August 2017	Domestic	Not available	BARKAKANA	3688.8	4359	4072	0.3
100	2017	Aug	6	412000029/2.08.2017	06 August 2017	Domestic	Not available	BARKAKANA	3691.6	4712	4262	0.34
101	2017	Aug	6	412000030/4.08.2017	06 August 2017	Domestic	Not available	BARKAKANA	3428.8	4250	3886	0.32
102	2017	Aug	7	412000064/31.07.2017	07 August 2017	Domestic	Not available	BACHRA	3610.5	3620	3473	0.38
103	2017	Aug	7	412000031/04.08.2017	07 August 2017	Domestic	Not available	BARKAKANA	3582.7	4558	4286	0.34
104	2017	Aug	8	412000032/05.08.2017	08 August 2017	Domestic	Not available	BARKAKANA	3763.1	4760	4470	0.36
105	2017	Aug	9	412000033/06.08.2017	09 August 2017	Domestic	Not available	BARKAKANA	3741.6	4692	4208	0.34
106	2017	Aug	9	412000034/06.08.2017	09 August 2017	Domestic	Not available	BARKAKANA	3828.9	4359	4078	0.3
107	2017	Aug	10	412000065/07.08.2017	10 August 2017	Domestic	Not available	BACHRA	3478.5	3769	3545	0.38
108	2017	Aug	10	212000193/07.08.2017	10 August 2017	Domestic	Not available	KSNT	3408.7	4198	3809	0.38
109	2017	Aug	10	412000035/06.08.2017	10 August 2017	Domestic	Not available	BARKAKANA	3884.2	4718	4001	0.32
110	2017	Aug	11	412000066/11.08.2017	11 August 2017	Domestic	Not available	BACHRA	3349.0	3637	3564	0.36
111	2017	Aug	12	412000067/09.8.2017	12 August 2017	Domestic	Not available	BACHRA	3604.3	3646	3560	0.34
112	2017	Aug	13	412000068/10.08.2017	13 August 2017	Domestic	Not available	BACHRA	3684.7	3775	3536	0.34
113	2017	Aug	13	112000007/09.08.2017	13 August 2017	Domestic	Not available	BERMO	3701.6	4809	4748	0.3
114	2017	Aug	14	412000040/10.08.2017	14 August 2017	Domestic	Not available	BARKAKANA	3690.2	4954	4817	0.34
115	2017	Aug	14	412000043/11.08.2017	14 August 2017	Domestic	Not available	BARKAKANA	3736.3	4578	4277	0.3
116	2017	Aug	15	412000042/11.08.2017	15 August 2017	Domestic	Not available	BARKAKANA	3746.9	4773	4523	0.34
117	2017	Aug	15	112000003/10.08.2017	15 August 2017	Domestic	Not available	BERMO	3566.6	4688	4387	0.28
118	2017	Aug	16	412000069/11.08.2017	16 August 2017	Domestic	Not available	BACHRA	3450.6	4183	4041	0.36
119	2017	Aug	17	412000045/13.08.2017	17 August 2017	Domestic	Not available	BARKAKANA	3813.3	4744	4223	0.34
120	2017	Aug	18	412000070/13.08.2017	18 August 2017	Domestic	Not available	BACHRA	3491.2	3702	3557	0.36
121	2017	Aug	19	412000046/14.08.2017	19 August 2017	Domestic	Not available	BARKAKANA	3713.1	4539	4382	0.34
122	2017	Aug	20	412000071/16.08.2017	20 August 2017	Domestic	Not available	BACHRA	3791.9	3817	3498	0.36
123	2017	Aug	21	412000072/19.08.2017	21 August 2017	Domestic	Not available	BACHRA	3864.3	3907	3664	0.34
124	2017	Aug	31	412000013/25.08.2017	31 August 2017	Domestic	Not available	PTRU	3756.9	3935	3523	0.32
125	2017	Aug	31	412000058/29.08.2017	31 August 2017	Domestic	Not available	BARKAKANA	3605.3	4435	4091	0.3
126	2017	Sep	1	412000057/25.08.2017	01 September 2017	Domestic	Not available	BARKAKANA	3557.9	4526	4121	0.32
127	2017	Sep	3	412000012/25.08.2017	03 September 2017	Domestic	Not available	PTRU	3632.3	4283	3837	0.34
128	2017	Sep	4	412000061/30.08.2017	04 September 2017	Domestic	Not available	BARKAKANA	3847.7	4724	4374	0.34
129	2017	Sep	4	412000008/31.08.2017	04 September 2017	Domestic	Not available	KSNT	3473.6	4216	4158	0.36
130	2017	Sep	4	412000062/31.08.2017	04 September 2017	Domestic	Not available	BARKAKANA	3754.6	4731	4189	0.3
131	2017	Sep	4	412000060/27.08.2017	04 September 2017	Domestic	Not available	BARKAKANA	3597.0	4489	4113	0.3
132	2017	Sep	5	412000066/02.09.2017	05 September 2017	Domestic	Not available	BARKAKANA	3690.0	5006	4390	0.32
133	2017	Sep	5	412000065/02.09.2017	05 September 2017	Domestic	Not available	BARKAKANA	3608.9	4525	3990	0.3
134	2017	Sep	7	412000011/04.09.2017	07 September 2017	Domestic	Not available	KSNT	3726.8	4047	3899	0.34
135	2017	Sep	7	412000068/04.09.2017	07 September 2017	Domestic	Not available	BARKAKANA	3690.9	4246	4191	0.3
136	2017	Sep	7	412000067/03.09.2017	07 September 2017	Domestic	Not available	BARKAKANA	3761.5	4592	4344	0.32
137	2017	Sep	8	412000019/04.09.2017	08 September 2017	Domestic	Not available	PTRU	3565.1	4020	3662	0.34
138	2017	Sep	8	412000012/05.09.2017	08 September 2017	Domestic	Not available	KSNT	3874.5	3600	3423	0.32
139	2017	Sep	8	412000069/06.09.2017	08 September 2017	Domestic	Not available	BARKAKANA	3872.8	4490	4274	0.34
140	2017	Sep	10	412000010/03.09.2017	10 September 2017	Domestic	Not available	KSNT	3461.9	3930	3595	0.34
141	2017	Sep	11	412000015/08.09.2017	11 September 2017	Domestic	Not available	KSNT	3607.9	3602	3282	0.3
142	2017	Sep	11	412000022/07.09.2017	11 September 2017	Domestic	Not available	PTRU	3590.8	4001	3526	0.32
143	2017	Sep	11	412000075/08.09.2017	11 September 2017	Domestic	Not available	BARKAKANA	3581.4	4597	4238	0.34
144	2017	Sep	11	412000074/08.09.2017	11 September 2017	Domestic	Not available	BARKAKANA	3593.0	4560	4394	0.3
145	2017	Sep	12	412000078/11.09.2017	12 September 2017	Domestic	Not available	BARKAKANA	3586.6	4619	4428	0.34
146	2017	Sep	13	412000076/09.09.2017	13 September 2017	Domestic	Not available	BARKAKANA	3661.3	4586	4473	0.36
147	2017	Sep	13	412000023/08.09.2017	13 September 2017	Domestic	Not available	PTRU	3422.6	4002	3616	0.32
148	2017	Sep	13	412000025/10.09.2017	13 September 2017	Domestic	Not available	PTRU	3885.2	4175	3771	0.3
149	2017	Sep	14	412000017/10.09.2017	14 September 2017	Domestic	Not available	KSNT	3622.5	4125	3898	0.34
150	2017	Sep	15	412000024/09.09.2017	15 September 2017	Domestic	Not available	PTRU	3907.9	4120	3752	0.36
151	2017	Sep	16	412000026/12.09.2017	16 September 2017	Domestic	Not available	PTRU	3755.5	4160	3689	0.32
152	2017	Sep	16	412000073/14.09.2017	16 September 2017	Domestic	Not available	BACHRA	3860.9	4256	3969	0.36
153	2017	Sep	20	412000027/15.09.2017	20 September 2017	Domestic	Not available	PTRU	3617.4	4299	3742	0.34
154	2017	Sep	21	412000001/17.09.2017	21 September 2017	Domestic	Not available	BHKD	3678.6	4302	4105	0.3
155	2017	Sep	23	412000002/19.09.2017	23 September 2017	Domestic	Not available	BHKD	3634.3	4142	3651	0.36
156	2017	Sep	24	412000001/21.09.2017	24 September 2017	Domestic	Not available	GOLA	3635.8	4943	4616	0.32
157	2017	Sep	24	412000030/19.09.2017	24 September 2017	Domestic	Not available	PTRU	3568.2	4276	3700	0.36
158	2017	Sep	25	412000032/20.09.2017	25 September 2017	Domestic	Not available	PTRU	3821.7	4190	3450	0.34
159	2017	Sep	25	412000003/21.09.2017	25 September 2017	Domestic	Not available	BHKD	3762.8	4280	3871	0.28
160	2017	Sep	25	412000031/27.09.2017	25 September 2017	Domestic	Not available	PTRU	3514.1	4304	3638	0.34
161	2017	Sep	25	412000002/22.09.2017	25 September 2017	Domestic	Not available	GOLA	4035.9	4409	3928	0.3
162	2017	Sep	26	412000033/21.09.2017	26 September 2017	Domestic	Not available	PTRU	3649.1	4545	3940	0.34
163	2017	Sep	26	412000003/23.09.2017	26 September 2017	Domestic	Not available	GOLA	3951.7	4294	4015	0.28
164	2017	Sep	27	412000034/23.09.2017	27 September 2017	Domestic	Not available	PTRU	3451.6	4258	3680	0.34
165	2017	Sep	27	412000004/23.09.2017	27 September 2017	Domestic	Not available	GOLA	3995.0	4880	4559	0.32

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Rake No	Year	Month	Date	RR No.	Date of Sampling	Domestic / Imported	Name of Source	Name of Siding	Received Quantity (MT)	GCV (ADB) Kcal/kg	GCV (ARB) Kcal/kg	Sulphur
166	2017	Sep	28	41200004/23.09.2017	28 September 2017	Domestic	Not available	BHKD	3817.2	4221	3834	0.32
167	2017	Sep	29	412000035/24.09.2017	29 September 2017	Domestic	Not available	PTRU	3358.0	4268	3653	0.34
168	2017	Oct	1	412000096/27.09.2017	01 October 2017	Domestic	Not available	BARKAKANA	3652.9	4362	3726	0.3
169	2017	Oct	2	412000038/28.09.2017	02 October 2017	Domestic	Not available	PTRU	3424.2	4280	3811	0.32
170	2017	Oct	2	412000039/28.09.2017	02 October 2017	Domestic	Not available	PTRU	3633.0	4002	3469	0.34
171	2017	Oct	3	412000006/30.09.2017	03 October 2017	Domestic	Not available	BHKD	3505.6	4156	4091	0.34
172	2017	Oct	7	412000012/04.10.2017	07 October 2017	Domestic	Not available	GOLA	3114.5	3740	3287	0.28
173	2017	Oct	7	412000040/03.10.2017	07 October 2017	Domestic	Not available	PTRU	3721.2	3829	3608	0.3
174	2017	Oct	7	412000104/04.10.2017	07 October 2017	Domestic	Not available	BARKAKANA	3750.6	5354	5021	0.34
175	2017	Oct	7	412000013/04.10.2017	07 October 2017	Domestic	Not available	GOLA	3518.1	5384	5151	0.32
176	2017	Oct	7	412000011/03.10.2017	07 October 2017	Domestic	Not available	GOLA	3577.9	5011	4599	0.32
177	2017	Oct	8	412000106/05.10.2017	08 October 2017	Domestic	Not available	BARKAKANA	3900.1	5298	4940	0.34
178	2017	Oct	8	412000009/05.10.2017	08 October 2017	Domestic	Not available	BHKD	3512.8	4020	3992	0.34
179	2017	Oct	10	412000010/08.10.2017	10 October 2017	Domestic	Not available	BHKD	3861.8	4353	4036	0.32
180	2017	Oct	11	412000110/06.10.2017	11 October 2017	Domestic	Not available	BARKAKANA	3741.7	4711	4418	0.32
181	2017	Oct	11	412000041/11.10.2017	11 October 2017	Domestic	Not available	PTRU	3920.3	3500	3248	0.3
182	2017	Oct	12	412000042/12.10.2017	12 October 2017	Domestic	Not available	PTRU	3703.4	4250	3681	0.36
183	2017	Oct	13	4120000112/13.10.2017	13 October 2017	Domestic	Not available	BARKAKANA	3735.0	4661	4272	0.32
184	2017	Oct	14	412000012/09.10.2017	14 October 2017	Domestic	Not available	BHKD	3473.3	4100	3818	0.32
185	2017	Oct	15	412000014/12.10.2017	15 October 2017	Domestic	Not available	BARKAKANA	3753.2	4859	4436	0.36
186	2017	Oct	16	412000017/12.10.2017	16 October 2017	Domestic	Not available	GOLA	3871.8	4331	4106	0.32
187	2017	Oct	16	412000013/12.10.2017	16 October 2017	Domestic	Not available	BHKD	3552.8	4085	3791	0.34
188	2017	Oct	16	412000115/13.10.2017	16 October 2017	Domestic	Not available	BARKAKANA	3517.6	3515	3122	0.28
189	2017	Oct	17	412000018/13.10.2017	17 October 2017	Domestic	Not available	GOLA	3708.7	3680	3236	0.3
190	2017	Oct	17	412000074/14.10.2017	17 October 2017	Domestic	Not available	BACHRA	3808.6	4225	3963	0.36
191	2017	Oct	18	412000022/16.10.2017	18 October 2017	Domestic	Not available	GOLA	3617.6	3538	3089	0.28
192	2017	Oct	20	412000018/17.10.2017	20 October 2017	Domestic	Not available	BHKD	3718.3	4082	3882	0.32
193	2017	Oct	22	412000023/18.10.2017	22 October 2017	Domestic	Not available	GOLA	3830.8	3340	2933	0.3
194	2017	Oct	22	412000017/17.10.2017	22 October 2017	Domestic	Not available	BHKD	3597.2	3831	3620	0.36
195	2017	Oct	23	412000028/20.10.2017	23 October 2017	Domestic	Not available	GOLA	3719.0	3808	3272	0.3
196	2017	Oct	24	412000025/19.10.2017	24 October 2017	Domestic	Not available	GOLA	3698.8	3716	3315	0.34
197	2017	Oct	24	412000075/18.10.2017	24 October 2017	Domestic	Not available	BACHRA	3384.0	3906	3539	0.36
198	2017	Oct	27	412000076/24.10.2017	27 October 2017	Domestic	Not available	BACHRA	3670.5	3850	3479	0.38
199	2017	Oct	27	412000030/24.10.2017	27 October 2017	Domestic	Not available	GOLA	3792.9	3954	3451	0.3
200	2017	Oct	28	412000029/24.10.2017	28 October 2017	Domestic	Not available	GOLA	3626.7	4085	3546	0.32
201	2017	Oct	29	412000031/24.10.2017	29 October 2017	Domestic	Not available	GOLA	3655.8	3910	3348	0.3
202	2017	Oct	30	412000033/26.10.2017	30 October 2017	Domestic	Not available	GOLA	3599.2	3929	3567	0.3
203	2017	Oct	31	412000180/26.10.2017	31 October 2017	Domestic	Not available	Hatiya	2891.3	3958	3518	0.34
204	2017	Nov	1	412000125/28.10.2017	01 November 2017	Domestic	Not available	BARKAKANA	3606.8	4228	3688	0.32
205	2017	Nov	1	412000034/27.10.2017	01 November 2017	Domestic	Not available	GOLA	3526.6	3989	3566	0.3
206	2017	Nov	1	412000077/29.10.2017	01 November 2017	Domestic	Not available	BACHRA	3470.1	3929	3661	0.36
207	2017	Nov	1	412000053/28.10.2017	01 November 2017	Domestic	Not available	BRRB	3725.2	3625	3233	0.36
208	2017	Nov	3	412000036/29.10.2017	03 November 2017	Domestic	Not available	GOLA	3486.2	3980	3501	0.32
209	2017	Nov	3	412000181/29.10.2017	03 November 2017	Domestic	Not available	HTE	3919.8	3988	3706	0.34
210	2017	Nov	3	412000078/31.10.2017	03 November 2017	Domestic	Not available	BACHRA	3528.8	4281	3961	0.36
211	2017	Nov	3	412000057/30.10.2017	03 November 2017	Domestic	Not available	BRRB	3526.6	3812	3440	0.34
212	2017	Nov	4	412000035/28.10.2017	04 November 2017	Domestic	Not available	GOLA	3539.1	3985	3597	0.3
213	2017	Nov	5	412000060/31.10.2017	05 November 2017	Domestic	Not available	BRRB	3495.3	3780	3384	0.35
214	2017	Nov	5	412000079/01.11.2017	05 November 2017	Domestic	Not available	BACHRA	3843.4	4066	3727	0.32
215	2017	Nov	7	412000063/03.11.2017	07 November 2017	Domestic	Not available	BRRB	3410.5	3915	3603	0.3
216	2017	Nov	9	412000064/04.11.2017	09 November 2017	Domestic	Not available	BRRB	3341.3	4164	3814	0.36
217	2017	Nov	10	412000080/06.11.2017	10 November 2017	Domestic	Not available	BACHRA	3583.1	3969	3795	0.34
218	2017	Nov	11	412000021/06.11.2017	11 November 2017	Domestic	Not available	BHKD	3778.7	4239	3925	0.33
219	2017	Nov	13	412000081/09.11.2017	13 November 2017	Domestic	Not available	BACHRA	3589.0	4228	3953	0.36
220	2017	Nov	15	412000022/11.11.2017	15 November 2017	Domestic	Not available	BHKD	3870.1	4563	4179	0.33
221	2017	Nov	17	412000082/14.11.2017	17 November 2017	Domestic	Not available	BACHRA	3571.6	4173	3941	0.32
222	2017	Nov	20	412000038/16.11.2017	20 November 2017	Domestic	Not available	BACHRA	3797.9	4098	3859	0.35
223	2017	Nov	20	212000065/17.11.2017	20 November 2017	Domestic	Not available	BRRB	3047.2	4808	4355	0.36
224	2017	Nov	22	212000066/18.11.2017	22 November 2017	Domestic	Not available	BRRB	3134.9	4944	4268	0.33
225	2017	Nov	22	212000067/18.11.2017	22 November 2017	Domestic	Not available	BRRB	3140.9	3926	3433	0.31
226	2017	Nov	22	412000084/19.11.2017	22 November 2017	Domestic	Not available	BACHRA	3385.8	3397	3194	0.32
227	2017	Nov	23	412000052/19.11.2017	23 November 2017	Domestic	Not available	GOLA	3991.9	3920	3769	0.36
228	2017	Nov	23	212000068/19.11.2017	23 November 2017	Domestic	Not available	BRRB	3108.1	3777	3441	0.33
229	2017	Nov	24	212000070/20.11.2017	24 November 2017	Domestic	Not available	BRRB	3399.7	4060	3623	0.32
230	2017	Nov	24	412000132/21.11.2017	24 November 2017	Domestic	Not available	BARKAKANA	3743.3	3239	3000	0.38
231	2017	Nov	24	412000001/19.11.2017	24 November 2017	Domestic	Not available	VAA	3552.6	4253	3779	0.35
232	2017	Nov	24	412000055/21.11.2017	24 November 2017	Domestic	Not available	PTRU	3808.1	3836	3477	0.32
233	2017	Nov	25	212000069/19.11.2017	25 November 2017	Domestic	Not available	BRRB	3327.7	4272	3905	0.34
234	2017	Nov	26	412000085/23.11.2017	26 November 2017	Domestic	Not available	BACHRA	3354.9	4048	3808	0.34
235	2017	Nov	26	212000071/20.11.2017	26 November 2017	Domestic	Not available	BRRB	3289.0	4263	3709	0.34
236	2017	Nov	26	412000133/23.11.2017	26 November 2017	Domestic	Not available	BARKAKANA	3873.8	3766	3815	0.38
237	2017	Nov	26	412000002/22.11.2017	26 November 2017	Domestic	Not available	VAA	3348.5	4225	3802	0.34
238	2017	Nov	27	212000072/22.11.2017	27 November 2017	Domestic	Not available	BRRB	3385.3	4485	4013	0.36
239	2017	Dec	1	412000037/27.11.2017	01 December 2017	Domestic	Not available	VAA	3564.6	3252	3204	0.34
240	2017	Dec	1	412000055/28.11.2017	01 December 2017	Domestic	Not available	GOLA	3876.5	3752	3572	0.35
241	2017	Dec	2	212000076/26.11.2017	02 December 2017	Domestic	Not available	BRRB	3374.4	3714	3390	0.35
242	2017	Dec	3	212000078/28.11.2017	03 December 2017	Domestic	Not available	BRRB	3243.1	3994	3701	0.34
243	2017	Dec	4	412000086/30.11.2017	04 December 2017	Domestic	Not available	BHKD	3806.8	3768	3536	0.32
244	2017	Dec	6	412000001/03.12.2017	06 December 2017	Domestic	Not available	VAA	3894.6	3117	2896	0.26
245	2017	Dec	6	412000057/02.12.2017	06 December 2017	Domestic	Not available	PTRU	3743.1	3505	3169	0.28
246	2017	Dec	6	412000087/02.12.2017	06 December 2017	Domestic	Not available	BHKD	3603.5	3578	3310	0.3
247	2017	Dec	7	212000082/03.12.2017	07 December 2017	Domestic	Not available	BRRB	3383.7	3960	3679	0.34
248	2017	Dec	8	412000005/05.12.2017	08 December 2017	Domestic	Not available	VHAGA	3466.4	3375	3266	0.24
249	2017	Dec	8	412000024/05.12.2017	08 December 2017	Domestic	Not available	VAA	3553.8	3946	3444	0.28

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Rank No	Year	Month	Date	RR No.	Date of Sampling	Domestic / Imported	Name of Source	Name of Siding	Received Quantity (MT)	GCV (ADB) Kcal/kg	GCV (ARB) Kcal/kg	Sulphur
250	2017	Dec	9	41200006/07.12.2017	09 December 2017	Domestic	Not available	VAA	3254.9	3435	3372	0.26
251	2017	Dec	10	21200085/05.12.2017	10 December 2017	Domestic	Not available	BRRB	3492.4	4076	3715	0.34
252	2017	Dec	10	41200002/07.12.2017	10 December 2017	Domestic	Not available	CHRI	3854.3	4431	4304	0.31
253	2017	Dec	12	412000059/10.12.2017	12 December 2017	Domestic	Not available	GOLA	3815.4	4583	4431	0.34
254	2017	Dec	12	412000058/10.12.2017	12 December 2017	Domestic	Not available	PTRU	3895.9	3848	3745	0.33
255	2017	Dec	13	41200003/09.12.2017	13 December 2017	Domestic	Not available	CHRI	3769.9	3888	3658	0.29
256	2017	Dec	14	41200007/10.12.2017	14 December 2017	Domestic	Not available	VAA	3555.9	3369	3210	0.26
257	2017	Dec	14	41200006/11.12.2017	14 December 2017	Domestic	Not available	GOLA	3746.5	3825	3788	0.32
258	2017	Dec	15	21200088/08.12.2017	15 December 2017	Domestic	Not available	BRRB	3469.2	4356	4184	0.32
259	2017	Dec	15	21200009/10.12.2017	15 December 2017	Domestic	Not available	BRRB	3621.1	4119	3693	0.34
260	2017	Dec	15	41200008/12.12.2017	15 December 2017	Domestic	Not available	VAA	3434.9	4199	4122	0.24
261	2017	Dec	15	21200009/11.12.2017	15 December 2017	Domestic	Not available	BRRB	3470.0	3859	3442	0.31
262	2017	Dec	15	41200009/14.12.2017	15 December 2017	Domestic	Not available	VAA	3517.0	3434	3143	0.28
263	2017	Dec	15	412000192/15.12.2017	15 December 2017	Domestic	Not available	MHDA	3803.4	4301	4172	0.3
264	2017	Dec	15	41200004/09.12.2017	15 December 2017	Domestic	Not available	CHRI	3324.3	4140	3734	0.33
265	2017	Dec	16	41200008/12.12.2017	16 December 2017	Domestic	Not available	CHRI	3597.5	4186	4081	0.31
266	2017	Dec	16	41200005/10.12.2017	16 December 2017	Domestic	Not available	CHRI	3522.6	4134	3652	0.32
267	2017	Dec	17	412000186/11.12.2017	17 December 2017	Domestic	Not available	MHDA	3436.5	4540	4141	0.28
268	2017	Dec	18	41200006/11.12.2017	18 December 2017	Domestic	Not available	CHRI	3565.5	4293	4132	0.32
269	2017	Dec	18	41200007/11.12.2017	18 December 2017	Domestic	Not available	CHRI	3379.2	3639	3252	0.29
270	2017	Dec	20	41200009/13.12.2017	20 December 2017	Domestic	Not available	CHRI	3620.5	3534	3171	0.28
271	2017	Dec	21	41200010/17.12.2017	21 December 2017	Domestic	Not available	CHRI	3623.1	4731	4628	0.34
272	2017	Dec	28	41200020/124.12.2017	28 December 2017	Domestic	Not available	MHDA	3485.4	4519	4225	0.31
273	2017	Dec	28	41200011/24.12.2017	28 December 2017	Domestic	Not available	CHRI	3391.1	4135	3747	0.32
274	2017	Dec	28	412000202/25.12.2017	28 December 2017	Domestic	Not available	MHDA	3696.9	4289	4119	0.29
275	2017	Dec	29	412000205/25.12.2017	29 December 2017	Domestic	Not available	MHDA	3852.7	4561	4307	0.28
276	2017	Dec	29	412000139/24.12.2017	29 December 2017	Domestic	Not available	BRKA	3917.7	4141	3846	0.36
277	2017	Dec	29	412000204/25.12.2017	29 December 2017	Domestic	Not available	MHDA	3581.3	4281	4152	0.32
278	2017	Dec	30	412000138/24.12.2017	30 December 2017	Domestic	Not available	BRKA	3895.5	4541	4372	0.32
279	2017	Dec	30	412000208/27.12.2017	30 December 2017	Domestic	Not available	MHDA	3675.2	4501	4150	0.31
280	2017	Dec	31	412000209/28.12.2017	31 December 2017	Domestic	Not available	MHDA	3602.3	4289	4019	0.28
281	2018	Jan	1	412000211/29.12.2017	01 January 2018	Domestic	Not available	MHDA	809184.1	4144.2	3838.9	0.3
282	2018	Jan	13	412000081/10.01.2018	13 January 2018	Domestic	Not available	GOLA	3746.6	3954	3655	0.27
283	2018	Jan	16	412000082/12.01.2018	16 January 2018	Domestic	Not available	GOLA	3523.1	4701	4309	0.34
284	2018	Jan	17	412000083/14.01.2018	17 January 2018	Domestic	Not available	GOLA	3921.7	4207	3889	0.32
285	2018	Jan	24	412000015/21.01.2018	24 January 2018	Domestic	Not available	GOLA	4199.5	4220	3981	0.33
286	2018	Jan	26	412000016/23.01.2018	26 January 2018	Domestic	Not available	VAA	3591.5	2881	2715	0.27
287	2018	Jan	26	412000085/23.01.2018	26 January 2018	Domestic	Not available	VAA	3422.4	4103	3870	0.29
288	2018	Jan	27	412000017/24.01.2018	27 January 2018	Domestic	Not available	GOLA	3450.2	3251	2995	0.39
289	2018	Jan	27	212000107/24.01.2018	27 January 2018	Domestic	Not available	VAA	3267.9	2932	2788	0.24
290	2018	Jan	28	212000108/24.01.2018	28 January 2018	Domestic	Not available	BRRB	3562.5	4187	3856	0.31
291	2018	Jan	29	412000078/25.01.2018	29 January 2018	Domestic	Not available	BRRB	3371.8	3832	3404	0.3
292	2018	Jan	29	212000109/26.01.2018	29 January 2018	Domestic	Not available	PTRU	3666.0	3947	3546	0.34
293	2018	Jan	30	412000018/26.01.2018	30 January 2018	Domestic	Not available	BRRB	3232.4	3674	3405	0.29
294	2018	Jan	31	412000019/27.01.2018	31 January 2018	Domestic	Not available	VAA	3734.1	2896	2791	0.24
295	2018	Feb	1	412000020/28.01.2018	01 February 2018	Domestic	Not available	VAA	3526.0	2851	2750	0.25
296	2018	Feb	2	412000007/29.01.2018	02 February 2018	Domestic	Not available	VAA	3390.1	3418	3374	0.34
297	2018	Feb	6	412000022/04.02.2018	06 February 2018	Domestic	Not available	KRSL	3702.9	4249	3896	0.49
298	2018	Feb	7	412000082/02.02.2018	07 February 2018	Domestic	Not available	VAA	3947.9	3435	3182	0.33
299	2018	Feb	7	412000083/03.02.2018	07 February 2018	Domestic	Not available	PTRU	3519.8	3513	3087	0.29
300	2018	Feb	8	412000023/05.02.2018	08 February 2018	Domestic	Not available	PTRU	3522.4	3428	3022	0.3
301	2018	Feb	8	412000084/04.02.2018	08 February 2018	Domestic	Not available	VAA	3889.6	3654	3490	0.36
302	2018	Feb	11	412000008/08.02.2018	11 February 2018	Domestic	Not available	PTRU	3584.8	3298	2917	0.35
303	2018	Feb	11	412000025/07.02.2018	11 February 2018	Domestic	Not available	KRSL	3610.7	3773	3452	0.33
304	2018	Feb	12	412000009/09.02.2018	12 February 2018	Domestic	Not available	VAA	3426.6	3849	3671	0.32
305	2018	Feb	13	412000093/09.02.2018	13 February 2018	Domestic	Not available	KRSL	3682.4	3687	3254	0.36
306	2018	Feb	13	412000027/10.02.2018	13 February 2018	Domestic	Not available	GOLA	4127.4	3440	3066	0.32
307	2018	Feb	13	412000028/11.02.2018	13 February 2018	Domestic	Not available	VAA	3711.2	3350	3235	0.35
308	2018	Feb	16	412000095/12.02.2018	16 February 2018	Domestic	Not available	VAA	3704.2	4039	3993	0.33
309	2018	Feb	17	412000088/13.02.2018	17 February 2018	Domestic	Not available	GOLA	3485.5	3702	3330	0.31
310	2018	Feb	18	412000087/14.02.2018	18 February 2018	Domestic	Not available	PTRU	3691.6	2979	2711	0.32
311	2018	Feb	19	212000117/13.02.2018	19 February 2018	Domestic	Not available	GOLA	3846.6	4023	3546	0.37
312	2018	Feb	20	412000089/14.02.2018	20 February 2018	Domestic	Not available	BRRB	3307.4	4112	3610	0.32
313	2018	Feb	20	412000098/16.02.2018	20 February 2018	Domestic	Not available	PTRU	3300.3	3401	3088	0.29
314	2018	Feb	20	412000099/16.02.2018	20 February 2018	Domestic	Not available	GOLA	3665.4	3712	3375	0.33
315	2018	Feb	20	412000100/17.02.2018	20 February 2018	Domestic	Not available	GOLA	3549.7	3711	3306	0.33
316	2018	Feb	21	412000090/17.02.2018	21 February 2018	Domestic	Not available	GOLA	3700.9	3838	3417	0.35
317	2018	Feb	21	412000118/17.02.2018	21 February 2018	Domestic	Not available	PTRU	3618.8	3812	3517	0.34
318	2018	Feb	21	412000110/17.02.2018	21 February 2018	Domestic	Not available	BRRB	3621.3	3861	3447	0.33
319	2018	Feb	23	212000120/20.02.2018	23 February 2018	Domestic	Not available	KRSL	3669.7	3854	3438	0.35
320	2018	Feb	26	412000210/21.02.2018	26 February 2018	Domestic	Not available	BRRB	3589.0	3984	3633	0.32
321	2018	Feb	26	412000257/23.02.2018	26 February 2018	Domestic	Not available	H.T.E	3564.5	3696	3352	0.34
322	2018	Feb	26	412000101/23.02.2018	26 February 2018	Domestic	Not available	MHDA	3907.3	3976	3742	0.29
323	2018	Feb	26	412000258/24.02.2018	26 February 2018	Domestic	Not available	GOLA	3724.1	3737	3294	0.34
324	2018	Feb	26	212000121/24.02.2018	26 February 2018	Domestic	Not available	MHDA	3889.2	4296	4002	0.31
325	2018	Feb	28	212000122/25.02.2018	28 February 2018	Domestic	Not available	BRRB	3490.3	3759	3442	0.34
326	2018	Mar	2	412000262/26.02.2018	02 March 2018	Domestic	Not available	BRRB	3636.7	3750	3482	0.32
327	2018	Mar	4	412000211/01.03.2018	04 March 2018	Domestic	Not available	MHDA	3595.4	3700	3420	0.32
								H.T.E.	3669.0	3266	2987	0.27

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Sl. No.	Year	Month	Date	RR No.	Date of Sampling	Domestic / Imported	Name of Source	Name of Siding	Received Quantity (MT)	GCV (ADB) Kcal/kg	GCV (ARB) Kcal/kg	Sulphur
328	2018	Mar	5	412000026/02.03.2018	05 March 2018	Domestic	Not available	PTRU	3439.2	3705	3340	0.31
329	2018	Mar	5	412000103/03.03.2018	05 March 2018	Domestic	Not available	GOLA	3714.3	3881	3457	0.34
330	2018	Mar	6	412000102/02.03.2018	08 March 2018	Domestic	Not available	GOLA	3882.7	3957	3536	0.36
331	2018	Mar	6	412000087/03.03.2018	06 March 2018	Domestic	Not available	PTRU	3502.8	3648	3268	0.33
332	2018	Mar	7	212000124/04.03.2018	07 March 2018	Domestic	Not available	BRRB	3633.7	4086	3675	0.32
333	2018	Mar	9	212000126/06.03.2018	09 March 2018	Domestic	Not available	BRRB	3386.4	4162	3764	0.34
334	2018	Mar	22	412000109/19.03.2018	22 March 2018	Domestic	Not available	GOLA	3841.5	4030	3624	0.37
335	2018	Mar	23	412000110/20.03.2018	23 March 2018	Domestic	Not available	GOLA	3684.3	4012	3622	0.38
336	2018	Mar	25	412000111/22.03.2018	25 March 2018	Domestic	Not available	GOLA	3540.4	4069	3622	0.36
337	2018	Apr	1	412000113/28.03.2018	01 April 2018	Domestic	Not available	GOLA	3580.5	4480	3962	0.37
338	2018	Apr	5	412000039/31.03.2018	05 April 2018	Domestic	Not available	BHKD	3812.5	3658	3349	0.3
339	2018	Apr	5	412000040/31.03.2018	05 April 2018	Domestic	Not available	BHKD	3765.0	3630	3188	0.32
340	2018	Apr	8	412000117/04.04.2018	08 April 2018	Domestic	Not available	GOLA	3845.8	3821	3393	0.35
341	2018	Apr	10	412000118/07.04.2018	10 April 2018	Domestic	Not available	GOLA	3937.4	3722	3299	0.33
342	2018	Apr	10	412000046/07.04.2018	10 April 2018	Domestic	Not available	DUGDA	3613.1	3761	3543	0.34
343	2018	Apr	11	412000030/07.04.2018	11 April 2018	Domestic	Not available	KRSL	3916.0	3183	2940	0.35
344	2018	Apr	12	412000119/08.04.2018	12 April 2018	Domestic	Not available	GOLA	3826.2	4016	3490	0.29
345	2018	Apr	13	412000213/07.04.2018	13 April 2018	Domestic	Not available	HTE	3893.1	3465	3118	0.36
346	2018	Apr	13	412000031/08.04.2018	13 April 2018	Domestic	Not available	KRSL	3916.4	3213	2943	0.35
347	2018	Apr	14	412000214/10.04.2018	14 April 2018	Domestic	Not available	HTE	3968.1	3546	3165	0.34
348	2018	Apr	14	412000048/10.04.2018	14 April 2018	Domestic	Not available	DUGDA	3560.7	3885	3543	0.39
349	2018	Apr	15	412000044/12.04.2018	15 April 2018	Domestic	Not available	BHKD	3689.6	3895	3504	0.38
350	2018	Apr	15	412000042/10.04.2018	15 April 2018	Domestic	Not available	BHKD	3431.3	3661	3485	0.32
351	2018	Apr	15	412000121/12.04.2018	15 April 2018	Domestic	Not available	GOLA	3707.0	3778	3271	0.3
352	2018	Apr	16	412000041/12.04.2018	16 April 2018	Domestic	Not available	BAGHA	3579.2	3702	3596	0.29
353	2018	Apr	16	412000045/12.04.2018	16 April 2018	Domestic	Not available	BHKD	3605.7	4264	3805	0.34
354	2018	Apr	16	412000122/13.04.2018	16 April 2018	Domestic	Not available	GOLA	3643.6	3707	3205	0.38
355	2018	Apr	16	412000120/10.04.2018	16 April 2018	Domestic	Not available	GOLA	3604.4	4257	3737	0.29
356	2018	Apr	17	412000043/10.04.2018	17 April 2018	Domestic	Not available	BHKD	3811.8	4011	3670	0.3
357	2018	Apr	18	412000124/13.04.2018	18 April 2018	Domestic	Not available	PTRU	3627.5	3934	3498	0.34
358	2018	Apr	18	412000125/14.04.2018	18 April 2018	Domestic	Not available	PTRU	3851.6	4106	3649	0.33
359	2018	Apr	18	412000039/13.04.2018	18 April 2018	Domestic	Not available	BRMO	3713.7	4393	3844	0.3
360	2018	Apr	18	412000123/14.04.2018	18 April 2018	Domestic	Not available	GOLA	3890.9	3918	3444	0.28
361	2018	Apr	19	412000126/15.04.2018	19 April 2018	Domestic	Not available	PTRU	3400.0	3704	3400	0.31
362	2018	Apr	19	412000217/14.04.2018	19 April 2018	Domestic	Not available	HTE	3770.8	3903	3474	0.37
363	2018	Apr	19	412000124/15.04.2018	19 April 2018	Domestic	Not available	GOLA	3606.1	4866	4425	0.35
364	2018	Apr	19	412000127/15.04.2018	19 April 2018	Domestic	Not available	PTRU	3707.1	4006	3524	0.32
365	2018	Apr	20	412000035/18.04.2018	20 April 2018	Domestic	Not available	KKAS	3655.8	4865	4443	0.34
366	2018	Apr	20	412000125/16.04.2018	20 April 2018	Domestic	Not available	GOLA	3866.5	4847	4338	0.31
367	2018	Apr	21	412000128/16.04.2018	21 April 2018	Domestic	Not available	PTRU	3801.9	4855	4483	0.29
368	2018	Apr	21	412000216/13.04.2018	21 April 2018	Domestic	Not available	HTE	3665.1	3514	3200	0.34
369	2018	Apr	21	412000127/17.04.2018	21 April 2018	Domestic	Not available	GOLA	3804.9	4850	4380	0.31
370	2018	Apr	22	412000129/18.04.2018	22 April 2018	Domestic	Not available	GOLA	3983.6	3808	3364	0.38
371	2018	Apr	22	412000036/19.04.2018	22 April 2018	Domestic	Not available	KKAS	3349.6	5169	4688	0.49
372	2018	Apr	24	412000131/20.04.2018	24 April 2018	Domestic	Not available	GOLA	3989.2	3997	3729	0.38
373	2018	Apr	25	412000051/21.04.2018	25 April 2018	Domestic	Not available	DUGDA	3761.3	4142	3874	0.41
374	2018	Apr	25	412000037/22.04.2018	25 April 2018	Domestic	Not available	KKAS	3481.5	5619	4927	0.47
375	2018	Apr	26	412000046/22.04.2018	26 April 2018	Domestic	Not available	BHKD	3809.9	4413	3968	0.43
376	2018	Apr	27	412000133/22.04.2018	27 April 2018	Domestic	Not available	GOLA	3452.5	4977	4492	0.51
377	2018	Apr	27	412000047/28.04.2018	27 April 2018	Domestic	Not available	BHKD	3569.9	5806	5158	0.48
378	2018	Apr	28	412000218/28.04.2018	28 April 2018	Domestic	Not available	HTE	3695.5	5300	4978	0.46
379	2018	Apr	28	412000038/25.04.2018	28 April 2018	Domestic	Not available	KKAS	3825.1	4877	4407	0.44
380	2018	Apr	29	412000134/25.04.2018	29 April 2018	Domestic	Not available	GOLA	3676.8	4606	4142	0.41
381	2018	Apr	29	412000039/27.04.2018	29 April 2018	Domestic	Not available	KKAS	3752.0	5369	5031	0.43
382	2018	Apr	30	412000136/26.04.2018	30 April 2018	Domestic	Not available	GOLA	3852.4	4185	3811	0.42
383	2018	May	1	412000130/27.04.2018	01 May 2018	Domestic	Not available	PTRU	3935.4	4384	3774	0.39
384	2018	May	2	412000036/27.04.2018	02 May 2018	Domestic	Not available	BRMO	3712.8	4274	4194	0.42
385	2018	May	3	412000037/01.05.2018	03 May 2018	Domestic	Not available	BRMO	3528.4	4243	4087	0.41
386	2018	May	4	412000048/01.05.2018	04 May 2018	Domestic	Not available	BHKD	3825.0	3834	3475	0.43
387	2018	May	5	412000225/08.05.2018	05 May 2018	Domestic	Not available	HTE	3842.8	3786	3504	0.31
388	2018	May	12	412000049/08.05.2018	12 May 2018	Domestic	Not available	OSBK	3927.5	4439	3945	0.39
389	2018	May	13	412000141/08.05.2018	13 May 2018	Domestic	Not available	GOLA	3588.7	3879	3446	0.34
390	2018	May	14	412000228/11.05.2018	14 May 2018	Domestic	Not available	HTE	3775.9	3956	3630	0.37
391	2018	May	15	412000143/09.05.2018	15 May 2018	Domestic	Not available	GOLA	3894.5	3855	3361	0.35
392	2018	May	15	412000144/11.05.2018	15 May 2018	Domestic	Not available	GOLA	3765.7	3616	3143	0.32
393	2018	May	16	412000147/12.05.2018	16 May 2018	Domestic	Not available	GOLA	3876.6	3758	3292	0.33
394	2018	May	16	412000145/11.05.2018	16 May 2018	Domestic	Not available	GOLA	3958.6	3796	3328	0.37
395	2018	May	17	412000037/12.05.2018	17 May 2018	Domestic	Not available	LTBK	3890.8	4034	3568	0.38
396	2018	May	17	412000050/13.05.2018	17 May 2018	Domestic	Not available	OSBK	3911.1	4172	3718	0.4
397	2018	May	18	412000228/14.05.2018	18 May 2018	Domestic	Not available	HTE	3777.3	3781	3540	0.36
398	2018	May	18	412000148/15.05.2018	18 May 2018	Domestic	Not available	GOLA	3728.8	4394	3820	0.41
399	2018	May	18	412000038/14.05.2018	18 May 2018	Domestic	Not available	LTBK	3920.6	4258	3843	0.4
400	2018	May	19	412000051/16.05.2018	19 May 2018	Domestic	Not available	OSBK	3904.5	4175	3786	0.38
401	2018	May	19	412000229/15.05.2018	19 May 2018	Domestic	Not available	HTE	3851.1	4140	3803	0.39
402	2018	May	20	412000151/16.05.2018	20 May 2018	Domestic	Not available	GOLA	3961.1	3221	2812	0.34
403	2018	May	20	412000152/17.05.2018	20 May 2018	Domestic	Not available	GOLA	3771.5	3436	3050	0.32
404	2018	May	21	412000052/17.05.2018	21 May 2018	Domestic	Not available	OSBK	3708.9	3994	3619	0.37
405	2018	May	22	412000053/19.05.2018	22 May 2018	Domestic	Not available	OSBK	3759.6	4202	3857	0.4
406	2018	May	22	412000154/18.05.2018	22 May 2018	Domestic	Not available	GOLA	3932.7	3989	3644	0.37
407	2018	May	22	412000155/19.05.2018	22 May 2018	Domestic	Not available	GOLA	3863.6	4312	3759	0.42

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Rate No	Year	Month	Date	RR No.	Date of Sampling	Domestic / Imported	Name of Source	Name of Siding	Received Quantity (MT)	GCV (ADB) Kcal/kg	GCV (ARB) Kcal/kg	Sulphur
408	2018	May	23	41200041/19.05.2018	23 May 2018	Domestic	Not available	LTBK	3778.6	4035	3704	0.37
409	2018	May	23	41200062/19.05.2018	23 May 2018	Domestic	Not available	DGSC	3991.1	3998	3835	0.39
410	2018	May	24	41200023/19.05.2018	24 May 2018	Domestic	Not available	HTE	3711.9	4191	3892	0.39
411	2018	May	24	41200005/20.05.2018	24 May 2018	Domestic	Not available	OSBK	3532.1	4150	3940	0.37
412	2018	May	25	41200042/21.05.2018	25 May 2018	Domestic	Not available	LTBK	3504.2	4047	3520	0.35
413	2018	May	25	412000158/21.05.2018	25 May 2018	Domestic	Not available	GOLA	3898.6	4145	3761	0.38
414	2018	May	28	412000141/24.05.2018	28 May 2018	Domestic	Not available	PTRU	3929.9	3528	3264	0.31
415	2018	May	29	412000142/25.05.2018	29 May 2018	Domestic	Not available	PTRU	3684.2	3582	3401	0.32
416	2018	May	29	412000143/25.05.2018	29 May 2018	Domestic	Not available	PTRU	3829.9	3425	3138	0.29
417	2018	May	30	412000144/26.05.2018	30 May 2018	Domestic	Not available	PTRU	3860.6	3736	3468	0.36
418	2018	May	30	412000162/26.05.2018	30 May 2018	Domestic	Not available	GOLA	3836.5	3473	3134	0.33
419	2018	May	31	412000145/27.05.2018	31 May 2018	Domestic	Not available	PTRU	3785.8	3880	3594	0.35
420	2018	May	31	112000001/28.05.2018	31 May 2018	Domestic	Not available	BCBM	3701.7	4397	4029	0.38
421	2018	May	31	412000235/26.05.2018	31 May 2018	Domestic	Not available	HTE	3638.6	4189	3987	0.39
422	2018	Jun	2	112000002/30.05.2018	02 June 2018	Domestic	Not available	BCBM	3798.6	4129	3787	0.32
423	2018	Jun	3	412000165/30.05.2018	03 June 2018	Domestic	Not available	GOLA	3747.0	3889	3563	0.36
424	2018	Jun	3	412000049/29.05.2018	03 June 2018	Domestic	Not available	KRSL	3647.2	4489	4393	0.43
425	2018	Jun	3	412000043/31.05.2018	03 June 2018	Domestic	Not available	LTBK	3849.8	4452	4146	0.37
426	2018	Jun	3	412000166/01.06.2018	03 June 2018	Domestic	Not available	GOLA	3622.4	4262	4056	0.37
427	2018	Jun	5	412000044/01.06.2018	05 June 2018	Domestic	Not available	BRMO	3674.6	3895	3833	0.35
428	2018	Jun	5	412000045/02.06.2018	05 June 2018	Domestic	Not available	BRMO	3608.3	3386	3300	0.32
429	2018	Jun	6	412000055/02.06.2018	06 June 2018	Domestic	Not available	OSBK	3656.4	4230	3759	0.34
430	2018	Jun	6	112000003/03.06.2018	06 June 2018	Domestic	Not available	BCBM	3295.8	4406	4060	0.36
431	2018	Jun	8	412000050/05.06.2018	08 June 2018	Domestic	Not available	VAA	3734.0	3905	3489	0.34
432	2018	Jun	9	412000168/04.06.2018	09 June 2018	Domestic	Not available	GOLA	3587.6	4305	3901	0.34
433	2018	Jun	16	412000055/16.06.2018	16 June 2018	Domestic	Not available	KRSL	3804.3	3214	3062	0.28
434	2018	Jun	22	412000047/18.06.2018	22 June 2018	Domestic	Not available	BRMO	3822.6	3802	3635	0.36
435	2018	Jun	23	412000588/20.06.2018	23 June 2018	Imported	Not available	KDLP	3840.1	5296	5105	0.81
436	2018	Jun	23	112000004/19.06.2018	23 June 2018	Domestic	Not available	BCBM	3682.1	3809	3443	0.38
437	2018	Jun	24	412000589/22.06.2018	24 June 2018	Imported	Not available	KDLP	3849.1	5182	4982	0.79
438	2018	Jun	27	412000026/23.06.2018	27 June 2018	Domestic	Not available	KSNT	3539.4	3507	3396	0.29
439	2018	Jun	27	412000050/24.06.2018	27 June 2018	Domestic	Not available	BRMO	3646.0	4184	3808	0.38
440	2018	Jun	28	412000057/25.06.2018	28 June 2018	Domestic	Not available	KRSL	3750.4	3324	3155	0.34
441	2018	Jul	3	112000005/30.06.2018	03 July 2018	Domestic	Not available	BCBM	3428.3	3372	2969	0.27
442	2018	Jul	3	412000052/30.06.2018	03 July 2018	Domestic	Ashok	LTBK	3668.7	3505	3163	0.32
443	2018	Jul	5	112000008/01.07.2018	05 July 2018	Domestic		BCBM	3233.3	3700	3410	0.36
444	2018	Jul	6	412000028/06.07.2018	06 July 2018	Domestic	Amrapalli	KSNT	3786.2	3708	3544	0.37
445	2018	Jul	7	112000007/05.07.2018	07 July 2018	Domestic	Magadh	HTE	3894.9	3618	3365	0.44
446	2018	Jul	8	412000255/03.07.2018	08 July 2018	Domestic	Ashok	BCBM	3786.2	3421	3174	0.29
447	2018	Jul	9	412000065/09.07.2018	09 July 2018	Domestic	Amrapalli	OSBK	3558.5	3724	3452	0.31
448	2018	Jul	9	412000057/10.07.2018	09 July 2018	Domestic	BRMO	3642.2	3316	3248	0.26	
449	2018	Jul	9	412000181/10.07.2018	09 July 2018	Domestic	Amrapalli	GOLA	3819.0	3899	3649	0.32
450	2018	Jul	9	412000066/04.07.2018	09 July 2018	Domestic	Amrapalli	KRSL	3917.6	3465	3251	0.36
451	2018	Jul	10	412000340/07.07.2018	10 July 2018	Imported		KPRK	3876.6	5188	4437	0.76
452	2018	Jul	11	412000029/08.07.2018	11 July 2018	Domestic	Ashok	KSNT	3611.8	3670	3198	0.35
453	2018	Jul	12	412000058/07.07.2018	12 July 2018	Domestic	Konar	BRMO	3595.2	2710	2244	0.25
454	2018	Jul	12	412000057/08.07.2018	12 July 2018	Domestic		HTE	3710.9	3627	3030	0.36
455	2018	Jul	14	412000183/11.07.2018	14 July 2018	Domestic	Amrapalli	GOLA	3669.1	3438	3060	0.29
456	2018	Jul	15	112000008/12.07.2018	15 July 2018	Domestic	Magadh	BCBM	3684.4	3791	3499	0.31
457	2018	Jul	17	112000009/14.07.2018	17 July 2018	Domestic	Magadh	BCBM	3491.2	3714	3466	0.33
458	2018	Jul	19	412000070/14.07.2018	19 July 2018	Domestic	Bina - e auction	KRSL	3092.9	2665	2438	0.26
459	2018	Jul	20	412000031/17.07.2018	20 July 2018	Domestic	Ashok	KSNT	3668.0	4002	3720	0.38
460	2018	Jul	20	412000072/16.07.2018	20 July 2018	Domestic	Bina - e auction	KRSL	3131.6	2409	2202	0.28
461	2018	Jul	20	412000070/16.07.2018	20 July 2018	Domestic	Amrapalli	OSBK	3610.1	3732	3528	0.3
462	2018	Jul	20	412000601/18.07.2018	20 July 2018	Imported		KDLP	3785.6	5146	4610	0.78
463	2018	Jul	21	112000010/18.07.2018	21 July 2018	Domestic	Magadh	BCBM	3760.4	3780	3490	0.35
464	2018	Jul	21	412000077/15.07.2018	21 July 2018	Domestic	Bina - e auction	KRSL	3353.0	2803	2560	0.26
465	2018	Jul	21	112000011/19.07.2018	21 July 2018	Domestic	Magadh	BCBM	3919.8	3606	3228	0.29
466	2018	Jul	22	412000169/18.07.2018	22 July 2018	Domestic	Amrapalli	PTRU	3796.1	3509	3051	0.34
467	2018	Jul	22	412004496/19.07.2018	22 July 2018	Imported		KDLP	3911.4	4978	4555	0.66
468	2018	Jul	22	412000058/19.07.2018	22 July 2018	Domestic	Ashok	BHKD	3911.4	3713	3189	0.37
469	2018	Jul	23	412000603/20.07.2018	23 July 2018	Imported		KDLP	3713.7	5268	4938	0.75
470	2018	Jul	23	412004497/20.07.2018	23 July 2018	Imported		KDLP	3854.1	5110	4686	0.73
471	2018	Jul	24	112000012/20.07.2018	24 July 2018	Domestic	Magadh	BCBM	3420.6	3719	3328	0.41
472	2018	Jul	24	112000013/21.07.2018	24 July 2018	Domestic	Magadh	BCBM	3511.7	3389	2844	0.31
473	2018	Jul	24	412000065/20.07.2018	24 July 2018	Domestic	Ashok	BARKAKANA	3757.2	3803	3447	0.38
474	2018	Jul	25	412000033/21.07.2018	25 July 2018	Domestic	Amrapalli	KSNT	3726.9	3858	3494	0.37
475	2018	Jul	29	412000174/25.07.2018	29 July 2018	Domestic	Amrapalli	PTRU	3786.8	3152	2840	0.28
476	2018	Jul	30	112000014/24.07.2018	30 July 2018	Domestic	Magadh	BCBM	3534.0	3475	3104	0.35
477	2018	Jul	31	412000082/27.07.2018	31 July 2018	Domestic	Bina - e auction	KRSL	3619.0	2273	2081	0.24
478	2018	Jul	31	412000366/29.07.2018	31 July 2018	Imported		KPRK	3864.8	5370	5067	0.74
479	2018	Aug	1	412000059/28.07.2018	01 August 2018	Domestic	Amrapalli	BHKD	3939.6	3100	2633	0.36
480	2018	Aug	3	412000085/29.07.2018	03 August 2018	Domestic	Bina - e auction	KRSL	3637.6	2538	2224	0.27
481	2018	Aug	3	412000034/30.07.2018	03 August 2018	Domestic		KSNT	3655.3	3533	3116	0.52
482	2018	Aug	4	412000190/30.07.2018	04 August 2018	Domestic	Amrapalli	GOLA	3900.9	3090	2675	0.42
483	2018	Aug	5	412000267/01.08.2018	05 August 2018	Domestic	Ashoka	HTE	3813.3	3502	3020	0.43
484	2018	Aug	6	412000036/03.08.2018	06 August 2018	Domestic	Amrapalli	KSNT	3440.8	3445	3059	0.47
485	2018	Aug	13	412000181/09.08.2018	13 August 2018	Domestic	Amrapalli	PTRU	3921.3	3038	2689	0.31
486	2018	Aug	13	112000015/10.08.2018	13 August 2018	Domestic	Magadh	BCBM	3559.7	3294	2988	0.34
487	2018	Aug	13	412000609/10.08.2018	13 August 2018	Imported		KDLP	3765.2	5227	4823	0.71

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Rake No	Year	Month	Date	RR No.	Date of Sampling	Domestic / Imported	Name of source	Name of Siding	Received Quantity (MT)	GCV (ADB) Kcal/kg	GCV (ARF) Kcal/kg	Sulphur
488	2018	Aug	14	412000037/10.08.2018	14 August 2018	Domestic	Piparwar	KSNT	3637.4	3330	3150	0.39
489	2018	Aug	14	412000016/12.08.2018	14 August 2018	Domestic	Magadh	BCBM	3783.0	3377	3025	0.35
490	2018	Aug	15	412000271/10.08.2018	15 August 2018	Domestic	Piparwar	HTE	3781.2	2764	2262	0.32
491	2018	Aug	16	412000037/13.08.2018	16 August 2018	Domestic	Piparwar	KSNT	3320.1	2770	2453	0.29
492	2018	Aug	17	412000040/14.08.2018	17 August 2018	Domestic	Piparwar	KSNT	3105.1	2901	2545	0.51
493	2018	Aug	18	412000062/15.08.2018	18 August 2018	Domestic	Amarpalli	BHKD	3657.6	2998	2604	0.35
494	2018	Aug	19	412000389/15.08.2018	19 August 2018	Imported		KPRK	3807.8	5094	4616	0.92
495	2018	Aug	21	412000063/21.08.2018	21 August 2018	Domestic	Dhoori	BRMO	3723.4	2766	2456	0.34
496	2018	Aug	21	412000042/21.08.2018	21 August 2018	Domestic	Piparwar	KSNT	3528.7	3366	3209	0.39
497	2018	Aug	21	412000613/21.08.2018	21 August 2018	Imported		KDLP	3791.8	5119	4858	0.88
498	2018	Aug	22	412000079/22.08.2018	22 August 2018	Domestic	Amrapalli	OSBK	3623.7	3450	3065	0.41
499	2018	Aug	22	412000043/22.08.2018	22 August 2018	Domestic	Piparwar	KSNT	3645.8	3549	2931	0.51
500	2018	Aug	24	412000080/20.08.2018	24 August 2018	Domestic	Amrapalli	OSBK	3843.3	3525	3226	0.47
501	2018	Aug	26	412000616/21.08.2018	26 August 2018	Imported		KDLP	3776.6	5011	4719	0.41
502	2018	Aug	27	412000044/23.08.2018	27 August 2018	Domestic	Piparwar	KSNT	3984.8	3278	2921	0.38
503	2018	Aug	28	412000017/21.08.2018	28 August 2018	Domestic	Magadh	BCBM	3577.4	3232	2814	0.52
504	2018	Aug	30	412000018/28.08.2018	30 August 2018	Domestic	Magadh	BCBM	3794.9	3565	3116	0.49
505	2018	Sep	1	412000019/28.08.2018	01 September 2018	Domestic	Magadh	BCBM	3486.4	3452	3022	0.32
506	2018	Sep	1	412000411/29.08.2018	01 September 2018	Imported		KDLP	3718.5	5211	4798	0.52
507	2018	Sep	1	412000412/30.08.2018	01 September 2018	Imported		KPRK	3739.6	5272	4951	0.54
508	2018	Sep	3	412000014/29.08.2018	03 September 2018	Domestic	Tetariakhar	BIRT	3588.6	3617	3182	0.3
509	2018	Sep	3	412000194/29.08.2018	03 September 2018	Domestic	Amrapalli	PTRU	3888.5	3501	3068	0.3
510	2018	Sep	3	412000047/30.08.2018	03 September 2018	Domestic	Purandhi	KSNT	3758.0	3532	3093	0.54
511	2018	Sep	4	412000015/31.08.2018	04 September 2018	Domestic	Tetariakhar	BIRT	3334.6	3557	3087	0.53
512	2018	Sep	4	412000066/30.08.2018	04 September 2018	Domestic	Amrapalli	BHKD	3689.3	3736	3075	0.51
513	2018	Sep	6	412000020/02.09.2018	06 September 2018	Domestic	Magadh	BCBM	3571.7	3655	3122	0.6
514	2018	Sep	7	412000199/01.09.2018	07 September 2018	Domestic	Amrapalli	GOLA	3715.3	2790	2300	0.39
515	2018	Sep	8	412000021/06.09.2018	08 September 2018	Domestic	Tetariakhar	BCBM	3906.0	3495	3018	0.46
516	2018	Sep	10	412000048/06.09.2018	10 September 2018	Domestic	Purnadhi	KSNT	3796.2	3452	3060	0.48
517	2018	Sep	15	412000049/12.09.2018	15 September 2018	Domestic	Piparwar	KSNT	3710.2	3446	3104	0.58
518	2018	Sep	17	412000022/15.09.2018	17 September 2018	Domestic	Magadh	BCBM	3722.2	3407	3003	0.49
519	2018	Sep	18	412000050/14.09.2018	18 September 2018	Domestic	Piparwar	KSNT	3701.4	3473	3107	0.51
520	2018	Sep	19	412000071/16.09.2018	19 September 2018	Domestic	Amarpalli	BHKD	3913.2	3585	3189	0.45
521	2018	Sep	20	412000633/17.09.2018	20 September 2018	Imported		KDLP	3830.8	5145	4856	0.85
522	2018	Sep	20	412000072/17.09.2018	20 September 2018	Domestic	Amrapalli	BHKD	3893.1	3685	3381	0.48
523	2018	Sep	21	412000634/18.09.2018	21 September 2018	Imported		KDLP	3715.9	5078	4741	0.64
524	2018	Sep	21	412000023/15.09.2018	21 September 2018	Domestic	Amrapalli	BCBM	3540.1	3587	3387	0.55
525	2018	Sep	21	412000024/19.09.2018	21 September 2018	Domestic	Magadh	BCBM	3662.2	3436	3187	0.57
526	2018	Sep	23	412000052/19.09.2018	23 September 2018	Domestic	Purnadhi	KSNT	3559.7	3557	3065	0.43
527	2018	Sep	23	412000020/20.09.2018	23 September 2018	Domestic	Tetariakhar	PTRU	3826.3	3302	2726	0.49
528	2018	Sep	23	412000053/21.09.2018	23 September 2018	Domestic	Purnadhi	KSNT	3910.8	3359	2853	0.51
529	2018	Sep	24	412000636/21.09.2018	24 September 2018	Imported		KDLP	4733.3	4959	4573	0.88
530	2018	Sep	25	412000025/22.09.2018	25 September 2018	Domestic	Magadh	BCBM	3779.8	3458	3008	0.42
531	2018	Sep	25	412000058/21.09.2018	25 September 2018	Domestic	Tetariakhar	KUJU	3760.9	4107	3573	0.58
532	2018	Sep	25	412000073/22.09.2018	25 September 2018	Domestic	Tetariakhar	BHKD	3914.0	3551	2910	0.56
533	2018	Sep	25	412000126/22.09.2018	25 September 2018	Domestic	E.A.-S.Banjora	DGSC	3505.3	3787	3521	0.6
534	2018	Sep	26	412000637/23.09.2018	26 September 2018	Imported		KDLP	3703.3	5015	4886	0.75
535	2018	Sep	27	412000054/23.09.2018	27 September 2018	Domestic	Purnadhi	KSNT	3893.6	3357	3089	0.62
536	2018	Sep	27	412000020/24.09.2018	27 September 2018	Domestic	Tetariakhar	BIRT	3882.8	3452	3132	0.64
537	2018	Sep	27	412000074/24.09.2018	27 September 2018	Domestic	E.A.-Dahibari	BERMO	3719.8	3302	3041	0.56
538	2018	Oct	2	412000208/29.09.2018	02 October 2018	Domestic	Tetariakhar	PTRU	3914.6	3082	2832	0.35
539	2018	Oct	3	412000201/30.09.2018	03 October 2018	Domestic	Amrapalli	GOLA	3689.4	3437	3020	0.36
540	2018	Oct	4	412000026/30.09.2018	04 October 2018	Domestic	Magadh	BCBM	3826.6	3435	3130	0.37
541	2018	Oct	4	412000209/30.09.2018	04 October 2018	Domestic	Tetariakhar	PTRU	3834.4	3066	2851	0.54
542	2018	Oct	4	412000202/01.10.2018	04 October 2018	Domestic	Amrapalli+Tetariakhar	GOLA	3877.4	3429	3040	0.43
543	2018	Oct	6	412000077/02.10.2018	06 October 2018	Domestic	E.C.-S.Banjora	BERMO	3291.3	3288	3056	0.32
544	2018	Oct	6	412000027/03.10.2018	06 October 2018	Domestic	Magadh	BERMO	3884.0	3251	2951	0.64
545	2018	Oct	7	412000077/30.09.2018	07 October 2018	Domestic	Tetariakhar	BHKD	3651.2	3533	3174	0.56
546	2018	Oct	8	412000028/05.10.2018	08 October 2018	Domestic	Magadh	BCBM	3243.4	3392	3071	0.55
547	2018	Oct	9	412000079/05.10.2018	09 October 2018	Domestic	Tetariakhar	BHKD	3682.2	3571	3189	0.5
548	2018	Oct	9	412000214/05.10.2018	09 October 2018	Domestic	Tetariakhar	PTRU	3895.1	3551	3264	0.48
549	2018	Oct	11	412000023/05.10.2018	11 October 2018	Domestic	Tetariakhar	BIRT	3635.2	3766	3436	0.51
550	2018	Oct	12	412000077/07.10.2018, 412000077	12 October 2018	Domestic	Tetariakhar	PTRU	4006.9	3595	3162	0.58
551	2018	Oct	12	412000081/09.10.2018	12 October 2018	Domestic	Tetariakhar	BHKD	3757.7	3615	3287	0.6
552	2018	Oct	14	412000218/10.10.2018	14 October 2018	Domestic	Tetariakhar	PTRU	3905.6	3512	3190	0.55
553	2018	Oct	14	412000142/10.10.2018	14 October 2018	Domestic	EA-AKWM	DGSC	3766.3	3858	3752	0.48
554	2018	Oct	14	412000204/11.10.2018	14 October 2018	Domestic	Tetariakhar	GOLA	3872.7	3031	2730	0.61
555	2018	Oct	16	412000219/11.10.2018	16 October 2018	Domestic	Tetariakhar	PTRU	3772.1	3324	2849	0.57
556	2018	Oct	18	412000078/14.10.2018	18 October 2018	Domestic		HTE	3883.4	3424	2952	0.64
557	2018	Oct	18	412000083/15.10.2018	18 October 2018	Domestic	Tetariakhar	BHKD	3377.9	3339	2981	0.59
558	2018	Oct	23	412000223/12.10.2018	23 October 2018	Domestic	Magadh	PTRU	3803.9	3599	3299	0.53
559	2018	Oct	25	412000085/19.10.2018	25 October 2018	Domestic	Tetariakhar	OSBK	3871.4	3588	3256	0.55
560	2018	Oct	27	412000087/22.10.2018	27 October 2018	Domestic	Piparwar	BHKD	3923.7	3328	3100	0.58
561	2018	Oct	29	412000029/26.10.2018	29 October 2018	Domestic	Magadh	BCBM	3765.2	3319	2973	0.52
562	2018	Oct	30	412000206/24.10.2018	30 October 2018	Domestic	Govindapur	GOLA	3902.2	2924	2785	0.59
563	2018	Oct	30	412000429/26.10.2018	30 October 2018	Imported		KPRK	3771.9	5085	4885	0.85
564	2018	Oct	30	412000430/27.10.2018	30 October 2018	Imported		KPRK	3836.7	5117	4692	0.76
565	2018	Oct	30	412000281/26.10.2018	30 October 2018	Domestic	Amrapalli	HTE	3752.6	3320	2911	0.47
566	2018	Oct	31	412000034/27.10.2018, 412000034	31 October 2018	Domestic	Magadh	BCBM	3370.6	3420	3105	0.6

Annexure 7 (2 of 2) Feasibility Report FGD

Rake No	Year	Month	Date	RR No.	Date of Sampling	Domestic / Imported	Name of Source	Name of Siding	Received Quantity (MT)	GCV (ADB) Kcal/kg	GCV (ARB) Kcal/kg	Sulphur
567	2018	Nov	1	412000153/28.10.2018	01 November 2018	Domestic	Dahibar-EC	DGSC	3634.1	3782	3606	0.3
568	2018	Nov	1	412000224/25.10.2018	01 November 2018	Domestic	Amrapalli	PTRU	3843.9	3696	3417	0.57
569	2018	Nov	1	112000031/29.10.2018	01 November 2018	Domestic	Magadh	BCBM	3297.6	3665	3403	0.44
570	2018	Nov	1	412000027/29.10.2018	01 November 2018	Domestic	Tetariakhar	BCBM	3797.8	3566	3302	0.43
571	2018	Nov	3	412000062/30.10.2018	03 November 2018	Domestic		KUJU	3889.8	3458	3232	0.41
572	2018	Nov	8	212000001/05.11.2018	08 November 2018	Domestic	Amrapalli	BALU	3716.8	3749	3445	0.49
573	2018	Nov	8	412000207/05.11.2018	08 November 2018	Domestic	Piparwar+Magadh	GOLA	3793.8	3435	3077	0.52
574	2018	Nov	9	412000231/05.11.2018	09 November 2018	Domestic	Piparwar	PTRU	3885.2	3695	3385	0.51
575	2018	Nov	9	412000208/05.11.2018	09 November 2018	Domestic	Karo	GOLA	3438.2	3860	3485	0.42
576	2018	Nov	10	412000287/07.11.2018	10 November 2018	Domestic	Amrapalli	BIRT	3518.4	3516	3053	0.45
577	2018	Nov	11	412000235/07.11.2018	11 November 2018	Domestic	Piparwar	PTRU	3893.3	3701	3199	0.5
578	2018	Nov	12	412000163/08.11.2018	12 November 2018	Domestic	EC-AKWM	DUGDA	3871.2	3368	3241	0.27
579	2018	Nov	14	412000439/12.11.2018	14 November 2018	Imported	Swiss-IC	KPRK	3651.9	5304	4817	0.89
580	2018	Nov	14	412000238/11.11.2018	14 November 2018	Domestic	Magadh	PTRU	3907.5	3718	3426	0.46
581	2018	Nov	14	412000090/10.11.2018	14 November 2018	Domestic	Parej East	BHKD	3921.2	3784	3396	0.45
582	2018	Nov	15	412000091/11.11.2018	15 November 2018	Domestic	Piparwar	BHKD	3747.6	3914	3467	0.44
583	2018	Nov	15	412000164/09.11.2018	15 November 2018	Domestic	Sel.Dhori+Karo	DUGDA	3465.2	4060	3936	0.48
584	2018	Nov	16	412000441/13.11.2018	16 November 2018	Imported	Swiss-IC	KPRK	3739.5	5316	4919	0.51
585	2018	Nov	16	412000090/13.11.2018	16 November 2018	Domestic	Parej East	OSBK	3914.1	3663	3447	0.46
586	2018	Nov	17	412000239/14.11.2018	17 November 2018	Domestic	Magadh	PTRU	3680.5	3886	3361	0.44
587	2018	Nov	18	412000209/16.11.2018	18 November 2018	Domestic	Magadh	GOLA	3473.5	3833	3398	0.48
588	2018	Nov	21	412000168/16.11.2018	21 November 2018	Domestic	EC-S.BANJORA	DUGDA	3527.8	3833	3692	0.52
589	2018	Nov	22	412000210/17.11.2018	22 November 2018	Domestic	Magadh	GOLA	3630.3	3857	3404	0.65
590	2018	Nov	22	412000091/15.11.2018	22 November 2018	Domestic	Karo	BERMO	3733.8	3640	3435	0.41
591	2018	Nov	23	412000093/19.11.2018	23 November 2018	Domestic	Amrapalli	BHKD	3761.0	3628	3218	0.48
592	2018	Nov	23	112000001/21.11.2018	23 November 2018	Domestic	Magadh	PHULBASIA	3941.8	3408	3122	0.55
593	2018	Nov	25	412000241/21.11.2018	25 November 2018	Domestic	Magadh + Tetariakhar	PTRU	3912.6	3314	3030	0.57
594	2018	Nov	26	412000055/24.11.2018	26 November 2018	Domestic	Piparwar	KHALARI	3968.3	3114	2778	0.64
595	2018	Nov	27	412000211/23.11.2018	27 November 2018	Domestic	Ashok	GOLA	3499.3	3763	3310	0.72
596	2018	Nov	27	412000242/21.11.2018	27 November 2018	Domestic	Amrapalli	PTRU	3843.6	2973	2694	0.59
597	2018	Nov	28	412000094/24.11.2018	28 November 2018	Domestic	Amrapalli	BHKD	3922.5	3635	3390	0.47
598	2018	Nov	28	412000212/24.11.2018	28 November 2018	Domestic	Tetariakhar	GOLA	3742.2	3818	3320	0.56
599	2018	Nov	29	412000090/25.11.2018	29 November 2018	Domestic	Piparwar	BARKAKANA	3916.7	4147	3777	0.64
600	2018	Nov	29	112000001/26.11.2018	29 November 2018	Domestic	Magadh (L)	PHULBASIA	3738.6	3071	2819	0.85
601	2018	Dec	1	412000245/28.11.2018	01 December 2018	Domestic	Giddi+Ashoka	PTRU	3840.7	3588	3284	0.44
602	2018	Dec	1	412000246/28.11.2018	01 December 2018	Domestic	Giddi+Ashoka	PTRU	3746.2	3106	2852	0.43
603	2018	Dec	2	412000091/28.11.2018	02 December 2018	Domestic	Piparwar	BARKAKANA	3919.0	3218	3059	0.43
604	2018	Dec	3	412000171/28.11.2018	03 December 2018	Domestic	AKWM-EA-BCCL	DUGDA	3653.7	3761	3598	0.38
605	2018	Dec	3	412000095/29.11.2018	03 December 2018	Domestic	Ashoka	BHKD	3823.2	3582	3083	0.44
606	2018	Dec	3	412000282/29.11.2018	03 December 2018	Domestic	Tetariakhar	HTE	3797.0	3441	3116	0.64
607	2018	Dec	3	412000093/29.11.2018	03 December 2018	Domestic	Magadh	BARKAKANA	3820.1	3553	3341	0.46
608	2018	Dec	4	112000002/28.11.2018	04 December 2018	Domestic	Magadh	PHULBASIA	2838.1	3538	3285	0.67
609	2018	Dec	5	412000095/01.12.2018	05 December 2018	Domestic	Magadh	BARKAKANA	3832.4	3615	3457	0.4
610	2018	Dec	5	412000283/30.11.2018	05 December 2018	Domestic	Tetariakhar	HTE	3754.6	3485	3201	0.53
611	2018	Dec	5	412000056/02.12.2018	05 December 2018	Imported		KAMIPL	3729.3	5025	4709	0.85
612	2018	Dec	7	412000097/04.12.2018	07 December 2018	Domestic	Amrapalli	BHKD	3917.3	3543	3164	0.6
613	2018	Dec	8	112000003/05.12.2018	08 December 2018	Domestic	Mugadh	PHULBASIA	3607.4	3386	3167	0.59
614	2018	Dec	10	412000250/06.12.2018	10 December 2018	Domestic	Ashoka+Piparwar	PTRU	3859.1	3348	3120	0.35
615	2018	Dec	10	112000004/07.12.2018	10 December 2018	Domestic	Magadh	PHULBASIA	3540.3	3472	3217	0.64
616	2018	Dec	10	412000097/06.12.2018	10 December 2018	Domestic	Amrapalli	BARKAKANA	3927.9	3518	3330	0.35
617	2018	Dec	10	412000251/07.12.2018	10 December 2018	Domestic	Ashok+Giddi	PTRU	3823.6	3274	3052	0.47
618	2018	Dec	11	412000467/07.12.2018	11 December 2018	Imported		KAMIPL	3862.4	5426	5156	0.84
619	2018	Dec	11	412000213/07.12.2018	11 December 2018	Domestic	Tetariakhar	GOLA	3813.4	3536	3220	0.34
620	2018	Dec	11	112000005/09.12.2018	11 December 2018	Domestic	Magadh	PHULBASIA	3855.1	3359	3092	0.47
621	2018	Dec	11	412000097/07.12.2018	11 December 2018	Domestic	Amrapalli	BARKAKANA	3933.7	3608	3323	0.36
622	2018	Nov	12	112000008/09.12.2018	12 November 2018	Domestic	Magadh	PHULBASIA	3797.1	3424	3111	0.5
623	2018	Dec	13	412000284/08.12.2018	13 December 2018	Domestic	Tetariakhar	HTE	3721.6	3544	3159	0.45
624	2018	Dec	12	412000098/09.12.2018	12 December 2018	Domestic	Amrapalli+Tetariakhar	BARKAKANA	3686.7	3569	3375	0.39
625	2018	Dec	16	412000214/13.12.2018	16 December 2018	Domestic	Tetariakhar	GOLA	3506.7	3632	3364	0.41
626	2018	Dec	17	412000098/14.12.2018	17 December 2018	Domestic	Tetariakhar	BHKD	3872.0	3545	3272	0.42
627	2018	Dec	17	412000093/15.12.2018	17 December 2018	Domestic	Amrapalli	BARKAKANA	3920.8	3529	3244	0.45
628	2018	Dec	18	112000007/13.12.2018	18 December 2018	Domestic	Tetariakhar+Magadh	PHULBASIA	3899.2	3385	3111	0.47
629	2018	Dec	18	112000001/13.12.2018	18 December 2018	Domestic	Magadh (L)	BUKRU	3514.8	3603	3298	0.56
630	2018	Dec	19	412000285/14.12.2018	19 December 2018	Domestic	Ashok (L)	HTE	3725.1	3606	3309	0.58
631	2018	Dec	19	412000408/17.12.2018	19 December 2018	Domestic	Tetariakhar	TORI	3521.1	3598	3297	0.61
632	2018	Dec	19	412000109/16.12.2018	19 December 2018	Domestic	EA-Banjora	BHAGA	3606.3	3695	3574	0.54
633	2018	Dec	19	112000008/16.12.2018	19 December 2018	Domestic	Tetariakhar	PHULBASIA	3631.6	3188	2941	0.47
634	2018	Dec	19	112000001/17.12.2018	19 December 2018	Domestic	Piparwar (L)	RAJDHAR	3844.5	3559	3341	0.43
635	2018	Dec	20	412000099/17.12.2018	20 December 2018	Domestic	Amrapalli	BHKD	3842.6	3365	3219	0.55
636	2018	Dec	22	112000159/18.12.2018	22 December 2018	Domestic	Tetariakhar(L)	TORI	3882.5	3335	2966	0.58
637	2018	Dec	22	112000158/18.12.2018	22 December 2018	Domestic	Tetariakhar(L)	TORI	3244.8	3198	2900	0.62
638	2018	Dec	22	412000103/21.12.2018	22 December 2018	Domestic	Amrapalli(L)	BARKICHANPI	3743.5	3581	3226	0.53
639	2018	Dec	23	112000160/19.12.2018	23 December 2018	Domestic	Tetariakhar(L)	TORI	3878.1	3247	2958	0.55
640	2018	Dec	23	112000002/20.12.2018	23 December 2018	Domestic	Magadh (L)	BUKRU	3761.5	3496	3221	0.58
641	2018	Dec	23	112000161/20.12.2018	23 December 2018	Domestic	Tetariakhar	TORI	3718.0	3012	2747	0.48
642	2018	Dec	24	412000254/19.12.2018	24 December 2018	Domestic	Amrapalli (L)	PTRU	3860.7	3008	2745	0.43
643	2018	Dec	24	112000162/21.12.2018	24 December 2018	Domestic	Tetariakhar (L)	TORI	3889.6	3103	2846	0.55
644	2018	Dec	25	412000286/20.12.2018	25 December 2018	Domestic	Amrapalli(L)	HTE	3462.0	3520	3224	0.67
645	2018	Dec	25	412000104/22.12.2018	25 December 2018	Domestic	Amrapalli(L)	BARKICHANPI	3830.5	3513	3213	0.54

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Rate No	Year	Month	Date	RR No.	Date of Sampling	Domestic / Imported	Name of Source	Name of Siding	Received Quantity (MT)	GCV (ADB) Kcal/kg	GCV (ARB) Kcal/kg	Sulphur
646	2018	Dec	25	412000217/23.12.2018	25 December 2018	Domestic	Amrapalli (L)	GOLA	3801.8	3386	3115	0.49
647	2018	Dec	26	412000216/19.12.2018	26 December 2018	Domestic	Tetariakhar	GOLA	3599.1	3568	3265	0.52
648	2018	Dec	28	112000163/25.12.2018	28 December 2018	Domestic	Tetariakhar(L)	TORI	3651.2	3534	3203	0.55
649	2018	Dec	29	112000164/26.12.2018	29 December 2018	Domestic	Tetariakhar	TORI	3685.0	3566	3306	0.48
650	2018	Dec	29	412000218/26.12.2018	29 December 2018	Domestic	Amrapalli(L)	GOLA	3468.4	3579	3263	0.63
651	2018	Dec	29	412000661/27.12.2018	29 December 2018	Imported		KAMIPL	3868.3	4977	4727	0.53
652	2018	Dec	30	412000100/27.12.2018	30 December 2018	Domestic	Urimari	SHKD	3737.0	3580	3207	0.51
653	2018	Dec	30	112000165/27.12.2018	30 December 2018	Domestic	Tetariakhar (L)	TORI	3915.4	3467	3101	0.46
654	2018	Dec	31	412000112/28.12.2018	31 December 2018	Domestic	EC-S. Banjora	BERMO	3943.0	3461	3334	0.59
									1389076.1	3781.7	3443.3	0.4
655	2019	Jan	1	112000002/28.12.2018	01 January 2019	Domestic	Magadh (L)	RLCM	3237.8	3580	3187	0.64
656	2019	Jan	1	412000183/27.12.2018	01 January 2019	Domestic	EC-AKW-BCCCL	DGSC	3062.8	3811	3688	0.72
657	2019	Jan	1	412000105/29.12.2018	01 January 2019	Domestic	Tetariakhar	BICL	3814.9	3619	3304	0.57
658	2019	Jan	2	412000260/29.12.2018	02 January 2019	Domestic	Giddi (L)	PTRU	3932.8	3552	3224	0.44
659	2019	Jan	2	412000185/29.12.2018	02 January 2019	Domestic	Govindapur	DGSC	3577.7	3735	3538	0.3
660	2019	Jan	2	112000003/30.12.2018	02 January 2019	Domestic	Ashoka (L)	RLCM	3810.7	3555	3232	0.38
661	2019	Jan	3	412000050/30.12.2018	03 January 2019	Domestic	Tetariakhar	BIRT	3888.8	3176	2960	0.36
662	2019	Jan	5	112000166/31.12.2018	05 January 2019	Domestic	Magadh(L)	TORI	3414.1	3525	3219	0.38
663	2019	Jan	5	112000167/02.01.2019	05 January 2019	Domestic	Amrapalli (L)	TORI	3690.6	3535	3242	0.37
664	2019	Jan	6	112000168/03.01.2019	06 January 2019	Domestic	Amrapalli (L)	TORI	3895.2	3404	3163	0.35
665	2019	Jan	9	412000114/04.01.2019	09 January 2019	Domestic	Karo(L)	BERMO	3822.3	3383	3232	0.23
666	2019	Jan	9	412000219/05.01.2019	09 January 2019	Domestic	Amrapalli (L)	GOLA	3950.6	3552	3346	0.18
667	2019	Jan	10	112000169/07.01.2019	10 January 2019	Domestic	Tetariakhar(L)	TORI	3786.7	3604	3343	0.4
668	2019	Jan	10	412000058/07.01.2019	10 January 2019	Domestic	Tetariakhar(L)	BIRT	3512.4	3484	3199	0.41
669	2019	Jan	11	412000665/09.01.2019	11 January 2019	Imported		KAMIPL	3888.3	4979	4658	0.93
670	2019	Jan	11	412000099/08.01.2019	11 January 2019	Domestic	Amrapalli(L)	OSBK	3759.9	3341	2929	0.41
671	2019	Jan	11	412000116/08.01.2019	11 January 2019	Domestic	Karo(L)	BERMO	3661.8	3290	3153	0.25
672	2019	Jan	13	112000170/09.01.2019	13 January 2019	Domestic	Magadh	TORI	3910.0	3346	3077	0.43
673	2019	Jan	13	412000287/09.01.2019	13 January 2019	Domestic	Amrapalli (L)	HTE	3748.5	3600	3299	0.42
674	2019	Jan	13	412000104/10.01.2019	13 January 2019	Domestic	Piparwar(L)	BHKD	3587.1	3460	3113	0.52
675	2019	Jan	14	412000220/11.01.2019	14 January 2019	Domestic	Amrapalli(L)	GOLA	3964.4	3515	3403	0.27
676	2019	Jan	16	412000061/11.01.2019	16-Jan-19	Domestic	Tetariakhar	BIRATOLI	3613.000	3444	3135	0.46
677	2019	Jan	16	412000062/12.01.2019	16-Jan-19	Domestic	Amrapalli	BIRATOLI	3883.000	3574	3261	0.52
678	2019	Jan	16	412000288/12.01.2019	16-Jan-19	Domestic	Magadh(L)	HATIA	3657.700	3789	3404	0.51
679	2019	Jan	17	412000100/12.01.2019	17-Jan-19	Domestic	Piparwar(L)	OSBK	4031.900	3678	3344	0.39
680	2019	Jan	17	112000171/12.01.2019	17-Jan-19	Domestic	Magadh	TORI	3786.100	3568	3231	0.55
681	2019	Jan	18	412000221/12.01.2019	18-Jan-18	Domestic	Amrapalli(L)	GOLA	3991.000	3622	3476	0.22
682	2019	Jan	18	412000106/13.01.2019	18-Jan-18	Domestic	Amrapalli(L)	BARKICHANPI	3647.700	3551	3241	0.53
683	2019	Jan	20	412000119/15.01.2019	20-Jan-19	Domestic	Karo(L)	BERMO,	3840.500	3409	3270	0.21
684	2019	Jan	20	112000172/14.01.2019	20-Jan-19	Domestic	Magadh(L)	TORI	3832.000	3899	3493	0.44
685	2019	Jan	21	412000120/18.01.2019	21-Jan-19	Domestic	Karo(L)	BERMO	3795.500	3441	3320	
686	2019	Jan	21	112000173/17.01.2019	21-Jan-19	Domestic	Magadh(L)	TORI	3768.500	3708	3477	
687	2019	Jan	24	412000090/17.01.2019	24-Jan-19	Domestic	Parej East(L)	LTBK	3879.600	3813	3525	
688	2019	Jan	24	412000222/17.01.2019	24-Jan-19	Domestic	Amrapalli (L)	GOLA ROAD	3510.700	3613	3196	
689	2019	Jan	24	412000606/19.01.2019	24-Jan-19	Imported		KPRK	3812.200			
690	2019	Jan	25	412000289/20.01.2019	25-Jan-19	Domestic	Amrapalli	Hatia	3733.300			
691	2019	Jan	26	412000665/21.01.2019	26-Jan-19	Domestic	Amrapalli	BIRT	3833.800			
692	2019	Jan	27	412000666/22.01.2019	27-Jan-19	Domestic	Amrapalli	BIRT	3852.900			
693	2019	Jan	26	412000122/23.01.2019	26-Jan-19	Domestic	Karo(L)	BERMO	3711.800			
694	2019	Jan	27	412000290/25.01.2019	27-Jan-19	Domestic	Karo(L)	HATIA	3650.100			
695	2019	Jan	30	112000204/11/27/2019	30-Jan-19	Domestic	Ashoka	RLCM	3747.100			
696	2019	Jan	30	112000174/11/27/2019	30-Jan-19	Domestic	Amrapalli	TAST	3790.500			
697	2019	Jan	31	112000065/11/31/2019	31-Jan-19	Domestic	Ashoka	RLCM	3917.200			
699	2019	Jan	31	412000223/11/28/2019	31-Jan-19	Domestic	Amrapalli	GRE	3699.400			
									164843.5	3592.8	3320.1	0.4



CERTIFICATE

We have verified the books of Account of M/s. GVK Power (Goindwal Sahib) Limited having Registered office at Plot No 10, Paigah Colony, S.P.Road, Secunderabad, and certify that an amount of Rs 69.86 lakhs has been incurred on capital expenditure during the FY 2019-20 (till 29th Feb 2020) towards setting up of Coal Testing Lab.

For **SARANGA PANI & CO**
Chartered Accountants
FRN: 050030S

Place: Hyderabad

Date: 12.03.2020




C.Saranga Pani
Proprietor
(M.No.073178)