



PUNJAB STATE POWER CORPORATION LIMITED

O/o CHIEF ENGINEER/ARR&TR, Regd.office: PSEB Head Office,The Mall Patiala-147001. Tel.No.0175-2302531,Fax No.0175-2302416,email ce-arr-tr@pspcl.in
Corporate Identity Number: U40109PB2010SGC033813 Website: www.pspcl.in

To

Registrar,
Punjab State Electricity Regulatory Commission,
Chandigarh.

Memo. No. 5516 TR-5/952 Dated 23/6/2020

Subject: Petition No. 32 of 2019 filed by filed by GVK Power Ltd. for true up for FY 2016-17 under sections 62 and 86 of the Electricity Act, 2003 read with (a) Punjab State Electricity Regulatory Commission (Terms and Conditions of Determination of Tariff) Regulations, 2005 (b) The Central Electricity Regulatory Commission (Terms and Conditions of Determination of Tariff) Regulations, 2014, and (c) Amended and Restated Power Purchase Agreement dated 26.05.2009 executed between petitioner (Goindwal Sahib) Ltd. and Punjab State Power Corporation Ltd. (formally known as Punjab State Electricity Board)

In addition to PSPCL reply on subject cited petition submitted vide this office Memo no.5415 dated 27.05.2020, please find enclosed 7 No. sets of the Additional reply on behalf of PSPCL with requisite Affidavit in the subject cited petition for kind consideration of the Hon'ble Commission.

DA/As above


Chief Engineer/ARR&TR
PSPCL, Patiala

CC:-

GVK Power (Goindwal Sahib) Ltd.,
Paigah House, 156-159, Sardar Patel Road,
Secundrabad Telangana-540003.

Hon'ble Commission, there is no question of any 'true-up' of the capacity charges payable to the Petitioner as the same have already been determined on the annual audited accounts of the Petitioner with actual expenditure incurred till 31.3.2017.

3. That accordingly, the Petitioner had restricted the above said Reply only to the true-up proposal of energy charges claimed by the Petitioner while reserving its right to reply to its proposal for true-up of its capacity charges should the need so arise during the course of proceedings of the present Petition or as may be directed by this Hon'ble Commission. Notwithstanding the above it is submitted while filing the above said Reply certain technical and financial data/tables submitted by the Petitioner in the present petition as well as the various Tariff Formats were not specifically addressed in the said Reply. Accordingly, the Respondent craves leave of this Hon'ble Commission to make additional submissions on data submitted by the Petitioner vide various tables under the Petition as well as data submitted through Tariff Formats.

4. That Table 'A' of the Petition, the Petitioner has submitted a summary of capital expenditure incurred by it being a sum of Rs.4267.30 Cr (revised). However, the figures contained therein are based upon the claimed capital cost of the project and not the completed capital cost of the project as approved by this Hon'ble Commission as Rs.3058.37 Cr. in its Order dated 17.01.2020 passed in Petition Noo.54/2017 [hereinafter "the Final Tariff Order"]. The figures submitted by the Petitioner in the said Petition being inadmissible are therefore liable to be ignored by this Hon'ble Commission. Similarly, under Table 'B' of the Petition, the Petitioner has placed before this Hon'ble Commission its 'Summary of Means of Finance' which shows a total equity of Rs.1152.17 and debt as Rs.3115.13. However, this Hon'ble

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Commission in its Final Tariff Order has approved an amount of Rs.2269.18 Cr. as the total hard cost out of which Rs.1118.06 Cr. as the equity invested by the Petitioner and RS.1151.12 as the total term loan. Further a sum of Rs.200.55 has been considered by this Hon'ble Commission as normative loans. As such, since the said figures have been approved by this Hon'ble Commission, the figures submitted by the Petitioner under Table 'B' of the present Petition are inadmissible and liable to be ignored by this Hon'ble Commission.

5. That under Table 'C', 'D', 'E' and 'F' of the Petition, the Petitioner has produced computation and calculations of return on equity (RoE), interest on loan, depreciation schedule and depreciation for the Petitioners project. However, since the base figures for the above, being the capital cost of the project, the equity infused by the Petitioner and the term loans for the project, have been taken by the Petitioner as the amounts claimed by the Petitioner and not the amounts approved by this Hon'ble Commissions in its Final Tariff Order, the same are inadmissible and liable to be ignored by this Hon'ble Commission.
6. That insofar as Table 'G' and 'H' are concerned, it is submitted that the Petitioner has claimed a sum of Rs.79.63 Cr. as interest on working capital based on Regulation 28 of the CERC Tariff Regulations, 2014 and Rs.139.81 Cr. as per the norms prescribed under the CERC Tariff Regulations, 2014. Towards this it has been already submitted in detail in the main Reply filed by the Respondent on 27.05.2020 that the governing Regulations for determination of Tariff for the FY-2016-17 are the PSERC Tariff Regulations, 2005 and any reliance of the Petitioner on the PSERC Tariff Regulation, 2014 or CERC Tariff Regulations, 2014 is therefore erroneous. Interest on working capital as per Regulation 30(4) & (5) of the PSERC Tariff Regulation, 2005 for the generation business is to computed as under:

"(4) Working capital for a company performing generation, distribution and trading functions shall be the sum of the following:

- (i) Fuel Cost for two months*
- (ii) Operation and Maintenance expenses for one month*
- (iii) Receivables for two months*
- (iv) Maintenance spares @15% of O&M expenses*

Less Consumer Security Deposit

(5) The rate of interest on working capital shall be equal to the actual rate of interest paid/ payable on loans by the licensee (s) or the State Bank of India Advance Rate as on April 1 of the relevant year, whichever is lower. The interest on working capital shall be payable on normative basis notwithstanding that the licensee (s) has not taken working capital loan from any outside agency or has exceeded the working capital loan amount worked out on the normative figures."

Further, Operations and Maintenance expenses are computed under Regulation 28 of the PSERC Regulations, 2005 which provide as under:

"(1) 'Operation & Maintenance expenses' or 'O&M expenses' shall mean repair and maintenance (R&M) expenses, employee expenses and administrative & general expenses (A&G) including insurance.

(2) O&M expenses for distribution licensee (s) shall be determined by Commission as follows:

(a) O&M expenses as approved by the Commission for the year 2011-12 (true up) shall be considered as base O&M expenses for determination of O&M expenses for subsequent years.

(b) Base O&M expenses (except employee cost) as above shall be adjusted according to variation in the average rate (on monthly basis) of

Wholesale Price Index (all commodities) over the year to determine the O&M expenses for subsequent years.

Provided that any expenditure on account of license fee, initial or renewal, fees for determination of tariff and audit fee shall be allowed on actual basis over and above the A&G expenses approved by the Commission

(c) In case of a new distribution licensee (s), the Commission shall make suitable assessment of base O&M expenses of the new licensee (s) and allow O&M expenses for subsequent years for the new licensee (s) on the basis of such estimation and principle as given in clause (b) above. However, for employee cost the principle specified in clause (3) below will be followed.

(3) The employee cost for a distribution licensee (s) shall be determined as follows:

(a) The employee cost as claimed by the distribution licensee (s) shall be considered in two parts:

(i) Terminal benefits such as Death-cum-Retirement Gratuity, Pension, Commuted Pension. Leave Encashment LTC, Medical reimbursement including fixed medical allowance in respect of pensioners and share of BBMB employee expenses and

(ii) all other expenses accounted for under different sub-heads of employee cost taken together.

The cost component of terminal benefits and BBMB expenses shall be allowed on actual basis and increase in all other expenses under different sub-heads shall be limited to the increase in Wholesale Price Index (all commodities) as per clause (2) (b) above.

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- (b) *Exceptional increase in employee cost on account of pay revision etc. shall be considered separately by the Commission.*
- (c) *The additional employee cost in case of New installations/Network for the year of installation shall be considered separately by the Commission on case to case basis keeping in view the principles and methodologies enunciated in these regulations.*
- (5) (a) *For the determination of O&M expenses (except employee cost) for generating company, the Commission shall allow O & M expenses (except employee cost) in accordance with Clause (2). The employee cost will, however, be determined keeping in view the provisions contained in Clause (3).*
- (b) *In case of a new generating company (s), the Commission shall make suitable assessment of base O&M expenses of the new licensee (s) and allow O&M expenses for subsequent years for the new licensee (s) on the basis of such estimation and principle as given in Clause (2)(b) above. However, for employee cost the principle specified in Clause (3) above will be followed.*

That in view of the above it is submitted the O&M expenses are required to be recomputed by the Petitioner strictly in accordance with the methodology prescribed under Regulations 28 of the PSERC Tariff Regulations 2014. Further since the O&M expenses form an important base for computation of Interest on working Capital under the 2005 Regulations, based on O&M expenses so computed the Petitioner is required to recompute its Interest on working Capital. As such the current figures submitted by the Petitioner, being not in accordance with the applicable of PSERC Tariff Regulations 2005 are inadmissible and are liable to be rejected. In view thereof, this Hon'ble Commission may

kindly direct the Petitioner to rework the above figures in accordance with the PSERC Tariff Regulation, 2005.

7. That as stated hereinabove, since the figures computed by the Petitioner for O&M expenses, Depreciation, Interest on Loans, Interest on working Capital and Return on Equity do not hold either on account of being contrary to the applicable PSERC Tariff Regulations 2005 or not being in accordance of the Final Tariff Order passed by this Hon'ble Commission, the computation of 'Total Fixed Charges' under Table 'I' of the Petition is totally erroneous and is liable to be ignored by this Hon'ble Commission.
8. That in Para 26 of the present of Petition, under the head of 'Installed Capacity & Generation' the Petitioner has submitted 'Table J' wherein the gross generation during FY 2016-17 has been stated to be 197.09 Mus. However, this is not the Gross Generation of the Petitioners project but is rather the Declared Capacity (DC) of the project which is as per the State Energy Accounts (SEA) issued by SLDC. The Respondent craves leave of this Hon'ble Commission to refer to rely upon the month-wise DC of the Petitioners project on which the billing had been done in respect of capacity charges for FY 2016-17 which annexed herewith and marked as **Annexure "R-1"**.
9. That under Para 27 of the present of Petition, the Petitioner has submitted 'Table K' wherein details of Sale of Energy on Actuals is given. In response thereto it is submitted that the payment of energy charges to the Petitioner is being done as per the month wise energy scheduled by Respondent on the basis of which the billing had been done as per state energy accounts issued by the SLDC for FY 2016-17. The Respondent craves leave of this Hon'ble Commission to refer to rely upon the energy scheduled for FY 2016-17 by the Respondent is as per **Annexure "R-1"**.

10. That under Para 36 of the present of Petition, the Petitioner has submitted 'Table L' wherein details of 'Coal Consumption in MT' to generate electricity in FY 2016-17 has been furnished by the Petitioner. Under the said Table the Petitioner has submitted that a total of 3163.04 MT of coal was consumed by the Petitioner during the month of March 2017. However, as per the state energy account issued by SLDC for the month of March-2017, copy whereof is annexed hereto and marked as **Annexure "R-2"**, both the **Declared Capacity (DC)** of the plant and scheduled energy (SE) by the Respondent were NIL. Despite the DC and SE being NIL the Petitioner has submitted that it had consumed coal of 3163.04 MT for the month of Mar-2017. It is submitted it is incomprehensible as to how coal can be consumed by the Petitioner without there being any generation during the month of March 2017. In view thereof, the Petitioner is required to provide justification for the same.
11. That under Para 41 of the present of Petition, the Petitioner has submitted 'Table M' wherein details 'Auxiliary Consumption' in FY 2016-17 has been provided by the Petitioner. Towards this end it is submitted that the normative auxiliary consumption for billing purpose by PSPCL has been considered as 9% in line with Regulation 36(E) (a) CERC Tariff regulations 2014 for FY 2016-17 instead of taking actual auxiliary consumptions as submitted by the plant.
12. That under Paras 45 and 47 of the present Petition, the Petitioner has submitted 'Table N' and 'Table O' wherein details of the actual Design Heat Rate in FY 2016-17 and details of actual Specific Fuel Oil consumption in FY 2016-17 is given. Towards this end it is submitted that the Station heat rate for FY 2016-17 has been calculated by the Petitioner on the basis of CERC Tariff Regulation 36(c)(b) 2014. The station heat rate is calculated by multiplying Design Heat Rate (2221 Kcal/kwh) with a factor 1.045. Accordingly, the station heat rate (SHR) of the plant comes out 2321 Kcal/Kwh which has also been

considered for the purpose of billing by the Respondent during FY 2016-17 instead of the actual Design Heat Rate. Similarly, for billing purposes, the specific fuel oil consumption which has been considered by the Respondent is based on normative basis i.e. 0.5 ml/kwh for FY 2016-17 which is as per CERC Tariff Regulations 2014.

13. That under Para 48 of the present of Petition, the Petitioner has submitted 'Table P' wherein GCV of coal in FY 2016-17 has been supplied by the Petitioner. Towards this end, it is submitted that in compliance of the Order dated 06.03.2019 passed by this Hon'ble Commission passed in Petition No. 68/2017, the GCV which has been considered for the purpose of billing is provided under **Annexure "R-1"**. The detail provided by the Petitioner under the said Table 'P' is also in line with the above said Order passed by this Hon'ble Commission. However, it may be mentioned herein that the above findings of this Hon'ble Commission as regards GCV in the said Order have been challenged by the Respondent before the Hon'ble Appellate Tribunal in Appeal No. 192/2019 and the same is pending adjudication. As such, any true up on the said aspect would be subject to the outcome of the said Appeal.
14. That under Para 51 of the present of Petition, the Petitioner has submitted 'Table Q' and 'R' wherein details of Landed Price of Coal and the energy charges in FY 2016-17 has been supplied by the Petitioner. In the said Table, the Petitioner has claimed an amount of Rs.6211/MT for April 2016, Rs.5701/MT for July 2016 and Rs.5429/MT for the month of August 2016. However, the landed price of coal considered by Respondent for billing purpose for FY 2016-17 (as provided under **Annexure "R-1"**) based on the landed price of coal procured by the Petitioner, Railway Transportation charges thereof and Road Transportation charges based on Order dated 6.3.19 passed in Petition No. 68/2017 pronounced by Hon'ble commission and bills

submitted by the Petitioner greatly differs from the Landed Price of Coal submitted by the Petitioner. Detailed calculations of the landed cost of coal as computed by the Respondent are annexed hereto and marked as **Annexure "R-1"**. The Respondent craves leave of this Hon'ble Commission to refer to and rely upon the details provided by the Respondent in **Annexure "R-1"** as response to the figures submitted by the Petitioner in the above Table Q and R.

15. That it is further submitted that under Format 2 the Petitioner has submitted the total fuel cost of Rs. 66.45 Crores for FY 2016-17. In this regard, it is submitted that the billing of the energy charges for the Petitioner's project is done on the basis of energy scheduled by Respondent. Since no energy had been scheduled during the month of Mar-2017 by the Respondent, the energy charges for the month comes out NIL, whereas Petitioner in the present Petition has submitted the fuel cost even for the month of March 2017 which cannot be permitted by this Hon'ble Commission. Moreover, since the energy charge rate is calculated on the basis of normative parameters instead of actual, while working out calculations for energy charges, fuel transit & handling loss has been considered by the Respondent as per order dated 06.03.2019 passed in Petition No.68/2017 i.e. 1% or actual transit loss whichever is less. The energy bills for the months of April-16, July-16 & Aug-16 submitted by the Petitioner to the Respondent and details of actual energy charges paid during FY 2016-17 are also enclosed herein and marked as **Annexure "R-3"**.
16. That the Respondent further respectfully submits that since the details provided by the Petitioner in the various Tariff Formats annexed along with the Petitioner are also based upon based figures of the proposed capital cost of the Project and not the completed capital cost as approved by this Hon'ble

Commission in its Final Tariff Order, the said details are in admissible and are liable to be ignored by this Hon'ble Commission.

PRAYER

It is therefore, most respectfully prayed that this Hon'ble Commission may be pleased to:

- (c) take the objection and submissions made by the Respondent in the present Additional Reply on record and consider the same while adjudicating the present Petition; and
- (d) pass such further and other order(s) as this Hon'ble commission may deem fit in the facts and circumstances of the present case.

B. Sharma

Chief Engineer/ARR&TR,
PSPCL, Patiala.

Annexure 'R-1'

GVK POWER BILLS CALCULATIONS FOR 2016-17

S. NO.	Item	Aronym	Units	Apr-16 30	Jul-16 31	Aug-16 31
				PSERC Order dated 6.3.19 in Pet 68 of 2017.	PSERC Order dated 6.3.19 in Pet 68 of 2017.	PSERC Order dated 6.3.19 in Pet 68 of 2017.
1	Normative Gross station heat rate	GHR	Kcal/Kwh	2321	2321	2321
2	Normative auxiliary consumption in %	AUX	%	9	9	9
3	Normative Transit Loss in %		%	1	1	1
4	Specific Fuel oil Consumption	SFC	ml/Kwh	0.5	0.5	0.5
5	Weighted Average Calorific value of secondary fuel	CVSF	Kcal/ml	10.267	10.700	10.700
6	Weighted average Landed Price of Secondary fuel	LPSFi	Rs/ml	0.022	0.034	0.040
7	Weighted average GCV of coal Considered (E-Auction)	CVPF	Kcal/Kg	4256	4453	4006
8	Weighted average landed price of coal (E-Auction)	LPPF	Rs/Kg	5.391	5.397	4.932
9	Energy charges rate (E-Auction)	ECR	Rs./unit	3.235	3.102	3.154
10	Energy scheduled during the billing Period (E-Auction)		kwh	23955425	71124150	80240750
11	Total Energy charges for billing period		Rs.	77495800	220627113	253079326
12	Discount under Shakti Scheme @ 0.02 Rs./Kwh		Rs.	0	0	0
13	Net Energy Charges Payable for billing period		Rs.	77495800	220627113	253079326
14	Fixed charges rate		Rs./unit	1.926	1.926	1.926
15	Energy Declared during the billing Period		kwh	31059150	83685600	82360300
16	Capacity charges payable for the billing period		Rs.	59819923	161178466	158625938
17	Total charges		Rs.	137315723	381805579	411705263

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AEE/ JPP-3

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Sr. Exec / JPP-3

APR-16

Revised GVK FIRM POWER BILL FOR THE MONTH OF 16.4.16 to 30.4.16 as per PSERC order dated 6.3.19

S- NO.	Item	Aronym	Units of Measurement	Value		Remarks
				As per PSPCL	As per GVK	
1	Normative Gross station heat rate	GHR	Kcal/Kwh	2321	2321	as per CERC norms & performance guarantee of BHEL
2	Specific Fuel oil Consumption	SFC	ml/Kwh	0.5	0.5	actual fuel oil consumption is more than normal specific fuel oil consumption
3	Calorific value of secondary fuel	CVSF	Kcal/ml	10.267	10.267	Anx-I,table:2
4	Weighted average landed price of coal	LPPF	Rs/Kg	5.3914	6.151	As per Anx-II (weighted average of GVK is lower than PSPCL)
5	Weighted average GCV of coal	CVPF	Kcal/Kg	4256	3789.244	
6	Weighted average Landed Price of Secondary fuel	LPSFi	Rs./ml	0.022	0.022	Anx-I,table:1
7	Normative auxiliary consumption in %	AUX	%	9	9	as per CERC norms
8	Energy charges rate	ECR	Rs./unit	3.235	4.14	as per PSERC norms
9	Energy scheduled during the billing Period		kwh	23955425	23955425	As per SLDC
10	Energy charges for the billing period		Rs.	77495800	99247326	S. No. (8 x 9)
11	Fixed charge rate		Rs./unit	1.926		Anx-111
12	Energy declared during the billing period		kwh	31059150		As per SLDC
13	Capacity charges for the billing period		Rs.	59819923	69167299	S. No. (11*12)
14	Total Charges		Rs.	137315723	168414625	
15	Rebate		Rs.			(@ 2%)
16	Net Payable amount		Rs.	137315723	168414625	

Sanjay
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Table 1 : weighted average landed price of Secondary Fuel for April, 2016

S. no.	particulars	Qty. in KL	cost (rs.)
1	LDO	996.94	30174052.55
2	HFO	2446.39	44881863.11
	TOTAL	3443.33	75055915.7
	Weighted average price/KL		21797.48
	Weighted average price/ml		0.022

Table 2 : weighted average GCV of Secondary Fuel

S. no.	particulars	Qty. in KL	GCV
1	LDO	996.4	10700
2	HFO	2446.39	10090
	Weighted average GCV kcal/ml		10.267

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Description	as per GVK data		
	Qty(MT)	**Qty (MT) after transit losses @1%	Cost/MT (RS.)
Cost of coal (As per invoices of CCL)	34516.49	34171.33	3503.03

Description	as per GNDTP BTI of April-16	as per GGSSTP Ropar of April-16	as per GHTP Lehra Mohabbat of April-16	Weighted Average of PSPCL Thermal Plants	AS per GVK data	Minimum of PSPCL & GVK
		22205.8	0		34516.49	
		2434.06	0.00	2434.06	3503.03	
		4256	0	4256	3619	
	0	0.5719	#DIV/0!	0.5719	0.9680	0.5719

Description	Qty(MT)	**Qty (MT) after transit losses @ 1%	Cost(Rs.)	Cost/MT (RS.)
Cost of coal (As per PSERC order min. of GVK & PSPCL)				2434.060
Cost of freight paid to railway (as per railway receipt)	34723.30	34376.07	92725319	2697.380
cost of STC per MT (In Rs.)				260.00
cost of coal per MT (In Rs.)				5391.440
cost of coal per KG (In Rs.)				5.3914

** Transit loss is calculated @ normative transit loss(1%) as per PSERC order dated 6.3.19. Actual transit loss is greater than the normative transit loss(1%)

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Statement of Weighted average landed price of primary fuel (Coal) under e auction

Sr.No	Particulars	Mine	date	Coal Purchases				Railway Transport Cost				Recovery due to underloading	Net Amount (Rs)	GCV (ARB Tm Basis)	GCV Product (QTY*GCV)
				Qty - MT	Rate / MT	Amount (Rs)	date of receipt of coal at site	Qty - MT	Rate / MT	Amount (Rs)					
1	Central Coal Fields		31.12.15	3596.59	3,468.00	12,472,974.12		3677.3	2,725.74	10,023,373.14	213,574	9,809,799.18	3,690	19,569,237.00	
	Godavari		10/5/17.2.16	3889.7	3,468.00	13,489,480.00		3870.4	2,757.37	10,534,245.16	342,892	10,191,353.64	3,469	13,252,967.60	
	Godavari		10/6/19.2.16	3847.2	3,468.00	13,342,090.00		3911.5	2,725.45	10,660,605.35	190,643	10,469,961.93	3,661	14,320,001.50	
	Godavari		11/5/18.3.16	3924.6	3,468.00	13,610,513.00		3906	2,710.96	10,589,021.00	157,847	10,431,173.58	3,749	14,643,594.00	
	Godavari		11/6/19.3.16	3910.4	3,468.00	13,561,267.00		3889.7	2,734.84	10,637,699.00	214,640	10,423,058.51	3,812	14,827,536.40	
	Godavari		11/9/27.3.16	3836.2	3,468.00	13,303,942.00		3847.2	2,742.90	10,552,479.00	290,365	10,262,114.41	3,492	13,434,422.40	
	Godavari		11/7/28.3.16	3830.9	3,468.00	13,285,561.00		3924.6	2,700.09	10,596,792.00	118,919	10,477,873.17	3,638	14,277,694.80	
	Godavari		12/16/30.3.16	3838.6	3,468.00	13,312,265.00		3910.4	2,700.64	10,560,580.00	131,184	10,429,396.00	3,564	13,996,665.60	
	Godavari		28/9.4.16	3842.3	3,468.00	13,325,096.00		3836.2	2,744.84	10,529,752.00	299,164	10,230,588.48	3,492	13,396,010.40	
	Total			34,516.49	3,468.00	119,703,188.12		34,723.30	2,726.83	94,684,546.65	1,959,227.77	92,725,318.88	3,619	125,658,129.70	

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Apr-16

Coal purchase under e-Auction stc details

Sr.No	Particulars	mine	Railway Siding	RR No	RR Date	Date of Receipt of Rake	Despatches to GS Site		loading point	Railway Siding distance from mine in Km	avg Railway Siding distance from mine in Km	nearest Railway Siding distance from mine in Km	Nearest Railway Siding distance from mine in Km	avg Railway Siding distance from mine in Km	Avg distance*Q
							Qty- MT	MT							
1	GS Rake-17	pipaware	Barkakana				3677.3	Barkakana	115-120	117.5	KSNT	30-35	119,512.25		
2	GS Rake-18	pipaware	Barkakana				3820.4	Barkakana	115-120	117.5	KSNT	30-35	124,163.00		
3	GS Rake-19	pipaware	Barkakana				3911.5	Barkakana	115-120	117.5	KSNT	30-35	127,123.75		
4	GS Rake-20	pipaware	Barkakana				3906	Barkakana	115-120	117.5	KSNT	30-35	126,945.00		
5	GS Rake-21	pipaware	Barkakana				3889.7	Barkakana	115-120	117.5	KSNT	30-35	126,415.25		
6	GS Rake-22	pipaware	Barkakana				3847.2	Barkakana	115-120	117.5	KSNT	30-35	125,034.00		
7	GS Rake-23	pipaware	Barkakana				3924.6	Barkakana	115-120	117.5	KSNT	30-35	127,549.50		
8	GS Rake-24	pipaware	Barkakana				3910.4	Barkakana	115-120	117.5	KSNT	30-35	127,086.00		
9	GS Rake-25	pipaware	Barkakana				3836.2	Barkakana	115-120	117.5	KSNT	30-35	124,676.50		
Total							34,723.30						1,128,507.25		

Weighted Avg distance for STC	32.50
STC=Weighted avg distance @ Rs 8 per MT	260.00

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July-16

Revised GVK FIRM POWER BILL FOR THE MONTH OF July-16 as per PSERC order dated 6.3.19

S. NO.	Item	Aronym	Units of Measurement	Value		Remarks
				As per PSPCL	As per GVK	
1	Normative Gross station heat rate	GHR	Kcal/Kwh	2321	2321	as per CERC norms & performance guarrantee of BHEL
2	Specific Fuel oil Consumption	SFC	ml/Kwh	0.5	0.5	actual fuel oil consumption is more than normal specific fuel oil consumption
3	Calorific value of secondary fuel	CVSF	Kcal/ml	10.700	10.7	Anx-I,table:2
4	Weighted average landed price of coal	LPPF	Rs/Kg	5.3972	5.873	As per Anx-II (weighted average of GVK is lower than PSPCL)
5	Weighted average GCV of coal	CVPF	Kcal/Kg	4453	4482	
6	Weighted average Landed Price of Secondary fuel	LPSFi	Rs./ml	0.034	0.034	Anx-I,table:1
7	Normative auxiliary consumption in %	AUX	%	9	9	as per CERC norms
8	Energy charges rate	ECR	Rs./unit	3.102	3.35	as per PSERC norms
9	Energy scheduled during the billing Period		kwh	71124150	71124150	As per SLDC
10	Energy charges for the billing period		Rs.	220627113	238122180	S. No. (8 x 9)
11	Fixed charges rate		Rs./unit	1.926		Anx-III
12	Energy Declared during the billing Period		kwh	83685600	0	As per SLDC
13	Capacity charges for the billing period		Rs.	161178466	223744354	S. No. (11 x 12)
14	Total charges		Rs.	381805579	461866534	S. No. (10+13)
15	Rebate		Rs.		0	((@ 2)
16	Net payable amount		Rs.	381805579	0	

Suman
AEE/JPP-3

SD
Suman/JPP-3

Table 1 : weighted average landed price of Secondary Fuel for July 2016

S. no.	particulars	Qty. in KL	cost (rs.)
1	LDO	136.72	4631169
2	HFO	0.00	0
	TOTAL	136.72	4631169.0
	Weighted average price/KL		33873.38
	Weighted average price/ml		0.034

Table 2 : weighted average GCV of Secondary Fuel

S. no.	particulars	Qty. in KL	GCV
1	LDO	136.72	10700
2	HFO	0	10120
	Weighted average GCV kcal/ml		10.700

Amir
AEE/DP-3

SR
Sr. Asst / DP-3

Description	as per GVK data		
	Qty(MT)	**Qty (MT) after transit losses @ 1%	Cost(MT (RS.))
Cost of coal (As per invoices of CCL)	49014.43	48524.29	2226.89

	as per GNDTP BTI of July-16	as per GGSSTP Ropar of July-16	as per GHTP Lehra Mohabbat of July-16	Weighted Average of PSPCL Thermal Plants	AS per GVK data	Minimum of PSPCL & GVK
quantity of coal (MT)	0	207371.5	210377.37		49014.43	
cost of coal per MT (In Rs.)	0	2338.17	2511.85	2425.03	2226.89	
GCV (Kcal/Kg) (ARB TM basis)	0	4480	3808	4142	4453	
Cost/GCV	0	0.5219	0.6596	0.5857	0.5000	0.5000

Description	Qty(MT)	**Qty (MT) after transit losses @ 1%	Cost(Rs.)	Cost/MT (RS.)	Cost/MT (RS.)
Cost of coal (As per PSERC order min. of GVK & PSPCL)					2226.891
Cost of freight paid to railway (as per railway receipt)	49014.43	48524.29	141220136	2910.30	2910.298
cost of STC per MT (In Rs.)				260.00	260.00
cost of coal per MT (In Rs.)					5397.189
cost of coal per KG (In Rs.)					5.3972

** Transit loss is calculated @ normative transit loss(1%) as per PSERC order dated 6.3.19. Actual transit loss is greater than the normative transit loss(1%)

Divya
AEC/ JPL-3
28.04/2019-3

Statement of Weighted average landed price of primary fuel (Coal) under e auction

Sr.N O.S	Particular	Mine	date	Coal Purchases			Railway Transport Cost				Recovery due to underloading	Net Amount (Rs)	Unloading and handling		GCV (ARB TM Basis)	GCV Product (QTY*GCV)
				Qty - MT	Rate / MT	Amount (Rs)	date of receipt of coal at site	Qty - MT	Rate / MT	Amount (Rs)			Rate/ MT	Amount (Rs)		
				3694.6	2,247.32	8,302,936.64	22.3.16	3694.6	2,761.30	10,201,906.00	44,032	10,157,874.19	4,651	17,183,585		
				4156	2,207.71	9,175,263.11	30.3.16	4156	3,961.12	16,462,404.00	1,727	16,460,677.26	4,145	17,226,620		
				3925.6	2,228.60	8,748,586.65		3925.6	2,982.56	11,708,342.00	121,735	11,586,607.00	4,410	17,311,895		
				3997.1	2,252.69	8,992,976.89		3997.1	3,056.68	12,202,566.00	25,685	12,176,880.78	4,187	16,714,923		
				3,981.13	2,245.51	8,939,670.39		3,981.13	2,982.88	11,875,216.00	118,497	11,756,718.63	4,386	17,461,236		
				3476.58	2,163.87	7,522,851.52		3476.58	2,902.99	10,092,470.00	664,362	9,428,107.71	4,595	15,974,885		
				3858.2	2,195.93	8,472,327.19		3858.2	2,754.08	10,625,790	248,219	10,377,571.47	4,387	16,925,923		
				3125.42	2,124.18	6,638,948.17		3125.42	3,055.13	9,548,579.00	972,585	8,575,994.05	4,621	14,442,566		
				3643.3	2,130.64	7,762,560.22		3643.3	2,844.74	10,364,231.00	511,330	9,852,900.83	4,769	17,374,898		
				3858.9	2,198.30	8,483,006.68		3858.9	2,753.92	10,627,103.00	238,937	10,388,165.68	4,436	17,118,080		
				3847.6	2,226.00	8,564,766.15		3847.6	2,720.36	10,466,867.00	129,505	10,337,361.68	4,779	18,387,680		
				3600.3	2,213.31	7,968,596.90		3600.3	2,894.51	10,421,094.00	652,059	9,769,034.71	4,612	16,604,584		
				3854.7	2,201.41	8,485,793.44		3854.7	2,744.35	10,578,660.00	226,418	10,352,241.53	4,036	15,557,569		
				49014.43	2,204.62	108,058,283.95		49014.43	2,961.89	145175228	3955092.473	141,220,135.53	4,453	218,284,445.10		

Suman
A ee (800)-3
S. Xan / 700-3

Jul-16

Coal purchase under e-Auction stc details

Sr.No	Particulars	mine	Railway Siding	RR NO	RR Date	Date of Receipt of Rake	Despatches to GS Site		loading point	Railway Siding distance from mine in Km	avg Railway Siding distance from mine in Km	nearest Railway Siding distance from mine in Km	Nearest Railway Siding distance from mine in Km	avg Railway Siding distance from mine in Km	Avg distance*Q
							Qty-MT	MT							
1		pipanware	Barkakana				3694.6		Barkakana	115-120	117.5	KSNT	30-35	32.5	120,074.50
2		pipanware	Barkakana				4156		Barkakana	115-120	117.5	KSNT	30-35	32.5	135,070.00
3		pipanware	Barkakana				3925.6		Barkakana	115-120	117.5	KSNT	30-35	32.5	127,582.00
4		pipanware	Barkakana				3992.1		Barkakana	115-120	117.5	KSNT	30-35	32.5	129,743.25
5		pipanware	Barkakana				3,981.13		Barkakana	115-120	117.5	KSNT	30-35	32.5	129,986.75
6		pipanware	Barkakana				3476.58		Barkakana	115-120	117.5	KSNT	30-35	32.5	112,988.85
7		pipanware	Barkakana				3858.2		Barkakana	115-120	117.5	KSNT	30-35	32.5	125,391.50
8		pipanware	Barkakana				3125.42		Barkakana	115-120	117.5	KSNT	30-35	32.5	104,576.15
9		pipanware	Barkakana				3643.3		Barkakana	115-120	117.5	KSNT	30-35	32.5	118,407.25
10		pipanware	Barkakana				3858.9		Barkakana	115-120	117.5	KSNT	30-35	32.5	125,414.25
11		pipanware	Barkakana				3847.6		Barkakana	115-120	117.5	KSNT	30-35	32.5	125,047.00
12		pipanware	Barkakana				3600.3		Barkakana	115-120	117.5	KSNT	30-35	32.5	117,009.75
13		pipanware	Barkakana				3854.7		Barkakana	115-120	117.5	KSNT	30-35	32.5	125,277.75
							49,014.43								1,592,968.98
Weighted Avg distance for STC														32.50	
STC-Weighted avg distance @ Rs 8 per MT														260.00	

Sanjay
AEE/IPP-3
Sr. KM/IPP-3

Aug-16

Revised GVK FIRM POWER BILL FOR THE MONTH OF Aug-16 as per PSERC order dated 6.3.19

S. NO.	Item	Aronym	Units of Measurement	Value		Remarks
				As per PSPCL	As per GVK	
1	Normative Gross station heat rate	GHR	Kcal/Kwh	2321	2321	as per CERC norms & performance guarrantee of BHEL
2	Specific Fuel oil Consumption	SFC	ml/Kwh	0.5	0.5	actual fuel oil consumption is more than normal specific fuel oil consumption
3	Calorific value of secondary fuel	CVSF	Kcal/ml	10.700	10.7	Anx-I,table:2
4	Weighted average landed price of coal	LPPF	Rs/Kg	4.9320	5.664	As per Anx-II (weighted average of GVK is lower than PSPCL)
5	Weighted average GCV of coal	CVPF	Kcal/Kg	4006	4381	
6	Weighted average Landed Price of Secondary fuel	LPSFi	Rs./ml	0.040	0.04	Anx-I,table:1
7	Normative auxiliary consumption in %	AUX	%	9	9	as per CERC norms
8	Energy charges rate	ECR	Rs./unit	3.154	3.31	as per PSERC norms
9	Energy scheduled during the billing Period		kwh	80240750	80240750	As per SLDC
10	Energy charges for the billing period		Rs.	253079326	274047466	S. No. (8 x 9)
11	Fixed charges rate		Rs./unit	1.926		Anx-III
12	Energy Declared during the billing Period		kwh	82360300	84891380	As per SLDC
13	Capacity charges for the billing period		Rs.	158625938	199790650	S. No. (11 x 12)
15	Total Charges		Rs.	411705263	0	S.No (10+13)
	Rebate					(@ 2)
18	Net payable Amount		Rs.	411705263	473838116	S. No. (10+13+14+15)

Smirani
AEE/SPP-3

SD
Sr. Xem / SPP-3

Table 1 : weighted average landed price of Secondary Fuel for August 2016

S. no.	particulars	Qty. in KL	cost (rs.)
1	LDO	67.95	2711036
2	HFO	0.00	0
	TOTAL	67.95	2711036.0
	Weighted average price/KL		39897.51
	Weighted average price/ml		0.040

Table 2 : weighted average GCV of Secondary Fuel

S. no.	particulars	Qty. in KL	GCV
1	LDO	67.95	10700
2	HFO	0	0
	Weighted average GCV kcal/ml		10.700

[Signature]
AEE/JPP-3

[Signature]
Sr. xw/JPP-3

Description	as per GVK data		
	Qty(MT)	**Qty (MT) after transit losses @1%	Cost(MT (RS.))
Cost of coal (As per invoices of CCL)	36153.50	35791.97	75890469
			2120.32

	as per GNDTP BTI of Aug-16	as per GGSSTP Ropar of Aug-16	as per GHTP Lehra Mohabbat of Aug-16	Weighted Average of PSPCL Thermal Plants	AS per GVK data	Minimum of PSPCL & GVK
quantity of coal (MT)	0	54084.55	43730.18		36153.50	
cost of coal per MT (In Rs.)	0	2454.46	2672.32	2551.86	2120.32	
GCV (Kcal/Kg) (ARB TM basis)	0	4294	4087	4201	4006	
Cost/GCV	0	0.5716	0.6539	0.6074	0.5293	0.5293

Description	Qty(MT)	**Qty (MT) after transit losses @ 1%	Cost(Rs.)	Cost/MT (RS.)	Cost/MT (RS.)
Cost of coal (As per PSERC order min. of GVK & PSPCL)					2120.321
Cost of freight paid to railway (as per railway receipt)	36153.50	35791.97	91329077	2551.66	2551.664
cost of STC per MT (In Rs.)				260.00	260.00
cost of coal per MT (In Rs.)					4931.986
cost of coal per KG (In Rs.)					4.9320

** Transit loss is calculated @ normative transit loss (1%) as per PSERC order dated 6.3.19. Actual transit loss is greater than the normative transit loss (1%)

APR 21 2019
S. X. M. / P. P. 3

Statement of Weighted average landed price of primary fuel (Coal) under e auction (August 2016)

Sr.N Particulars	Mine	date	Coal Purchases				Railway Transport Cost				Leasing and		GCV (ARB TM Basis)	GCV Product (QTY*GCV)
			Qty - MT	Rate / MT	Amount (Rs)	date of receipt of coal	Qty - MT	Rate / MT	Amount (Rs)	Recovery due to underloading	Net Amount (Rs)	Rate / Amoun		
		5.6.16	3701.7	2,119.23	7,844,758.22		3701.7	2,846.68	10,537,564.00	527,734	10,009,829.82		3,942	14,592,101
		6.6.16	3606.7	2,092.26	7,546,143.66		3606.7	2,884.68	10,404,182.00	613,639	9,790,542.63		4,290	15,472,743
		9.6.16	3627	2,188.17	7,936,502.61		3627	2,761.82	10,017,132.00	262,032	9,755,099.57		4,130	14,979,510
		26.6.16	3564.6	2,033.77	7,249,587.17		3564.6	2,954.39	10,531,207.00	818,905	9,712,301.69		4,036	14,386,726
		27.6.16	3527.76	2,146.84	7,573,544.55		3527.76	2,917.12	10,290,890.00	704,077	9,586,812.74		4,340	15,310,478
		2.7.16	3718.2	2,164.30	8,047,298.34		3718.2	2,427.16	9,024,679.00	359,161	8,665,517.58		4,358	16,203,916
		2.7.16	3297.23	2,144.48	7,070,827.68		3297.23	2,654.11	8,751,227.00	1,018,343	7,732,883.50		4,112	13,558,210
		2.7.16	3353.01	2,057.79	6,899,777.06		3353.01	2,709.68	9,085,580.00	1,208,716	7,876,863.68		4,032	13,519,336
		2.7.16	3840.8	2,026.74	7,784,302.99		3840.8	2,415.51	9,277,509.00	271,271	9,006,238.03		3,038	11,668,350
		2.7.16	3916.5	2,026.74	7,937,727.21		3916.5	2,384.56	9,339,122.00	146,135	9,192,987.39		3,865	15,137,273
Total			36,153.50	2,099.12	75,890,469.49		36,153.50	2,690.17	97,259,092.00	5,930,015.36	91,329,076.64		4,006	144,828,642.98

Shri
AEE (FPI-3)

Shri
Sri xan (FPI-3)

Aug-16

Coal purchase under e-Auction stc details

Sr.No	Particulars	mine	Railway Siding	RR No	RR Date	Date of Receipt of Rake	Despatches to GS Site		loading point	Railway Siding distance from mine in km	avg Railway Siding distance from mine in km	nearest Railway Siding distance from mine in km	Nearest Railway Siding distance from mine in km	avg Railway Siding distance from mine in km	Avg distance*Q
							Qty. MT								
1		piparware	Barkakana				3701.7		Barkakana	115-120	117.5	30-35	30-35	32.5	120,305.25
2		piparware	Barkakana				3606.7		Barkakana	115-120	117.5	30-35	30-35	32.5	117,217.75
3		piparware	Barkakana				3627		Barkakana	115-120	117.5	30-35	30-35	32.5	117,877.50
4		piparware	Barkakana				3564.6		Barkakana	115-120	117.5	30-35	30-35	32.5	115,849.50
5		piparware	Barkakana				3527.76		Barkakana	115-120	117.5	30-35	30-35	32.5	114,652.20
6		piparware	Barkakana				3718.2		Barkakana	115-120	117.5	30-35	30-35	32.5	120,841.50
7		piparware	Barkakana				3297.23		Barkakana	115-120	117.5	30-35	30-35	32.5	107,159.98
8		piparware	Barkakana				3353.01		Barkakana	115-120	117.5	30-35	30-35	32.5	108,972.83
9	Transfer to RK50	piparware	dugdha				3,840.80		dugdha	115-120	117.5	30-35	30-35	32.5	124,826.00
10	Transfer to RKS1	piparware	dugdha				3,916.50		dugdha	115-120	117.5	30-35	30-35	32.5	127,286.25
Total							36,153.50								1,174,988.75

Weighted Avg distance for STC	32.50
STC=Weighted avg distance @ Rs 8 per MT	260.00


 AEE / JPL-3
 Sd/- Xun / JPL-3

Annexure 'R- 2'

FINAL ENERGY ACCOUNT FOR MONTH March,2017			
Details of Plant Capacity/ Declared Capacity			
DATE	Availability/DC(LUs) from		
	NPL	TSPL	GVK
01.03.2017	316.8000	441.9360	0.0000
02.03.2017	316.8000	441.9360	0.0000
03.03.2017	316.8000	441.9360	0.0000
04.03.2017	316.8000	441.9360	0.0000
05.03.2017	316.8000	441.9360	0.0000
06.03.2017	316.8000	441.9360	0.0000
07.03.2017	316.8000	441.9360	0.0000
08.03.2017	316.8000	441.9360	0.0000
09.03.2017	316.8000	441.9360	0.0000
10.03.2017	316.8000	441.9360	0.0000
11.03.2017	316.8000	441.9360	0.0000
12.03.2017	316.8000	441.9360	0.0000
13.03.2017	316.8000	441.9360	0.0000
14.03.2017	316.8000	441.9360	0.0000
15.03.2017	316.8000	441.9360	0.0000
16.03.2017	316.8000	441.9360	0.0000
17.03.2017	316.8000	441.9360	0.0000
18.03.2017	316.8000	441.9360	0.0000
19.03.2017	316.8000	441.9360	0.0000
20.03.2017	316.8000	441.9360	0.0000
21.03.2017	316.8000	436.1880	0.0000
22.03.2017	316.8000	405.1675	0.0000
23.03.2017	316.8000	438.4860	0.0000
24.03.2017	316.8000	405.9360	0.0000
25.03.2017	316.8000	423.1860	0.0000
26.03.2017	316.8000	403.3000	0.0000
27.03.2017	316.8000	347.3750	0.0000
28.03.2017	316.8000	312.0000	0.0000
29.03.2017	316.8000	384.0000	0.0000
30.03.2017	316.8000	326.2550	0.0000
31.03.2017	316.8000	252.0000	0.0000
TOTAL	9820.8000	12972.6135	0.0000

HSH
ACC/DPC-


ASE/DAE-1

FINAL ENERGY ACCOUNT FOR MONTH March,2017			
Details of ENERGY SCHEDULED/ BOOKED to PSPCL from NPL, TSPL & GVK			
DATE	ENERGY SCHEDULED /BOOKED(LUs) from		
	NPL	TSPL	GVK
01.03.2017	254.4000	209.8260	0.0000
02.03.2017	252.1000	210.4275	0.0000
03.03.2017	236.8000	208.6550	0.0000
04.03.2017	249.4500	193.1700	0.0000
05.03.2017	230.0500	171.7875	0.0000
06.03.2017	249.8000	200.6700	0.0000
07.03.2017	197.5500	158.7780	0.0000
08.03.2017	203.6250	110.1300	0.0000
09.03.2017	201.6500	39.1500	0.0000
10.03.2017	226.6500	0.0000	0.0000
11.03.2017	200.8000	0.0000	0.0000
12.03.2017	184.8750	0.0000	0.0000
13.03.2017	158.4000	0.0000	0.0000
14.03.2017	180.5750	0.0000	0.0000
15.03.2017	262.2500	0.0000	0.0000
16.03.2017	251.4500	0.0000	0.0000
17.03.2017	276.6000	0.0000	0.0000
18.03.2017	299.3000	0.0000	0.0000
19.03.2017	307.0500	0.0000	0.0000
20.03.2017	304.3000	68.9680	0.0000
21.03.2017	303.0500	117.9540	0.0000
22.03.2017	313.0500	225.9055	0.0000
23.03.2017	310.5500	233.0350	0.0000
24.03.2017	304.7500	336.7310	0.0000
25.03.2017	276.5500	273.8400	0.0000
26.03.2017	254.4000	248.4300	0.0000
27.03.2017	249.5000	229.9600	0.0000
28.03.2017	252.4250	261.2500	0.0000
29.03.2017	259.1000	296.1500	0.0000
30.03.2017	281.9000	254.7800	0.0000
31.03.2017	289.5500	238.4550	0.0000
TOTAL	7822.5000	4288.0525	0.0000

Hsh
AEE/IPC-1


AEE/IPC-1

Details of Plant Availability Factor (PAF) for IPP's:-

Name of the Thermal Plant	PAF (%)
Rajpura Thermal Plant (NPL)	100%
Talwandi Sabo Thermal Plant (TSPL)	94.690%
GVK Thermal Plant	0

Details of Cumulative Availability Factor (CAF) for IPP's:-

Name of the Thermal Plant	CAF (%)
Rajpura Thermal Plant (NPL)	92.920%
Talwandi Sabo Thermal Plant (TSPL)	77.721%
GVK Thermal Plant	4.707%

The account may be checked/reviewed by PSPCL before making payments.

Hsh
ACE/IPC-1


ASE/IPC-1

Annexure 'R-3'

GVK 2016-17

Month	Energy Charges Paid (Crores) as per Original bills			Revised energy Charges Paid (Crores) as per Hon'ble PSERC order dated 27.05.2019		Total Revised energy Charges Paid (Crores) as per Hon'ble PSERC order dated 27.05.2019	Total Payments of arrears corresponding to energy Charges Paid (Crores) as per Hon'ble PSERC order dated 27.05.2019	Interest paid on account of Payment of Arrears corresponding to Energy Charges Paid (Crores) as per Hon'ble PSERC order dated 06.03.2019/27.05.2019
	Under weighted average coal cost (Cr.)	Under shakti scheme coal cost (Cr.)	Total energy charges paid (Cr.)	Under weighted average coal cost (Cr.)	Under shakti scheme coal cost (Cr.)			
1	2a	2b	2=(2a+2b)	3a	3b	3=(3a+3b)	4=3-2	5
Apr/16	7.81	0.00	7.81	7.75	0.00	7.75	-0.06	
Jul/16	20.67	0.00	20.67	22.06	0.00	22.06	1.39	0.51
Aug/16	23.59	0.00	23.59	25.31	0.00	25.31	1.72	
TOTAL	52.07	0.00	52.07	55.12	0.00	55.12	3.05	0.51

Note: (+) means payments made to GVK

Note: (-) means payments made to PSPCL

Tomman
ACE
IPP-3

[Signature]
S.P. KUMAR IAS