

Office of Chief Engineer
Commercial Unit



U.P. Rajya Vidyut Utpadan Nigam Ltd.
14th Floor, Shakti bhawan Extn.
Lucknow -226001
Tel No.- 0522-2288056 / 2287030
CIN : U 40101UP1980SGC005065
gm.commercial@uprvunl.org

cecommercialunl@gmail.com

No. 537/UNL/CE(Comml.)/Energy Bill/FY (2022-23)

Date: 13, December- 2022

Superintending Engineer
Electricity Import-Export & Payment Circle
U.P. Power Corporation Ltd
11th floor, Shakti Bhawan Extn.
Lucknow-226001.

Subject: Provisional Main Energy Bill of various TPS of UPRVUNL for the month November-2022.

The Provisional Main Energy bill of various Thermal Power Stations of UPRVUNL against Electricity supplied by U.P. Rajya Vidyut Utpadan Nigam Ltd. to U.P. Power Corporation Ltd. during month **November-2022** as detailed below, is being enclosed for payment:-

Main Bill No.:- UNL/Energy Bill(SG/ESO)/2022-11/01, dt. 13.12.2022 **656.0042476 Crs**
(Rs Six hundred and fifty six crore, forty two thousand, four hundred and seventy six only)

It is, therefore, requested that the payment of this Bill in accordance with UPERC (Terms & Conditions of Generation Tariff) Regulation-2019, dt. 11.09.2019 and Power Purchase Agreements signed between UPRVUNL and UPPCL may kindly be ensured.

Last Energy Account from SLDC/ABT received on dt. 08.12.2022 for Parichha TPS.

Encl.: As above.

(Ashok Kumar Seth)

Chief Engineer (Commercial)

Date: 13, December- 2022

No. 537/UNL/CE(Comml.)/Energy Bill/FY (2022-23)

Copy forwarded to the followings for their kind information :-

1. PS to Managing Director, UPRVUNL, 7th floor, Shakti Bhawan, Lucknow.
2. Director (Project & Comml.), UPRVUNL, 8th floor, Shakti Bhawan Extn, Lucknow.
3. Director (Technical), UPRVUNL, 8th floor, Shakti Bhawan Extn, Lucknow.
4. Director (Finance), UPRVUNL, 8th floor, Shakti Bhawan Extn, Lucknow.

Copy forwarded to the followings for their kind information & necessary action :-

1. CE (TO/Fuel), UPRVUNL, 14th floor, Shakti Bhawan Extn, Lucknow.
2. Chief Engineer (L-1), Anpara/Obra/Harduaganj/Parichha TPS.
3. Dy General Manager (Accounts), UPRVUNL, 8th floor, Shakti Bhawan Extn, Lucknow.
4. Dy CAO (Finance), UPRVUNL, 8th floor, Shakti Bhawan Extn, Lucknow.
5. Chief Manager (F&A) CMU, UPRVUNL, 7th floor, Shakti Bhawan Extn, Lucknow.
6. Accounts Officer (Accounts), UPRVUNL, 9th floor, Shakti Bhawan Extn, Lucknow.

→ Summary file

(Ashok Kumar Seth)

Chief Engineer (Commercial)

U.P. Rajya Vidyut Utpadan Nigam Ltd.
14th Floor, Shakti Bhawan Extn., Lucknow
GST Reg. No.- 09AAACU4749DZ29

Bill of supply of Power of the month :
Name of Customer :-
Nov-22
U.P. Power Corporation Ltd.
Shakti Bhawan, Extn.
14, Ashok Marg, Lucknow
09AAACU5085M4ZM

UNL/Energy Bill (SG/ESO)/2022-11/01
Bill No. : 15/12/2022
Bill Date :
30 Days from the billing date
(i) UPERC Tariff Order Dt.29.04.2016 & 18.01.2017
(ii) UPERC Gen Reg.'19 Dt. 11.09.2019
(iii) PPA for various Thermal Power Stations.

GST Reg. No:

Provisional Main Energy Bill of UPRYUNL to UPPCL for Anpara A, Anpara B, Anpara D, Obra B, Parichha Extn, Parichha Extn Stage-2, Harduaganj Extn & Harduaganj (U#7).

Name of Thermal Power Station	Approved Plant capacity as per UPERC T.O. (MW)	Cum.Plant Availability		Total capacity charges approved by UPERC (Rs. Crs)	Capacity charges (Fixed Charges)		Amount of capacity charges payable for the month (Rs. Crs)	Scheduled Generation by SLDC/ Energy Sent Out by Plants (MU)	Energy Charges (E.C)		Total Energy Charges (Rs. Crs)	Total Amount Capacity Charges Energy Charges (Rs. Crs)
		Target by UPERC (%)	Actual till current month w.e.f April,2022 (%)		Percentage to be recovered (%)	Amount of annual capacity charges corresponding to Column 6 (ACC2) (Rs. Crs)			Rate of Energy Charges (REC) (Rs./kwh)	11=(Col 9x10)/10		
Anpara 'A'	630	85	81.06	306.96	95.36	292.7170560	24.4647120	334.206635	1.87	62.4966407	86.9613527	
Anpara 'B'	1000	85	85.13	307.88	100.00	307.8800000	25.6566667	284.3937125	1.62	46.0717814	71.7284481	
Anpara 'D'	1000	85	97.36	1088.75	100.00	1088.7500000	90.7291667	673.556830	1.44	96.9921835	187.7213502	
Obra 'B'	1000	80	69.02	421.89	86.28	364.0066920	33.4101723	480.1114375	1.52	72.9769385	106.3871108	
Harduaganj Extn	500	85	96.34	532.38	100.00	532.3800000	44.3650000	0.0000000	2.67	0.0000000	44.3650000	
Parichha Extn	420	85	84.02	333.66	98.85	329.8229100	29.5289100	190.0890425	3.21	61.0185826	90.5474926	
Parichha Extn-II	500	85	80.05	498.79	94.18	469.7604220	22.2127813	112.217915	3.21	36.0219507	58.2347320	
Harduaganj (U#7)	105	65	62.26	78.98	95.78	75.6470440	10.0587612	0.0000000	3.47	0.0000000	10.0587612	
	5155			3569.29		3460.9641240	280.4261702	2074.5755725			375.5780774	656.0042476

Total Amount Payable
(Rs. Six hundred and fifty six crore, forty two thousand, four hundred and seventy six only)
Rs Crs. 656.0042476

From Cumulative Availability Sheet
Column No. 6 : If Col No. 4 is less than Col No.3, then (Col No.4/Col No.3)x100% else 100%
Column No.8 : Computed as per UPERC Generation Regulation 2019, dt 11.09.2019 para 25, for n month=(nxAACCn-(n-1)xACCn-1)/12
Effective Annual Capacity charges on 2% RoE of Harduaganj (U#7) TPS having capacity 105 MW due to deletion of U#5 as per O.M. NO. 592/CE(TO)/Harduaganj dt. 15.07.2017 = 124.11*105/165= 78.98 Cr.
Effective Annual Capacity charges on 2% RoE of 2x500 MW Anpara 'D' TPS as per calculation sheet of Verified Bill of March'18 by UPPCL letter no. 1512/EIE&PC/UPRVUNL/U-4, dt. 03.05.2018 is Rs 1088.75 Crs.

Prepared as per DC/SG received from ABT/SLDC & Bill from TPS

Checked as per DC/SG received from ABT/SLDC & Bill from TPS

Verified as per DC/SG received from ABT/SLDC & Bill from TPS

Saurabh Grover
(Saurabh Grover)
EA (Comml.)

Raj Kumar Verma
(Raj Kumar Verma)
AE (Comml.)

Goga Pandey
(Goga Pandey)
Accountant

Khyati Singh
(Khyati Singh)
Accounts officer

Raj Kumar Verma
(Raj Kumar Verma)
AE (Comml.)

Ritu Singh
(Ritu Singh)
EE(Comml.)

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Commercial Unit



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CIN : U 40101UP1980SGC005065
gm.commercial@uprvunl.org

cecommercialunl@gmail.com

No. 565 /UNL/CE(Comml.)/FCA/FY (2022-23)

Date: 28 , December, 2022

Superintending Engineer
Electricity Import-Export & Payment Circle
U.P.Power Corporation Ltd
11th floor, Shakti Bhawan Extn.
Lucknow-226001.

Subject: Provisional Bill of FCA/Energy Charges of various TPS of UPRVUNL for November -2022.

The Provisional Bill of Fuel Cost Adjustment (FCA)/Energy Charges for variation in fuel data certified by Cost Accountant of various Thermal Power Stations of U.P.Rajya Vidyut Utpadan Nigam Ltd against electricity supplied to U.P. Power Corporation Ltd. during the month **November-2022**, is being enclosed herewith for payment:-

(1) FCA Bill No.:-UNL/FCA/2022-11/02, dt. 28.12.2022 **Rs 214.1388665 Crs**

(Rs Two hundred and fourteen crore, thirteen lacs, eighty eight thousand, six hundred and sixty five only)

It is, therefore, requested that the payment of this Bill in accordance with UPERC (Terms & Conditions of Generation Tariff) Regulation-2019, dt. 11.09.2019 and Power Purchase Agreements signed between UPRVUNL and UPPCL may kindly be ensured.

Last fuel data received on dt. 28.12.2022 of Harduaganj Thermal Power Project.

Encl.: As above.

(Ashok Kumar Seth)

Chief Engineer (Commercial)

No. 565 /UNL/CE(Comm.)/FCA/FY (2022-23)

Date:28 , December, 2022

Copy forwarded to the following for their kind information :-

1. PS to Managing Director, UPRVUNL, 7th floor, Shakti Bhawan, Lucknow.
2. Director (Project & Comml.), UPRVUNL, 8th floor, Shakti Bhawan Extn, Lucknow
3. Director (Technical), UPRVUNL, 8th floor, Shakti Bhawan Extn, Lucknow.
4. Director (Finance), UPRVUNL, 8th floor, Shakti Bhawan Extn, Lucknow.

Copy forwarded to the following for their kind information & necessary action :-

1. Chief Engineer (TO/Fuel), UPRVUNL, 14th floor, Shakti Bhawan Extn, Lucknow.
2. Chief Engineer (L-1), UPRVUNL, Anpara, Obra, Parichha, Harduaganj Projects.
3. Dy General Manager (Accounts), UPRVUNL, 8th floor, Shakti Bhawan Extn, Lucknow.
4. Dy CAO (Finance), UPRVUNL, 8th floor, Shakti Bhawan Extn, Lucknow.
5. Chief Manager (F&A) CMU, UPRVUNL, 7th floor, Shakti Bhawan Extn, Lucknow.
6. Accounts Officer (Accounts), UPRVUNL, 9th floor, Shakti Bhawan Extn, Lucknow.

→ Summary file

(Ashok Kumar Seth)

Chief Engineer (Commercial)

U.P. Rajya Vidyut Utpadan Nigam Ltd.
14th Floor, Shakti Bhawan Extn.,
Lucknow - 226001

GST Reg. No.- 09AAAACU4749DZ29

November, 2022
U.P. Power Corporation Ltd.
Shakti Bhawan, Extn.
14, Ashok Marg, Lucknow
09AAAACU5088M4ZM

Bill of supply of Power for Month:
Name of Customer :-

UNL/FCA/2022-11/02
Bill No.- 28-12-2022
30 Days from the billing date
(i) UPERC Tariff Order Dt. 29.04.2016 & 18.01.2017
(ii) UPERC Gen Regn., 2019 Dt. 11.09.2019
(iii) Fuel data from Plants (certified by Cost Accountant)
(iv) MYT Additional submission-4 dated 02.06.2022 in UPERC related to 1x660 MW Harduaganj Ext-II.
(v) PPA for various Thermal Power Stations.

Provisional Fuel Cost Adjustment/Energy Charges Bill due to variation in Cost & GCV of fuel of various TPS of UPRVUNL raised to UPPCL as per UPERC Gen. Tariff Regu., 2019 Dt. 11.09.2019

S.No.	Parameters	Symbol	Unit	Anpara A	Anpara B	Anpara D	Obra B	Harduaganj Extn.	Harduaganj Extn.-II	Pari Extn. U#3&4	Pari Extn. Stage-2 U#5&6	Harduaganj U#7	Total
A	Energy Exported & Billed (ESO)	ESO	MU	334.2066350	284.3937125	673.5568300	480.1114375	0.0000000	295.388375	190.0890425	112.2179150	0.0000000	2369.9639475
B	Normative Operating Parameters	H	Kcal/Kwh	2430	2390	2374	2755	2430	2081	2430	2430	2625	
C	Gross Station Heat Rate (GSHR)	(Q ₂) _m	ml/Kwh	0.50	0.50	0.50	2.10	0.50	0.5	0.50	0.50	2.50	
D	Sp. Oil Cons.	AUXn	%	8.50	6.55	6.25	9.70	9.00	6.25	9.00	9.00	9.50	
E	Auxiliary Energy Consumption												
F	Fuel Data for the month												
G	Price of Primary fuel (Coal)	Pp	Rs. Kg	2.40296	2.43737	2.42672	2.68704	5.15441	5.07919	4.78159	4.78159	4.36086	
H	Price of Secondary fuel (Oil)	Px	Rs. ml	0.09991350	0.09991350	0.09991350	0.09604925	0.07985751	0.08237301	0.07278476	0.07278476	0.07985751	
I	Gross Calorific Value of Primary fuel (Coal)	Cp	Kcal/Kg	3149.00	3666.00	3632.00	3441.00	3435.00	3533.00	3259.09	3259.09	3077.00	
J	Gross Calorific Value of Secondary fuel (oil)	Cs	Kcal/Lit	8900.82	8900.82	8900.82	9111.00	10570.00	10570.00	9404.57	9404.57	10570.00	
K	Formula of ECR	ECR	Rs /Kwh	$100[Pp*(H-(Q_2)m^*Cs/1000)/Cp+Ps*(Q_2)m]/(100-AUXn)$	1.7910	1.7825	2.6492	3.3055	3.3055	3.3055	4.0549	4.0549	
L	Energy Charge Rate for the month (ECR)	ECR1	Rs /Kwh	2.1336	1.7910	1.7825	2.6492	3.3055	3.3055	3.3055	4.0549	4.0549	
M	Already claimed energy charge rate (ECR1)	ECR2	Rs /Kwh	1.8700	1.6200	1.4400	1.5200	2.6700	2.6700	3.2100	3.2100	3.4700	
N	Diff in ECR (J-K)			0.2636	0.1710	0.3425	1.1292	0.6355	0.6355	0.8449	0.8449	0.5849	
O	Amt. of Energy Charge due to variation in fuel data (AXL)/10			8.8096869	4.8631325	23.0693214	54.2141835	0.0000000	97.6406274	16.0606232	9.4812916	0.0000000	214.1388665

Total Amount Payable (Cr)

(Rs Two hundred and fourteen crore, thirteen lacs, eighty eight thousand, six hundred and sixty five only)

214.1388665

Normative Parameters have been taken as per UPERC (Terms & Conditions of Generation Tariff) Regulations-2019, dt. 11.09.2019 for various Thermal Power Stations of UPRVUNL.

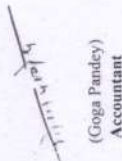
Prepared as per ESO/SG & Bills /Fuel data received from TPS

Checked as per ESO/SG & Bills /Fuel data received from TPS

Verified as per ESO/SG & Bills /Fuel data received from TPS


EA (Comml.)


AE (Comml.)


Accountant


Accounts Officer


AE (Comml.)


EE (Comml.)