

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. 06 /UNL/CE(Comml.)/Energy Bill/FY (2023-24)

Date: 03 , January- 2024

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 December-2023.

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 **December 2023** as detailed below, is being enclosed (ERP Generated) for payment:-

Main Bill No.:- UNL/Energy Bill(SG/ESO)/2023-12/01, dt. 03.01.2024

794.8197185 Crs

(Rs Seven hundred and ninety four crore, eighty one lacs, ninety seven thousand, one hundred and eighty five only)

It is, therefore, requested that the payment of this Bill in accordance with UPERC Tariff Order dt. 29.04.2016, 24.05.2023, 29.05.2023 & 16.06.2023, 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 Accounts from SLDC/ABT received on dt. 02.01.2024.

Encl.: As above.

Hari Shyam
03.01.2024
o/c (Hari Shyam)
S E (Commercial)

No. 06 /UNL/CE(Comml.)/Energy Bill/FY (2023-24)

Date: 03, January- 2024

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 by e-mail.
3. Director (Technical), UPRVUNL, 8th floor, Shakti Bhawan Extn, Lucknow by e-mail.
4. Director (Finance), UPRVUNL, 8th floor, Shakti Bhawan Extn, Lucknow by e-mail.

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

1. CE (Commercial/TO), UPRVUNL, 14th floor, Shakti Bhawan Extn, Lucknow by e-mail.
2. Chief General Manager, UPRVUNL, Anpara, Ora, Parichha, Harduaganj TPS by e-mail.
3. Dy General Manager (F&A), UPRVUNL, 7th floor, Shakti Bhawan Extn, Lucknow.
4. Chief Manager (F&A) CMU, UPRVUNL, 7th floor, Shakti Bhawan Extn, Lucknow.
5. Accounts Officer (Accounts), UPRVUNL, 9th floor, Shakti Bhawan Extn, Lucknow.
6. Summary/office copy

Manoj Kumar
AE

Hari Shyam
03.01.24

Hari Shyam
03.01.2024
o/c (Hari Shyam)
S E (Commercial)



U.P. Rajya Vidyut Utpadan Nigam Ltd.
14th Floor, Shakti Bhawan Extn., Lucknow
GST Reg. No.: 09AAACU4749D2Z9

Bill of supply of Power of the month : December-2023
Name of Customer :- U.P. Power Corporation Ltd.
 Shakti Bhawan, Extn.
 14, Ashok Marg, Lucknow
 09AAACU5088M4ZM

Main Bill No : UNL/Energy Bill (SG/ESO)/2023-12/01
Bill Date : 04.01.2024
Due Date : 30 Days from the billing date
Reference : (i) UPERC Tariff Order Dt.29.04.2016, 24.05.23, 29.05.23 & 16.06.23
(ii) UPERC Gen Reg.'19 Dt. 11.09.2019
(iii) PPA for various Thermal Power Stations.

UPRVUNL Bank Account Number : 353305010200149
Name of Branch : Union Bank of India
Bank Branch : Large Corporate, Gomti Nagar, Lucknow
IFSC Code : UBIN0579211

Provisional Main Energy Bill of UPRVUNL to UPPCL for , Anpara-ATPS, Anpara-BTPS, Obra-BTPS, Parichha-BTPS, Harduaganj-CTPS, Parichha-CTPS, Anpara-DTPS, Harduaganj-DTPS and Harduaganj-ETPS.

Projects	Approved Plant Capacity as per UPERC T.O (MW)	No.of Months w.e.f April 2023	Cum.plant Availability		Capacity charges(Fixed Charges)			Energy Charge(E.C)			Total Amount	
			Target by UPERC	Actual Till Current Month w.e.f April 2023	Total Capacity Charges Approved by UPERC (Rs.Crs)	Percentage to be Recovered	Amount of Annual capacity charges corresponding to column 6 (Rs.Crs)	Amount of Capacity Charges payable for month (Rs.Crs)	Scheduled Generation by SLDC / Energy sent out by Plants (MU)	Energy Charge Rate (ECR) (Rs/Kwh)		Total Energy Charges (Rs.Crs)
	1	2	3	4#	5	6##	7=(5X6)/100	8###	9	10	11= (9x10)/10	12=(8+11)
Anpara-ATPS	630	9	85	66.84	282.79	78.64	222.3860560	24.8478147	355.9201400	1.83	65.1333856	89.9812003
Anpara-BTPS	1000	9	85	76.07	324.35	89.49	290.2608150	15.1714713	319.2720275	1.70	54.2762447	69.4477160
Anpara-DTPS	1000	9	85	85.39	1088.75	100	1088.7500000	90.7291667	284.6581075	1.44	40.9907675	131.7199342
Harduaganj-CTPS	110	9	65	68.82	101.24	100	101.2400000	8.4366667	1.8992500	3.83	0.7274128	9.1640795
Harduaganj-DTPS	500	9	85	90.22	483.57	100	483.5700000	40.2975000	219.5236800	3.45	75.7356696	116.0331696
Harduaganj-ETPS	660	9	85	77.58	895	91.27	816.8665000	33.9428750	137.9008950	3.42	47.1621061	81.1049811
Obra-BTPS	1000	9	80	59.16	597.42	73.95	441.7920900	38.8870635	349.7394175	2.49	87.0851150	125.9721785
Parichha-BTPS	420	9	85	88.85	316.57	100	316.5700000	26.3808333	203.3208025	3.51	71.3656017	97.7464350
Parichha-CTPS	500	9	85	82.81	452.96	97.42	441.2736320	28.9818907	127.2596400	3.51	44.6681336	73.6500243
	5820				4542.65		4202.7090930	307.6752819	1999.4939600		487.1444366	794.8197185

Total Amount Payble

Rs Crs. 794.8197185

(RUPEES SEVEN HUNDRED NINETY FOUR CRORE EIGHTY ONE LAKH NINETY SEVEN THOUSAND ONE HUNDRED EIGHTY FIVE ONLY)

This is SAP Generated Document. so, physical signature is not mandatory.

from cumulative availability sheet

Column No 6=100% if Col.4>=Col.3, else, Col.6=(Col.4/Col.3)*100

Column No 8=(Col.2*Col.7 of this month-Col.2*Col.7of previous month)/12

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.

Effective Annual Capacity charge on 2% RoE as per Principle Secretary (Energy)'s Letter no. 1714/24-1-2017-1714 (B)/2017, dt. 31.07.2017 & as per UPRVUNL BOD decision dt. 09.04.2018 in their 175th meeting (Agenda item 175.2).

Prepared By	Checked By	Checked By	Verified By
A.E. (Comm.)	Accountant	Accounts Officer	E.E. (Comm.)
MANOJ KUMAR - (101385)	GOGA PANDEY - (102160)	RAJENDRA SINGH - (101344)	RITU SINGH - (100729)

Cumulative Availability for FY2023-2024

Month	Days	Cumm. Days N	MW			9.000			6.880			1000			AUXn			6.250			MW			1000			AUXn			9.700		
			Declared Cap.(MU)	Declared Cap.(MW)	Cum.Decl.Cap(MW)	Cum Ava (%)	Declared Cap.(MU)	Declared Cap.(MW)	Cum.Decl.Cap(MW)	Cum Ava (%)	Declared Cap.(MU)	Declared Cap.(MW)	Cum.Decl.Cap(MW)	Cum Ava (%)	Declared Cap.(MU)	Declared Cap.(MW)	Cum.Decl.Cap(MW)	Cum Ava (%)	Declared Cap.(MU)	Declared Cap.(MW)	Cum.Decl.Cap(MW)	Cum Ava (%)	Declared Cap.(MU)	Declared Cap.(MW)	Cum.Decl.Cap(MW)	Cum Ava (%)	Declared Cap.(MU)	Declared Cap.(MW)	Cum.Decl.Cap(MW)	Cum Ava (%)		
APR-2023	30	30	202.3707500	8432	8432	48.76	378.7870000	15783	15783	56.30	600.4357500	25018	25018	88.95	337.9797500	14082	14082	51.98														
MAY-2023	31	61	238.1550000	9923	18355	52.20	640.3977500	26683	42466	74.50	661.0361250	27543	52561	91.91	324.7272500	13530	27612	50.13														
JUN-2023	30	91	214.6842500	8945	27300	52.33	624.1502500	26006	68472	80.80	614.8640000	25619	78180	91.64	313.2795000	13053	40665	49.49														
JUL-2023	31	122	318.0442500	13252	40552	57.98	584.0397500	24335	92807	81.69	640.9333750	26706	104886	91.70	393.5277500	16397	57062	51.80														
AUG-2023	31	153	357.9902500	14916	55468	63.24	555.1477500	23131	115938	81.38	642.4028750	26767	131653	91.78	443.3192500	18472	75534	54.67														
SEP-2023	30	183	333.7942500	13908	69376	66.13	650.5202500	27105	143043	83.94	609.5652500	25399	157052	91.54	422.1277500	17589	93123	56.35														
OCT-2023	31	214	197.2145000	8217	77593	63.25	595.1965000	24800	167843	84.23	649.8237500	27076	184128	91.78	440.4102500	18350	111473	57.69														
NOV-2023	30	244	286.5060000	11938	89531	64.00	313.1647500	13049	180892	79.61	563.1447500	23464	207592	90.75	431.0076250	17959	129432	58.74														
DEC-2023	31	275	380.4125000	15851	106382	66.84	333.7410000	13906	194798	76.07	301.3627500	12557	220149	85.39	419.2797500	17470	146902	59.16														
JAN-2024	31	306		0				0				0			0																	
FEB-2024	29	335		0				0				0			0																	
MAR-2024	31	366		0				0				0			0																	
Total			2529.1717500				4675.1450000					5283.5686250			3525.6588750																	

Month	Days	Cumm. Days N	MW			9.500			110			AUXn			9.500			MW			500			AUXn			9.000			660			AUXn			6.250		
			Declared Cap.(MU)	Declared Cap.(MW)	Cum.Decl.Cap(MW)	Cum Ava (%)	Declared Cap.(MU)	Declared Cap.(MW)	Cum.Decl.Cap(MW)	Cum Ava (%)	Declared Cap.(MU)	Declared Cap.(MW)	Cum.Decl.Cap(MW)	Cum Ava (%)	Declared Cap.(MU)	Declared Cap.(MW)	Cum.Decl.Cap(MW)	Cum Ava (%)	Declared Cap.(MU)	Declared Cap.(MW)	Cum.Decl.Cap(MW)	Cum Ava (%)	Declared Cap.(MU)	Declared Cap.(MW)	Cum.Decl.Cap(MW)	Cum Ava (%)	Declared Cap.(MU)	Declared Cap.(MW)	Cum.Decl.Cap(MW)	Cum Ava (%)	Declared Cap.(MU)	Declared Cap.(MW)	Cum.Decl.Cap(MW)	Cum Ava (%)				
APR-2023	30	30		2817	2817	94.32	247.6728750	10320	10320	75.60	381.1918750	15883	15883	85.56																								
MAY-2023	31	61		2885	5702	93.90	328.5058525	13688	24008	86.50	403.7987500	16825	32708	86.66																								
JUN-2023	30	91		2787	8489	93.71	316.3737500	13182	37190	89.82	357.6266250	14901	47609	84.55																								
JUL-2023	31	122		2589	11078	91.21	327.0203750	13626	50816	91.54	424.9192825	17705	65314	86.52																								
AUG-2023	31	153		1760	12838	84.29	314.8105000	13117	63933	91.84	401.2724000	16720	82034	86.65																								
SEP-2023	30	183		1733	14571	79.98	280.9935550	11708	75641	90.84	380.2082975	15842	97876	86.44																								
OCT-2023	31	214		0	14571	68.40	246.5650600	10274	85915	88.24	297.1586175	12382	110258	83.27																								
NOV-2023	30	244		2802	17373	71.52	315.2731250	13136	99051	89.22	341.0634500	14211	124469	82.44																								
DEC-2023	31	275		1466	18839	68.82	331.9524450	13831	112882	90.22	180.9845900	7541	132010	77.58																								
JAN-2024	31	306		0				0				0																										
FEB-2024	29	335		0				0				0																										
MAR-2024	31	366		0				0				0																										
Total							2709.1675375					3168.2238875																										

Month	Days	Cumm. Days N	MW		420 (2 x 210 MW) Parichha.-BTPS		AUXn		9,000		MW		500 (2 x 250 MW) Parichha-CTPS		AUXn		9,000	
			Declared Cap.(MU)	Declared Cap.(MW)	Cum.Decl.Cap(MW)	Cum Ava (%)	Declared Cap.(MU)	Declared Cap.(MW)	Declared Cap.(MU)	Declared Cap.(MW)	Cum.Decl.Cap(MW)	Cum Ava (%)						
APR-2023	30	30	269.6691000	11236	11236	97.99	321.8877500	13412	13412	13412	98.26							
MAY-2023	31	61	265.7493750	11073	22309	95.69	333.9387500	13914	27326	27326	98.45							
JUN-2023	30	91	263.8503050	10994	33303	95.75	319.9051250	13329	40655	40655	98.19							
JUL-2023	31	122	267.3336550	11139	44442	95.31	326.9928350	13625	54280	54280	97.78							
AUG-2023	31	153	234.5854800	9774	54216	92.71	293.0156650	12209	66489	66489	95.51							
SEP-2023	30	183	218.8018750	9117	63333	90.55	298.7828750	12449	78938	78938	94.80							
OCT-2023	31	214	228.1851250	9508	72841	89.06	288.4816350	12020	90958	90958	93.41							
NOV-2023	30	244	232.2200000	9676	82517	88.48	139.0267250	5793	96751	96751	87.15							
DEC-2023	31	275	260.8028750	10867	93384	88.85	164.7300250	6864	103615	103615	82.81							
JAN-2024	31	306	0					0										
FEB-2024	29	335	0					0										
MAR-2024	31	366	0					0										
Total			2241.1977900				2486.7613850											

Cumulative Availability (%)= $\frac{N}{\sum_{i=1}^N} \times DCi / (N \times (100 - AUXn))\%$

DCi= Average declared capacity for the ith day of the period in MW.
N= Number of days during the period, and
AUXn= Normative Auxiliary Energy Consumption as a percentage of gross generation.

Month: December 2023 DC up to Month (in MU): 27071.0295625

SG up to Month (in MU): 23282.2010275

Availability have been calculated as per new Auxiliary Consumption norms w.e.f. 01.04.2019 for MYT 2019-24 specified by UPERC (Terms & conditions of Generation Tariff) Regulation-2019, dt. 11.09.2019.

Checked By	Verified By
A.E. (Comml.)	E.E. (Comml.)
MANOJ KUMAR	RITU SINGH
101385	100729

Note: This is System Generated sheet. So, No physical signature is required.

Office of Chief Engineer
Commercial Unit



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

cecommercialunl@gmail.com

No. /UNL/CE(Comml.)/FCA/FY (2023-24)

Date: 31, January, 2024

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

Subject: Provisional Bill of FCA of various TPS of UPRVUNL for December -2023.

The Provisional Bill of Fuel Cost Adjustment (FCA) 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 **December-2023**, is being enclosed (ERP Generated) herewith for payment:-

(1) FCA Bill No.:- UNL/FCA/2023-12/02, dt. 31.01.2024

73.1824661 Crs

(Rs Seventy three crore, eighteen lacs, twenty four thousand, six hundred and sixty one 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. 30.01.2024 of Parichha Thermal Power Project.

Encl.: As above

(Ritu Singh)
E.E (Commercial)

No. 57 /UNL/CE(Comm.)/FCA/FY (2023-24)

Date: 31, January, 2024

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 by e-mail.
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 (Commercial/Fuel/TO), UPRVUNL, 14th floor, Shakti Bhawan Extn, Lucknow by e-mail.
2. Dy General Manager (F&A), UPRVUNL, 7th floor, Shakti Bhawan Extn, Lucknow.
3. Chief Manager (F&A) CMU, UPRVUNL, 7th floor, Shakti Bhawan Extn, Lucknow.
4. Accounts Officer (Accounts), UPRVUNL, 9th floor, Shakti Bhawan Extn, Lucknow.
5. Summary/office copy

(Ritu Singh)
E.E (Commercial)



U.P. Rajya Vidyut Utpadan Nigam Ltd.
14th Floor, Shakti Bhawan Extn., Lucknow - 226001
GST Reg. No.: 09AAAACU4749D2Z9

Bill of supply of Power for month : December-2023

Name of Customer :- U.P. Power Corporation Ltd.
Shakti Bhawan, Extn.
14, Ashok Marg, Lucknow
09AAAACU5088M4ZM

GST Reg. No.:

UPRVNL Bank Account Number : 353305010200149
Name of Bank : Union Bank of India
Bank Branch : Large Corporate Branch, Gomti Nagar, Lucknow
IFSC Code : UBIN0579211

FCA Bill No. : UNL/FCA/2023-12/02

Bill Date : 31.01.2024
Due Date : 30 Days from the billing date
Reference : (i) UPERC Tariff Order Dt.29.04.2016, 24.05.23, 29.05.23, 16.06.23
(ii) UPERC Gen Regu.,2019 Dt. 11.09.2019
(iii) Fuel data from Plants (certified by Cost Accountant)
(iv) PPA for various Thermal Power Stations.

Provisional Fuel Cost Adjustment Bill due to variation in Cost & GCV of fuel for various TPS of UPRVNL for the month of December-2023 raised to UPPL as per UPERC Gen.Tariff Regu.,2019 Dt.11.09.2019

Sr No	Parameter	Symbol	Unit	ANPARA ATPS	ANPARA BTPS	ANPARA DTPS	OBRA BTPS	HARDUAGANJ CTPS	HARDUAGANJ DTPS	HARDUAGANJ ETPS	PARICHHA BTPS	PARICHHA CTPS	TOTAL
A	ENERGY EXPORTED & BILLED (ESO)	ESO	MU	U#1,2&3 355.9201400	U#4&5 319.2899800	U#6&7 284.6581075	U# 9 To 13 349.7394175	U#7 1.8992500	U#8&9 219.5236800	U#10 137.9008950	U#3 & 4 203.3208025	U#5&6 127.2596400	1999.511912
Normative Operating Parameters													
B	GROSS STATION HEAT RATE (GSHR)	H	KCAL/KW	002430 0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
C	SP OIL CONS.	OSJN	ML/KWH	9.00	6.88	6.25	9.70	9.50	9.00	6.25	9.00	9.00	9.00
D	AUXILIARY ENERGY CONSUMPTION	AUXN	%										
Fuel Data for the month													
E	PRICE OF PRIMARY FUEL (COAL)	PP	RS /KG	2.67141	2.75454	2.61559	2.75391	4.83891	4.92536	5.15422	4.17692	4.17692	4.17692
F	PRICE OF SECONDARY FUEL (OIL)	PS	RS /ML	0.07939051	0.07939051	0.07939051	0.08792695	0.06735864	0.06734225	0.06817800	0.06973097	0.06973097	0.06973097
G	GROSS CALORIFIC VALUE OF PRIMARY FUEL (COAL)	CP	KCAL/KG	3148.00000	3664.00000	3332.00000	3383.00000	2993.00000	3208.00000	3108.00000	3445.09000	3445.09000	3445.09000
H	GCV OF PRIMARY FUEL(COAL) LESS 85 KCAL/KG ON ACCOUNT OF VARIATION DURING STORAGE (CPI = CP-85)	CP1	KCAL/KG	3063.00000	3579.00000	3247.00000	3298.00000	2998.00000	3123.00000	3023.00000	3360.09000	3360.09000	3360.09000
I	GROSS CALORIFIC VALUE OF SECONDARY FUEL(OIL)	CS	KCAL/LI	9168.15000	9168.15000	9168.15000	9335.00000	10570.00000	10570.00000	10570.00000	9105.08000	9105.08000	9105.08000
Formula of ECR ECR = 100*(Pp*(H - (Os)n - Cs/1000)/(Cp1+Ps - (Os)n) / (100 - Auxn)													
J	ENERGY CHARGE RATE FOR THE MONTH(ECR)	ECR	RS /KWH	2.3682	2.0142	2.0782	2.7223	4.9640	4.2393	3.8114	3.3516	3.3516	3.3516
K	ALREADY CLAIMED RATE OF ENERGY CHARGEAS (ECR1)	ECR1	RS /KWH	1.8300	1.7000	1.4400	2.4900	3.8300	3.4500	3.4200	3.5100	3.5100	3.5100
L	DIFF IN REC (J-K)	ECR2	RS /KWH	0.5382	0.3142	0.6382	0.2323	1.1340	0.7893	0.3914	0.1584	0.1584	0.1584
M	AMT OF ENERGY CHARGE DUE TO VARIATION IN FUEL DATA (AXL)/10	RS CRS	RS CRS	19.1556219	10.0320912	18.1668804	8.1244467	0.2153750	17.3270041	5.3974410	3.2206015	2.0157927	73.1824661
TOTAL FCA BILLED AMOUNT (CR)													

Total Amount Payable (Cr) : RUPEES SEVENTY THREE CRORE EIGHTEEN LAKH TWENTY FOUR THOUSAND SIX HUNDRED SIXTY ONE ONLY

Prepared By A.E. (Comm.)	Checked By Accounts Officer	Verified By E.E. (Comm.)
MANOJ KUMAR - (101385)	GOGA PANDEY - (102160)	RAJENDRA SINGH - (101344)
		RITU SINGH - (100729)

Note: This is ERP generated bill. Physical signature is not required.