

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. 13 /UNL/CE(Comml.)/Energy Bill/FY (2020-21)

Date: 12, January, 2021

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-2020.

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-2020** as detailed below, is being enclosed for payment:-

Main Bill No.-UNL/Energy Bill(SG/ESO)/2020-12/01, dt. 12.01.2021 **Rs. 596.0682249 Crs**
(Rs. Five hundred and ninety six crore, six lacs, eighty two thousand, two hundred and forty nine only)

It is therefore requested that the payment of this Bill in accordance with Operational parameters of UPERC Generation Regulation-2019 dt. 11.09.2019 & Fixed Cost as per Tariff Order dt. 29.04.2016 & 18.01.2017 and PPA signed between UPRVUNL and UPPCL, may kindly be ensured.

Last Energy Account from SLDC/ABT received on dt. 11.01.2021 for Anpara Project.

(Avikshit Singh)
Chief Engineer (Commercial)

No. 13 /UNL/CE(Comml.)/Energy Bill/FY (2020-21)

Date: 12, January, 2021

Copy forwarded to the following for their kind information :-

1. PS to Managing Director, UPRVUNL, 7th floor, Shakti Bhawan, Lucknow.
2. Senior Advisor to Managing Director, 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 Ext, Lucknow.

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

1. CE (TO/Fuel), UPRVUNL, 14th floor, Shakti Bhawan Extn, Lucknow.
2. Chief Engineer (Project Coordinator), Anpara/Obra/Harduaganj/Parichha TPS.
3. Dy CAO (Accounts), UPRVUNL, 9th floor, Shakti Bhawan Extn, Lucknow.
4. Dy CAO (Finance), UPRVUNL, 8th floor, Shakti Bhawan Extn, Lucknow.
5. Chief Manager (CMU), UPRVUNL, 7th floor, Shakti Bhawan Extn, Lucknow.
6. Dy CAO (CFA&BO), Anpara/Obra/Harduaganj/Parichha TPS.

✓ → Summary file

(Avikshit Singh)
Chief Engineer (Commercial)

U.P. Rajya Vidyut Utpadan Nigam Ltd.
14th Floor, Shakti Bhawan Extn., Lucknow
GST Reg. No. 09AAAACU4749DZ29

Dec-20
U.P. Power Corporation Ltd.
Shakti Bhawan, Extn.
14, Ashok Marg, Lucknow
09AAAACU3088V4ZNY

Main Bill :- UNL/Energy Bill (SG/ESO)/2020-12/01
Bill Date :- 12-01-2021
30 Days from the billing date
Due Date :- (8) UPERC Tariff Order Dt. 29.04.2016 & 18.01.2017
Reference :- (8) UPERC Gen Reg. 19 Dt. 11.09.2019
(iii) PPA for various Thermal Power Stations.

Provisional Main Energy Bill of UPRVUNL to UPPCL for Anpara A, Anpara B, Anpara D, Obra B, Parichha Extn, Parichha Extn Stage-2, Harduaganj Extn on Schedule Generation (SG).

Projects	Approved Plant capacity as per UPERC T.O.	No. of Months w.e.f April 2020	Cum. Plant Availability		Total capacity charges approved by UPERC	Percentage to be measured	Capacity charges (Fixed Charges)		Amount of annual capacity charges payable for the month	Annual Cumulative Capacity Charges corresponding to last month (ACC-1)	Scheduled Generation by SLD/ Energy Sent Out by Plants (MWh)	Energy Charge Rate (ECR)	Total Energy Charges	Total Amount Capacity Charges Energy Charges
			Target (%)	Actual bill current month w.e.f April 2020 (%)			Amount of annual capacity charges corresponding to Column 8 (ACC-2)	(Rs. Crs) 3-(Col. 5)& 7						
Anpara 'A'	630	9	85	65.84	306.96	78.64	241,393,344.00	17,02,60,480	246,02,84,400	197,22,25,40	1.87	36,88,06,150	53,90,66,630	
Anpara 'B'	1000	9	85	88.02	307,88	100.00	307,88,00,000	25,65,66,667	307,88,00,000	578,47,71,35	1.62	93,71,32,959	119,36,99,626	
Anpara 'D'	1000	9	85	48.45	1,088.75	57.00	620,58,75,000	53,31,24,583	618,19,22,500	341,289,55	1.44	49,14,56,383	102,45,80,966	
Obra 'B'	1000	9	80	61.02	421.89	76.28	321,81,76,920	32,07,77,030	313,92,83,490	376,21,25,30	1.52	57,18,43,046	89,26,20,076	
Harduaganj Extn	500	9	85	90.90	532.38	100.00	532,38,00,000	44,36,50,000	532,38,00,000	86,13,08,45	2.67	23,08,02,555	67,41,52,555	
Parichha Extn.	420	9	85	89.99	333.66	100.00	333,66,00,000	27,80,50,000	333,66,00,000	58,78,34,55	3.21	18,86,94,826	46,67,44,826	
Parl. Extn. Stage2	500	9	85	94.97	498.79	100.00	498,79,00,000	41,56,83,333	498,79,00,000	233,66,7,03	3.21	75,00,54,067	116,57,12,480	
Harduaganj (L#7)	105	9	65	18.00	78.98	27.69	21,86,95,620	-0,03,61,992	24,65,75,560	0.00,00,00	3.47	0,00,00,000	-0,03,61,992	
	5155				3569.29		2878,37,80,980	241,77,25,102	2875,51,69,980	1871,97,70,430		353,84,89,986	595,62,15,088	
TCS 0.075% as per New Clause no. 206 C (1H) of Finance Bill 2020														
Total Amount Payable														
Rs Crs. 596,06,82,249														

(Rs. Five hundred and ninety six crore, six lacs, eighty two thousand, two hundred and forty nine only)

From Cumulative Availability Sheet

Column No. 6 - If Col No. 4 is less than Col No. 3, then (Col No. 4 - Col No. 3) * 100% else 100%

Column No. 8 - Computed as per UPERC Generation Regulation 2019, dt. 11.09.2019 para 25, for a month - (ACC-1) / (S-LD) * 100

Effective Annual Capacity charges on 2% RoE of Harduaganj (L#7) TPS having capacity 105 MW due to deletion of 105 as per G.M. NO. 592/C/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/ELE/PC/UPR/UNL/U-4, dt. 03.05.2018 is Rs. 1,088.75 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


(Sharabh Grover)
AE (Comm.)


(Gyan Pandey)
Accountant


(Kalyani Singh)
Accounts Officer


(Rajeev Kumar Jindani)
AE (Comm.)


(Rajeev Kumar Jindani)
EE (Comm.)

Cumulative Availability for FY 2020-21

Month	Days Comm. N	MW	AUXA 6.5		AUXA 6.55		MW		AUXA 6.25		MW		AUXA 6.25		MW		AUXA 9.7		
			Declared Cap.(MW)	Cum Dec. Cap.(MW)	Declared Cap.(MW)	Cum Dec. Cap.(MW)	Declared Cap.(MW)	Cum Dec. Cap.(MW)	Declared Cap.(MW)	Cum Dec. Cap.(MW)	Declared Cap.(MW)	Cum Dec. Cap.(MW)	Declared Cap.(MW)	Cum Dec. Cap.(MW)	Declared Cap.(MW)	Cum Dec. Cap.(MW)	Declared Cap.(MW)	Cum Dec. Cap.(MW)	Declared Cap.(MW)
Apr-20	30	307,086,000	12795	12795	73.99	632,033,150	26335	93.94	301,654,625	12569	44.69	432,018,750	18001	66.45					
May-20	31	315,625,750	13151	23946	73.79	496,153,225	20673	82.46	332,757,250	13864	26433	351,065,750	14628	59.24					
Jun-20	30	318,257,000	13261	39207	74.74	608,867,750	25269	72.37	356,778,750	14032	40465	342,416,500	14267	57.07					
Jul-20	31	320,233,250	13760	52967	76.32	590,581,800	24608	85.07	348,085,338	14504	50969	315,055,750	13127	60.23					
Aug-20	31	354,728,250	10614	63581	72.09	507,449,000	23644	84.37	348,181,125	14508	69477	48.44	11,612,000	17151	77.74				
Sep-20	30	213,237,500	8885	72466	68.69	647,060,750	26961	86.30	357,447,875	14060	83537	48.69	417,855,500	17411	94.58				
Oct-20	31	268,741,250	11198	83664	67.82	644,601,240	26858	87.23	344,575,513	14357	97894	48.79	439,277,000	18303	112.88				
Nov-20	30	291,882,500	12162	95826	68.13	608,111,000	25338	87.62	300,264,938	12511	110405	48.26	438,419,250	18267	131.55				
Dec-20	31	243,042,250	10127	105953	66.84	633,793,750	26408	88.02	348,443,500	14518	124923	48.45	489,167,250	20382	151.53				
Jan-21	31	306																	
Feb-21	28	334																	
Mar-21	31	365																	
Total		2542,833,750				5428,651,665		2998,167939				3636,887750							

Month	Days Comm. N	MW	AUXA 9.5		AUXA 9.0		MW		AUXA 9.0		MW		AUXA 9.0		MW		AUXA 9.0	
			Declared Cap.(MW)	Cum Dec. Cap.(MW)	Declared Cap.(MW)	Cum Dec. Cap.(MW)	Declared Cap.(MW)	Cum Dec. Cap.(MW)	Declared Cap.(MW)	Cum Dec. Cap.(MW)	Declared Cap.(MW)	Cum Dec. Cap.(MW)	Declared Cap.(MW)	Cum Dec. Cap.(MW)	Declared Cap.(MW)	Cum Dec. Cap.(MW)	Declared Cap.(MW)	Cum Dec. Cap.(MW)
Apr-20	30	68,414,400	2851	100.01	205,618,750	12317	131.77	90.23	137,589,000	5733	5733	323,858,125	13494	98.86				
May-20	31	44,493,115	1854	4705	81.17	212,686,375	8862	76.31	211,889,050	8829	14562	320,993,750	13375	26.85				
Jun-20	30	0,000,000	0	4705	54.41	391,757,500	33752	81.52	271,299,400	11304	25866	74.37	303,987,500	17666	39.55			
Jul-20	31	0,000,000	0	4705	40.58	280,937,500	17066	81.89	265,895,625	11079	36945	79.23	284,027,875	11834	51.36			
Aug-20	31	0,000,000	0	4705	32.36	326,952,250	13623	84.87	280,619,100	11692	48637	83.17	333,948,125	13915	63.84			
Sep-20	30	0,000,000	0	4705	27.06	315,173,250	13132	86.73	272,339,150	11347	59884	85.76	298,843,125	12452	77.36			
Oct-20	31	0,000,000	0	4705	23.14	333,476,250	13895	88.43	272,740,300	11364	71348	87.23	322,317,000	13430	91.66			
Nov-20	30	0,000,000	0	4705	20.29	327,600,000	13650	89.86	275,184,000	11466	82814	88.80	327,536,250	13647	104.83			
Dec-20	31	0,000,000	0	4705	18.00	335,631,250	13985	90.90	282,603,900	11775	94589	89.99	336,493,750	14021	118.84			
Jan-21	31	306																
Feb-21	28	334																
Mar-21	31	365																
Total		112,907,515				2729,836,125		2270,162875				2851,995500						

Cumulative Availability (%) = $\frac{10000 \times DC}{N \times (C + 100 - AUXN)} \%$

DC = Average declared capacity for the 'N' 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.

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

Signature
 EA (Comm.)

Signature
 AE (Comm.)

Signature
 EE (Comm.)

Office of Chief Engineer
Commercial Unit

cecommercialunl@gmail.com



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

No. 15 /UNL/CE(Comml.)/FCA/FY (2020-21)

Date: 12, January, 2021

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

Subject: Supplementary Bill of FCA of Harduaganj Extn. TPS of UPRVUNL for December'2020.

The Supplementary bill of Fuel Cost Adjustment (FCA) for variation in fuel data certified by Cost Accountants of Harduaganj Ext Thermal Power Stations of U.P. Rajya Vidyut Utpadan Nigam Ltd against electricity supplied to U.P. Power Corporation Ltd. during the month **December -2020**, is being enclosed herewith for payment :-

(1) FCA Bill No.: -UNL/FCA/2020-12/02, dt. 12.01.2021 **Rs 12.6396313 Crs**

(Rs Twelve crore, sixty three lacs, ninety six thousand, three hundred and thirteen only)

It is, therefore, requested that the payment of these Bills in accordance with UPERC Generation Tariff Regulation-2019, dt. 11.09.2019 and Power Purchase Agreements signed between UPRVUNL and UPPCL may kindly be ensured.

FCA Bill for Anpara A, B & D, Obra 'B' and Parichha B & C TPS could not be prepared due to non-receipt of Certified Fuel Data.

Last Fuel data received on dt. 12.01.2021 of 2x250 MW Harduaganj Ext TPS.

The Calculation sheet for Rate of Variable Cost of MOD stack w.e.f. 15.01.2021 is attached herewith.

Encl.: As above.

(Avikshit Singh)
Chief Engineer (Commercial)

Date: 12, January, 2021

No 15/UNL/CE(Comm.)/FCA/FY (2020-21)

Copy forwarded to the following for their kind information :-

1. PS to Managing Director, UPRVUNL, 7th floor, Shakti Bhawan, Lucknow.
2. Senior Advisor to MD, UPRVUNL, 8th floor, Shakti Bhawan Extn, Lucknow.
3. Director (Technical/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 (Project Coordinator), Harduaganj Extn. Thermal Power Project,
3. Dy CAO (Finance), UPRVUNL, 8th floor, Shakti Bhawan Extn, Lucknow.
4. Dy CAO (Accounts), UPRVUNL, 9th floor, Shakti Bhawan Extn, Lucknow.
5. Chief Manager (CMU), UPRVUNL, 7th floor, Shakti Bhawan Extn, Lucknow.
6. Dy CAO (CFA&BO), Obra & Harduaganj Extn. Thermal Power Project,

→ Summary File

(Avikshit Singh)
Chief Engineer (Commercial)

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

GST Reg. No. - 09AAACU4749D2Z9

December, 2020
U.P. Power Corporation Ltd.
Shakti Bhawan, Extn.
14, Ashok Marg, Lucknow
09AAACU5088M4ZM

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

GST Reg. No.:

FCA Bill No. - UNL/FCA/2020-12/02

Bill Date - 12.01.2020

Due Date - 30 Days from the billing date

Reference - (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)

Provisional FCA Bill due to variation in Cost & GCV of fuel of Harduaganj Ex. TPS of UPRVNL for the month of December-2020 raised to UPPCL as per UPERC Gen. Tariff Regn., 2019 Dt. 11.09.2019

S.No.	Parameters	Symbol	Unit	Harduaganj Extn.	Total
A	Unit No.	ESD	MU	U9889 86.330545	86.330545
Normative Operating Parameters					
B	Energy Exported & Billed (ESO)	H	Kcal/kwh	2430	
C	Gross Station Heat Rate (GSHR)	(Q _{gm})	ml/kwh	0.50	
D	Sp. Oil Cons.	AUX _n	%	9.00	
Auxiliary Energy Consumption					
Fuel Data for the month					
E	Price of Primary fuel (Coal)	P _p	Rs. kg	4.91969	
F	Price of Secondary fuel (Oil)	P _s	Rs. ml	0.04320115	
G	Gross Calorific Value of Primary fuel (Coal)	C _p	Kcal/kg	3275.00	
H	Gross Calorific Value of Secondary fuel (Oil) less 85 Kcal/kg on account of variation during storage (C _p - C _{p85})	C _{p1}	Kcal/kg	3190.00	
I	Gross Calorific Value of Secondary fuel (oil)	C _v	Kcal/ml	10570.00	
Formula of ECR					
J	Energy Charge Rate for the month (ECR)	ECR = 100/P _p * (H - (Q _{gm} * C _v / 1000))	Rs./kwh	4.1340	
K	Already claimed energy charge rate (ECR1)	ECR1	Rs./kwh	2.6790	
L	Diff. in ECR (J-K)	ECR2	Rs./kwh	1.4630	
M	Amt. of Energy Charge due to variation in fuel data (AxL)/10		Rs.Cts	12.6401587	12.6301587
N	TCS 0.075% as per New Clause no. 206 C (III) of Finance Bill 2020 (M*0.075/100)				0.0094726
O	Total FCA Billed Amount (Cr) (M+N)				12.6396313

(Rs Twelve Crore, sixty three Lacs, ninety six Thousand, three Hundred and thirteen only)

Normative Parameters have been taken as per UPERC Generation Tariff Regulation-2019, dt. 11.09.2019 for various TPS of UPRVNL. Certified Fuel Data of Antpara 'A', 'B' & 'D' TPS, Obra 'B' and Parichha 'B' & 'C' TPS are still awaited.

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

Sourabh
(Saurabh Grover)
EA (Comml.)

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

Atul
(Atul Pandey)
Accountant

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

Sandeep
(S.K. Yadav)
AE (Comml.)

Rajeev
(Rajeev Kumar Jadhav)
EE (Comml.)

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. 41/UNL/CE(Comm.)/FCA/FY (2020-21)

Date: 29, January, 2021

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

Subject: Supplementary Bill of FCA of various TPS of UPRVUNL for December 2020.

The Supplementary bill of Fuel Cost Adjustment (FCA) for variation in fuel data certified by Cost Accountants 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 -2020**, is being enclosed herewith for payment :-

(1) FCA Bill No.: -UNL/FCA/2020-12/02A, dt. 29.01.2021 **Rs 66.9557531 Crs**
(Rs Sixty six crore, ninety five lacs, fifty seven thousand, five hundred and thirty one only)

It is, therefore, requested that the payment of these Bills in accordance with UPERC Generation Tariff Regulation-2019, dt. 11.09.2019 and Power Purchase Agreements signed between UPRVUNL and UPPCL may kindly be ensured.

FCA Bill for Harduaganj Extn. TPS has already been sent.

Last Fuel data received on dt. 28.01.2021 of Obra 'B' TPS.

The Calculation sheet for Rate of Variable Cost of MOD stack for the month of February-2020 is attached herewith.

Encl.: As above.

(Avikshit Singh)

Chief Engineer (Commercial)

No 41/UNL/CE(Comm.)/FCA/FY (2020-21)

Date: 29, January, 2021

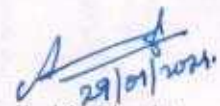
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3. Director (Technical/Finance), UPRVUNL, 8th floor, Shakti Bhawan Extn, Lucknow.

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 (Project Coordinator), Anpara, Obra, Parichha TPS.
3. Dy CAO (Finance), UPRVUNL, 8th floor, Shakti Bhawan Extn, Lucknow.
4. Dy CAO (Accounts), UPRVUNL, 9th floor, Shakti Bhawan Extn, Lucknow.
5. Chief Manager (CMU), UPRVUNL, 7th floor, Shakti Bhawan Extn, Lucknow.
6. Dy CAO (CFA&BO), Anpara, Obra, Parichha Thermal Power Project.

→ Summary file


29/01/2021

(Avikshit Singh)

Chief Engineer (Commercial)

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

GST Reg. No. - 09AAACU4749DZ9

December, 2020
U.P. Power Corporation Ltd.
Shakti Bhawan, Extn.
14, Ashok Marg, Lucknow
09AAACU4088M4ZM

FCA Bill No. - UNL/FCA/2020-12/02A
Bill Date - 29.01.2021
30 Days from the billing date
Due Date -
Reference - (i) UPERC Tariff Order Dt. 29.04.2016 & 38.01.2017
(ii) UPERC Gen Regn., 2019 Dt. 11.09.2019
(iii) Fuel data from Plants (certified by Cost Accountant)

Provisional Fuel Cost Adjustment Bill due to variation in Cost & GCV of fuel of various TPS of UPRVNL for the month of December-2020 raised to UPRVNL as per UPERC Gen. Tariff Regn., 2019 Dt. 11.09.2019

S.No.	Parameters	Unit	Anpara A	Anpara B	Anp D	Obra B	Parl Extn.	Stage-2	Total
d	Energy Exported & Billed (ESQ)	MWh	101,2&3	1,0&4,5	1,0&6,7	1,09 to 13	1,0&3&4	1,0&5&6	1,785,646,498
B	Normative Operating Parameters								
C	Gas Station Heat Rate (GSHR)	Kwh/kwh	2374	2374	2374	2755	2430	2430	
D	Sp. Oil Cons.	%	0.50	0.48	0.50	2.10	0.50	0.50	
E	Auxiliary Energy Consumption	%	8.50	6.55	6.25	9.70	9.00	9.00	
F	Fuel Data for the month								
G	Price of Primary fuel (Coe)	Rs/kg	2,402.58	2,418.60	2,461.54	2,814.78	5,017.61	5,017.61	
H	Price of Secondary fuel (Dse)	Rs/ml	0.04196473	0.04196473	0.04196473	0.04063173	0.03469024	0.03469024	
I	Gross Calorific Value of Primary fuel (Coat)	Kcal/kg	3,099.00	3,857.00	3,887.00	3,726.00	3,470.00	3,470.00	
J	Gross Calorific Value of Secondary fuel (Co2)	Kcal/kg	3,414.00	3,767.00	3,802.00	3,641.00	3,385.00	3,385.00	
K	Formula of ECR	Rs/kwh	9,584.34	9,584.34	9,584.34	9,030.00	9,608.50	9,608.50	
L	Energy Charge Rate for the month (ECR)	Rs/kwh	1,8882	1,6612	1,6585	2,4369	3,9695	3,9695	
M	Annually charged energy charge rate (ECR1)	Rs/kwh	1,8700	1,6200	1,4400	1,5200	3,2100	3,2100	
N	Diff in ECR (Lsk1)	Rs/kwh	0.0182	0.0412	0.2185	0.9169	0.7595	0.7595	
O	Amt. of Energy Charge due to variation in fuel data (AxL)/10	Rs/Cwh	0,3589450	2,383,3258	7,457,1680	34,494,9269	4,464,6019	17,746,0063	66,995,5739
P	TCS @ 0.75% as per New Clause no. 206 C (11) of Finance Bill 2020 (M*0.075/100)								0,0501792
Q	Total FCA Billed Amount Payable (Cr) (M-N)								66,995,5731

(Rs Sixty six crore, ninety five lacs, fifty seven thousand, five hundred and thirty one only)

Normative Parameters have been taken as per UPERC Generation Tariff Regulation-2019, dt. 11.09.2019 for various TPS of UPRVNL.

FCA Bill for Hardening Extn. for the month December-2020 has already been sent.

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

Saurabh Grover
Saurabh Grover
EA (Contract)

Gagan Prasad
Gagan Prasad
Accountant

M/S
Khyal Singh
Accounts Officer

Sanjay
Sanjay
AE (Contract)

Rajeev Kumar Jaiswal
Rajeev Kumar Jaiswal
EH (Contract)

Rate of Variable Cost for MOD of the month Feb'2021 as per UPERC Order dt. 21.06.2016 against Petition no. 1070/2015 according to Energy/FCA Bill for the month of Dec'2020

Project	Approved para UPERC T.O.#	Target Availability %	Cumulative Availability %	Total capacity changes at 15% tariff	Percentage to be recovered	Amount of annual capacity changes at 15% BEE corresponding to Column 6	Total capacity changes at 15% BEE	Amount of annual capacity changes at 15% BEE corresponding to Column 6	Total capacity changes at 15% BEE	Forecasting Capacity Charges for the month	Energy Charge per Mwh Energy BU	Variable Charge per FCA BU	Total Variable Cost - Forecasting Fixed Cost	Scheduled Generation by S.DCO Energy Sell Out to Puzos*	Revised Rate of Variable Cost for MOD
	(NW)	(%)	(%)	(Rs. Cro)	(%)	(Rs. Cro)	(Rs. Cro)	(Rs. Cro)	(Rs. Cro)	(Rs. Cro)	(Rs. Cro)	(Rs. Cro)	(Rs. Cro)	(MWH)	(Rs/Cu. Mtr)
Ampara 'A'	630	85	66.84	339.55	76.64	267.0221200	18,833,706.7	241,393,144.0	17,026,048.0	1,897,658.7	36,480,615.0	0.3589450	35,431,901.3	197,222,540	1,797
Ampara 'B'	1050	85	88.02	485.68	100.00	485,680,000.00	40,473,333.33	307,880,000.00	25,656,666.7	14,81,666.66	93,71,32,939	2.3833258	81,27,99,555	578,477,135	1,405
Ampara 'D'	1000	85	48.45	1323.02	57.00	754,121,400	64,78,879.3	620,587,500.00	53,312,458.3	11,471,421.0	49,14,56,383	7.4571680	45,13,18,853	341,289,155	1,322
Other 'B'	1000	80	61.02	453.56	76.28	345,975,568.0	34,48,56,787	321,81,76,920	32,077,030	2,40,79,757	57,18,43,046	34.4949269	89,27,12,558	376,212,830	2,373
H'dng. Extn.	500	85	90.90	658.65	100.00	658,650,000.00	54,88,75,000	532,380,000.00	41,36,50,000	10,52,25,000	23,05,02,555	12.6301587	25,15,79,142	86,33,05,445	2,914
Para. Extn.	420	85	89.99	381.95	100.00	381,950,000.00	31,82,91,067	333,660,000.00	27,80,50,000	4,024,166.7	18,86,94,826	4.4646019	19,30,99,178	58,783,435	3,285
Para. Extn. Stage-2	500	85	94.97	607.06	100.00	607,060,000.00	50,588,333.33	498,790,000.00	41,54,58,333.1	9,02,25,000	75,00,54,007	17.7466063	83,72,95,130	235,661,703	3,583
H'dng. (107) \$	105	65	18.00	82.82	27.69	22,931,851.1	-0.0379878	21,86,95,620	-0.0361992	-0,001,788.3	0.0000000	0.0000000	0.0000000	0.0000000	3,374
TOTAL				4332.29	3569.29	3523,390,939.1	293,61,59,116	2878,378,098.0	241,77,25,101	54,07,11,304	353,84,89,986	79,83,53,326	379,31,18,425	1871,977,0430	

UPPC Letter no. 766/CE/PPA, dt. 23.05.2018

* Taken from Energy Bill of the month.

As per UPERC Tariff Order.

** Taken from FCA Bill of the month.

Column No. 8 & 10 computed as per UPERC Generalisation Regulation 2019, dt. 11.09.2019 para 25, for n months=(n+1)(KACCn-1)/12

\$ Hardwagan (107) remain closed in December 2020, hence SG is 0 (Zero). Therefore, rate of previous variable charge for MOD has been taken.

S. Sankar
EA (Comml.)

Sankar
AE (Comml.)

Rajathirani
EE (Commercial), UPRVUNL