

DISCOM WISE MOD STACK OF VARIABLE CHARGES (VC) FOR MARCH-2024 (R0)

(*Effective from 16.03.2024 to 15.04.2024)

Sr. no.	Generating Station	OWNER/T YPE	Installed Capacity/ Share in ISGS (MW)	Type of Fuel	Variable Charge Rs./KWh in Descending Order		
					Approved Variable Charge(Rs/KWh)	Impact for approved change in law (if any) Rs./KWh)	Total Variable Charge(Rs/ KWh)
1	2	3	4	5	6	7	8
DECENTRALISED MOD STACK FOR MSEDCL							
1	KAWAS (RLNG)	CS	-	Gas	10.7358	0.0000	10.7358
2	JGPS (RLNG)	CS	-	Gas	10.6839	0.0000	10.6839
3	KAWAS (NAPM-COM GAS)	CS	-	Gas	9.0702	0.0000	9.0702
4	GANDHAR (NAPM-COM GAS)	CS	-	Gas	9.0380	0.0000	9.0380
5	Jindal Power Limited U1 (Dhule) to MSEDCL	STOA	100	Coal	7.7100	0.0000	7.7100
6	IEPL TO MSEDCL	STOA	50	Coal	7.6400	0.0000	7.6400
7	Jindal Power Limited U2 (Dhule) to MSEDCL	STOA	100	Coal	7.5000	0.0000	7.5000
8	Uran GTPS (Open cycle operation)	MSPGCL	-	Gas	7.2580	0.0000	7.2580
9	KAWAS (APM GAS)	CS	200	Gas	5.9291	0.0000	5.9291
10	GANDHAR (APM GAS)	CS	204	Gas	5.8980	0.0000	5.8980
11	Parali Unit - 06 & 07	MSPGCL	500	Coal	5.3420	0.0000	5.3420
12	Parali Unit -08	MSPGCL	250	Coal	5.3340	0.0000	5.3340
13	Uran GTPS (Combined cycle operation)	MSPGCL	840	Gas	5.2040	0.0000	5.2040
14	Solapur STPS	CS	642	Coal	4.9053	0.0000	4.9053
15	Bhusawal Unit - 03	MSPGCL	210	Coal	4.8880	0.0000	4.8880
16	Khargone	CS	85	Coal	4.6454	0.0000	4.6454
17	Nasik Unit - 03 to 05	MSPGCL	630	Coal	4.5930	0.0000	4.5930
18	Chandrapur Unit - 03 to 07	MSPGCL	1920	Coal	4.2860	0.0000	4.2860
19	APML U-1,4 & 5 (440 MW PPA)	IPP	440	Coal	2.4225	1.8263	4.2488
20	Gadarwara	CS	46	Coal	4.2220	0.0000	4.2220
21	APML, Unit 1,4 & 5 (1200 MW PPA)	IPP	1200	Coal	2.3625	1.8263	4.1888
22	APML, Unit 1,4 & 5 (125 MW PPA)	IPP	125	Coal	2.3625	1.8263	4.1888
23	CGPL	CS	760	Coal	4.1747	0.0000	4.1747
24	JSW U1, Jaigad	IPP	300	Coal	4.1700	0.0000	4.1700
25	Bhusawal Unit - 04 & 05	MSPGCL	1000	Coal	4.1080	0.0000	4.1080
26	MSTPS-I	CS	394	Coal	3.9178	0.0000	3.9178
27	MSTPS-II	CS	531	Coal	3.9074	0.0000	3.9074
28	Paras Unit - 03 & 04	MSPGCL	500	Coal	3.6320	0.0000	3.6320
29	Chandrapur Unit - 08,09	MSPGCL	1000	Coal	3.5910	0.0000	3.5910
30	Khaperkheda Unit - 01 to 04	MSPGCL	840	Coal	3.4370	0.0000	3.4370
31	IEPL TO MSEDCL	STOA	180	Coal	3.3700	0.0000	3.3700
32	Koradi Unit - 06	MSPGCL	210	Coal	3.1480	0.0000	3.1480
33	Koradi Unit - 08 to 10	MSPGCL	1980	Coal	3.1400	0.0000	3.1400
34	Khaperkheda Unit - 05	MSPGCL	500	Coal	3.0590	0.0000	3.0590
35	APML, Unit 2 & 3 (1320 MW PPA)	IPP	1320	Coal	1.6770	1.3442	3.0212
36	SWPGPL TO MSEDCL	LTOA	240	Coal	2.5425	0.4669	3.0094
37	RattanIndia Power Ltd, Amravati	IPP	1200	Coal	2.3705	0.5037	2.8742
38	KHTPS-II	CS	148	Coal	2.8337	0.0000	2.8337
39	EMCO	CS	200	Coal	2.7333	0.0000	2.7333
40	VSTP-I	CS	432	Coal	1.7530	0.0000	1.7530
41	SSTPS-II	CS	274	Coal	1.7493	0.0000	1.7493
42	KSTPS I AND II	CS	635	Coal	1.7412	0.0000	1.7412
43	SSTPS-I	CS	556	Coal	1.6991	0.0000	1.6991
44	VSTPS-V	CS	161	Coal	1.6933	0.0000	1.6933
45	KSTPS-III	CS	120	Coal	1.6921	0.0000	1.6921
46	VSTP-II	CS	336	Coal	1.6676	0.0000	1.6676
47	VSTPS-III	CS	275	Coal	1.6445	0.0000	1.6445
48	VSTP-IV	CS	294	Coal	1.6250	0.0000	1.6250
49	Lara	CS	114	Coal	1.4495	0.0000	1.4495
DECENTRALISED MOD STACK FOR AEML							
1	ADTPS U-1 & 2	DTPS	500	Coal	3.6568	0.0000	3.6568
DECENTRALISED MOD STACK FOR TPCL-D							
1	TPC U-7 (RLNG)-NAPM	TATA	xxx	Gas	10.6260	0.0000	10.6260
2	TPC U-5	TATA	500	Coal/Oil/Gas	5.7310	0.0000	5.7310
3	TPC U-8	TATA	250	Coal	5.5680	0.0000	5.5680
4	TPC U-7 (APM) *	TATA	180	Gas	5.0350	0.0000	5.0350
DECENTRALISED MOD STACK FOR BEST							
1	TPC U-7 (RLNG)	TATA	xxx	Gas	10.6260	0.0000	10.6260
2	TPC U-5	TATA	500	Coal/Oil/Gas	5.7310	0.0000	5.7310
3	TPC U-8	TATA	250	Coal	5.5680	0.0000	5.5680
4	TPC U-7 (APM) *	TATA	180	Gas	5.0350	0.0000	5.0350
5	SWPGL TO BEST	MTOA	100	Coal	2.2600	0.0000	2.2600
NOTE-							

1) Prepared as per Clause 33 of State Grid Code Regulation 2020 issued by Hon'ble MERC dtd. 2nd sept 2020 .

2) *R0 updated on mahasidc.in website on dated 15.03.2024

3) Actual rates of NTPC Kawas and Gandhar are displayed on WRLDC web-site daily.

4) Hydro generation is not considered for MOD.

5) Gas and RE and Nuclear Generation is considered as MUST RUN.

Ref No: RCD24/45-A/LT0316

Date: 01-Mar-24

To,

The Chief Engineer (Power Purchase)

Maharashtra State Electricity Distribution Company,

5th floor, Prakashgad, Bandra (E),

Sub: Provisional Energy Bill for the supply of power from MSPGCL's Thermal & Gas Power Stations' for the month of February 2024

Ref: 1) Power Purchase Agreement between MSPGCL & MSEDCL, dated 01.04.2009

2) Jointly signed meter readings

3) MERC order in Case No. 227 of 2022 dated 31st March 2023

4) DSM Regulation 2019

5) Suo-Muto MERC Order dated 07th Oct 2021

6) MSEDCL's letter CE/PP/MSPGCL/Billing Issues/25577 dtd 25.08.2023

7) MSPGCL's letter no. Ref No: RCD23/45-L / LT01275 Dated 03.11.2023

8) MSPGCL's letter no. Ref No: RCD23/45-L / LT01372 Dated 30.11.2023

9) MSEDCL's letter no. Ref No:CE/PP/MSPGCL/Billing issues/No 5878 Dated 23.02.2024

Dear Sir,

Please find attached herewith the monthly energy bill for the Month of February 2024, Bill No. (130 /2023) for supply of Power from for MSPGCL's Thermal & Gas Power Stations to MSEDCL.

Mahagenco's Thermal & Gas Power Stations have supplied Total 4609.524274 MUs to MSEDCL, in the month of February 2024. Net Energy Bill amount for MAHAGENCO's Thermal & Gas Power Stations is Rs.2563.4571976 Crores; Bill amount in words Rs. Two Thousand Five Hundred Sixty Three Crore Forty Five Lakhs Seventy One Thousand Nine Hundred Seventy Six Only

This bill is raised as per the Tariff order passed by MERC in Case No. 227 of 2022 , vide ref.3. As the MERC MYT regulation is effective from 1st april 2020, therefore the calculation of AFC disallowance is done as per MYT regulations 2019 considering **Feb-2024** as the **Nineth month in Low demand season** as declared by SLDC, therefore the AVF calculations are done accordingly.

As per MERC DSM Regulation and MERC Suo-Muto Order dated 07th Oct 2021, DSM is made commercially applicable from 11th Oct 2021 onwards. As per the related regulatory provisions, the energy billing under DSM is to be done as per scheduled generation. Accordingly, MSPGCL has carried out the energy bill as per schedule data available on SLDC's DSM scheduling software. MSPGCL, vide letter under ref.7 & 8, has suitably established that the due date of energy bill will be 30 days only. Hence the due date of this energy bill is 30 days. Further, as there is no time tagging from MSEDCL, while making payments to MSPGCL, therefore MSPGCL shall adjust the payments towards LPS first and thereafter, towards monthly charges, starting from the longest overdue bill, as per LPS rule 2022 (Clause no. 4). Further, as per letter under ref. 9, MSEDCL has stated that due date of the bill will be counted from date of receipt of all requisite data pertaining to bill. In this regard, it is to inform that MSPGCL provides all the necessary data along with the bill, as well as provides any necessary document, if necessary, as and when requested by MSEDCL. As per Clause 1.1 (g) of the PPA, billing date means the date on which the bill is presented to MAHAVITARAN by MAHAGENCO, also as per the clause 9.2.1 of the PPA, MSEDCL should process and pay the full bill, within the due date.

As per PPA clause 9.3 (b) late payment surcharge shall be applicable as per the rate provided in the prevailing MERC regulation, if the payment of the bill is made beyond due date. This bill is subject to amendments/ revision based on orders that may be passed by MERC /APTEL or reason of any subsequent development at later stage.

Thanking you,

Enclosure: Bill No: 130 /2023

Regard's



01/03/2024
Chief Engineer (RCD), MSPGCL

MAHARASHTRA STATE POWER GENERATION CO. LTD.

PH: 26472211, 26472131

FAX: 91-22-26580643

Email: rcgen@mahagenco.in

Regulatory & Commercial Dept.

Prakashgad, 3rd Floor,

Bandra (E) Mumbai 400 051



Energy Bill No: 130 /2023

Bill Date: 01-03-2024

Due date: 30-03-2024

Energy Bill of MAHAGENCO for the Month of Feb 2024 (From 01.02.2024 (00.00Hrs) to 29.02.2024(24:00Hrs)

THERMAL & GAS STATIONS

SR. NO.	POWER STATION	UNITS SENT OUT Scheduled generation (Mus)	ENERGY RATE (Rs./Unit)	MONTHLY ENERGY CHARGE (Rs. in Lakhs)	APPROVED MONTHLY FIXED CHARGE (Rs.in Lakhs)	BILL CLAIMED FOR THE MONTH (Rs.in Lakhs)	ADDITIONAL AFC DISALLOWANCE ADJUSTED FOR THE CURRENT MONTH (Rs.LAKHS.)	NET FC AFTER ADJUSTING THE AFC DISALLOWANCE UPTO THE MONTH (Rs.in Lakhs)	NET BILL CLAIMED FOR THE MONTH (Rs.in Lakhs)
a	b	c	d	$e = (c * d) * 10$	f	$g = e + f$	h = 00	$i = f - h$	$j = g - h$
1	BHUSAWAL (Unit 3)	87.242234	4.408	3845.63767	1443.11576	5288.75343	-93.87553	1536.99129	5382.62896
2	BHUSAWAL (Unit 4-5)	447.817272	3.710	16614.02079	8604.87758	25218.89837	690.77799	7914.09959	24528.12038
3	KHAPARKHEDA (Unit 1-4)	353.939305	4.197	14854.83263	5014.31725	19869.14988	360.62950	4653.68775	19508.52038
4	KHAPARKHEDA U # 5	305.144188	4.007	12227.12761	4571.94413	16799.07174	-459.07286	5031.01699	17258.14460
5	NASHIK (Unit 3-5)	153.600563	4.647	7137.81816	3929.38557	11067.20373	-0.00001	3929.38558	11067.20374
6	CHANDRAPUR (Unit 3-7)	699.472588	4.103	28699.36029	8174.40775	36873.76804	-123.67150	8298.07925	36997.43954
7	CHANDRAPUR (Unit- 8 & 9)	549.992874	3.444	18941.75458	10105.32069	29047.07527	0.00000	10105.32069	29047.07527
8	PARAS (Unit 3-4)	295.036067	3.483	10276.10621	3810.08488	14086.19109	-502.01236	4312.09724	14588.20345
9	PARLI (Unit 6-7)	202.006534	5.100	10302.33323	3855.42814	14157.76137	-0.00001	3855.42815	14157.76138
10	PARLI (Unit 8)	101.883904	5.016	5110.49662	3200.24029	8310.73691	-440.32568	3640.56597	8751.06259
11	KORADI (Unit 6)	111.809693	3.319	3710.96371	2487.75165	6198.71536	0.00000	2487.75165	6198.71536
12	KORADI (Unit- 8,9 & 10)	1108.921552	3.084	34199.14066	16217.60234	50416.74300	-2926.49607	19144.09841	53343.23907
13	GTPS URAN (Unit 5-10)	192.657500	6.760	13023.64700	1019.47633	14043.12333	-1474.48171	2493.95804	15517.60504
	TOTAL THERMAL	4609.524274		178943.23916	72433.95236	251377.19152	-4968.52824	77402.48060	256345.71976

ENERGY BILL FOR SUPPLY OF ENERGY FROM MAHAGENCO'S THERMAL & GAS POWER STATIONS TO MAHAVITARAN FOR THE MONTH OF February 2024

Bill amount in words Rs. Two Thousand Five Hundred Sixty Three Crore Forty Five Lakhs Seventy One Thousand Nine Hundred Seventy Six Only

(Signature)
Chief Engineer, 01/03/2024

Regulatory & Commercial Dept.

MAHARASHTRA STATE POWER GENERATION CO. LTD.

Regulatory & Commercial Dept.
Prakashgad, 3rd Floor,
Bandra (E) Mumbai 400 051

PH: 26472211, 26472131
FAX: 91-22-26580643
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Calculation for Cumulative AVF Based AFC Disallowance upto February 2024

Month: Feb-24														
Season: Low demand season														
Month no. in the season: 9														
SR. NO.	POWER STATION	Approved Annual Fixed Charge for target AVF (Rs.in Lakhs)	AFC upto Sixth month of low demand season for target AVF (Rs.in Lakhs)	Normative Availability (%)	Ceiling for peak period recovery during the season	Ceiling for off-peak period recovery during the season	Actual peak period Cumulative AVF upto February 2024 (%)	Actual off-peak period Cumulative AVF upto February 2024 (%)	Capacity Charge for Peak Hours of the Month	Capacity Charge for Off-Peak Hours of the Month	Recoverable Capacity charge as per actual availability factor	Fixed charge disallowance to be passed on	AFC Disallowance adjusted up to last month (Rs. Lakhs.)	Additional AFC disallowance adjustment to be done in the bill for the month of February 2024 (Rs. Lakhs.)
aa	bb	cc	dd	ee	ff	gg	hh	ii	jj	kk	ll = ij + kk	mm = dd - ll	nn	oo = mm - nn
1	BHUSAWAL (Unit 3)	16241.56685	12181.17510	80.00%	2436.23503	9744.94011	56.136%	56.297%	1709.50612	6857.63617	8567.14229	3614.03281	3707.90834	-93.87553
2	BHUSAWAL (Unit 4-5)	102944.53097	77208.39819	85.00%	15441.67965	61766.71858	82.342%	81.763%	14958.80924	59414.49660	74373.30584	2835.09235	2144.31436	690.799
3	KHAPARKHEDA (Unit 1- 4)	61686.99370	46265.24529	85.00%	9253.04906	37012.19622	62.838%	62.511%	6840.50702	27219.63998	34060.14699	12205.09830	11844.46880	360.62950
4	KHAPARKHEDA U # 5	51277.32952	38457.99711	85.00%	7691.59943	30766.39771	84.479%	83.515%	7644.45445	30228.89065	37873.34509	584.65202	1043.72488	-459.07286
5	NASHIK (Unit 3-5)	45794.62682	34345.97010	80.00%	6869.19402	27476.77609	80.324%	80.098%	6869.19402	27476.77609	34345.97012	-0.00002	-0.00001	-0.00001
6	CHANDRAPUR (Unit 3-7)	114214.08305	85660.56225	80.00%	17132.11246	68528.44983	50.828%	51.155%	10884.88765	43819.66064	54704.54829	30956.01396	31079.68546	-123.67150
7	CHANDRAPUR (Unit- 8 & 9)	120692.84832	90519.63624	85.00%	18103.92725	72415.70899	85.990%	85.449%	18103.92725	72415.70899	90519.63624	0.00000	0.00000	0.00000
8	PARAS (Unit 3- 4)	45996.02244	34497.01683	85.00%	6899.40337	27597.61346	82.015%	81.522%	6657.11255	26468.38406	33125.49661	1371.52022	1873.53258	-502.01236
9	PARALI (UNIT 6-7)	44903.13773	33677.35326	85.00%	6735.47066	26941.88264	89.649%	90.048%	6735.47066	26941.88264	33677.35330	-0.00004	-0.00003	-0.00001
10	PARALI (UNIT 8)	37557.88352	28168.41267	85.00%	5633.68253	22534.73011	72.472%	72.848%	4803.34400	19313.05905	24116.40305	4052.00962	4492.33530	-440.32568
11	KORADI (Unit 6)	25980.01978	19485.01485	72.00%	3897.00297	15588.01187	75.037%	75.311%	3897.00297	15588.01187	19485.01484	0.00001	0.00001	0.00000
12	KORADI (Unit- 8, 9 & 10)	221061.80461	165796.35345	85.00%	33159.27069	132637.08277	69.389%	68.957%	27069.27805	107603.00372	134672.28177	31124.07168	34050.56775	-2926.49607
13	GTPS URAN (Unit 5 -10)	27037.66230	20278.24677	38.11%	4055.64935	16222.59738	33.599%	34.188%	3575.59072	14553.08736	18128.67808	2149.56869	3624.05040	-1474.48171
	TOTAL THERMAL	915388.50961	686541.38211		137308.27644	549233.10577			119749.08469	477900.23781	597649.32251	88892.05960	93860.58784	-4968.52824


 Chief Engineer,
 Regulatory & Commercial Dept.

Energy Bill of MAHAGENCO for the Month of Feb 2024 (From 01.02.2024 (00.00Hrs) to 29.02.2024(24:00Hrs)

<u>THERMAL POWER STATIONS</u>		<u>Scheduled Generation</u>
A. BHUSAWAL THERMAL POWER STATION		
Total scheduled Gen for Bhuswal 3		87.242234
B. Bhusawal THERMAL POWER STATION (Unit # 4) (500 MW)		
Total scheduled Gen for Bhuswal 4		196.877685
C. Bhusawal THERMAL POWER STATION (Unit # 5) (500 MW)		
Total scheduled Gen for Bhuswal 5		250.939587
Total scheduled Gen for Bhuswal 4 & 5		447.817272
D. KHAPERKHEDA THERMAL POWER STATION (U # 1-4) (840 MW)		
1	U#1 210 MW	102.633429
2	U#2 210 MW	59.949902
3	U#3 210 MW	91.391630
4	U#4 210 MW	99.964344
Total scheduled Gen for KPKD 1-4 (Mus.)		353.939305
E. KHAPERKHEDA THERMAL POWER STATION (Unit # 5) (500 MW)		
Units sent out (Mus.)		305.144188
F. NASHIK THERMAL POWER STATION (Unit # 3 to 5) (630 MW)		
1	U#3 210 MW	0.000000
2	U#4 210 MW	84.069311
3	U#5 210 MW	69.531252
TOTAL Units sent out (Mus.)		153.600563
G. CHANDRAPUR THERMAL POWER STATION (Unit # 3 to 7) (1920 MW)		
1	U#3 210 MW	84.065493
2	U#4 210 MW	81.716184
3	U#5 500 MW	227.121288
4	U#6 500 MW	110.167485
5	U#7 500 MW	196.402138
Unit sent out (Mus)		699.472588
H. CHANDRAPUR (Unit # 8) (500 MW)		
Net energy sent out from C'pur U-8		257.245223
I. CHANDRAPUR (Unit # 9) (500 MW)		
Net energy sent out from C'pur U-9		292.747651
Total Net sent out from Chandrapur 8 & 9		549.992874
J. PARAS THERMAL POWER STATION (Unit-3) (250 MW)		
Unit sent out (Mus)		144.582053
K. PARAS THERMAL POWER STATION (Unit-4) (250 MW)		
Unit sent out (Mus)		150.454014
Total Net sent out from Paras 3 & 4		295.036067
L. PARLI THERMAL POWER STATION (Unit-6) (250 MW)		
Units sent out (Mus.)		102.411237
M. PARLI THERMAL POWER STATION (Unit-7) (250 MW)		
Units sent out (Mus.)		99.595297
Total Net sent out from Parali 6 & 7		202.006534
N. PARLI (Unit-8) THERMAL POWER STATION		
Units sent out (Mus.)		101.883904
O. KORADI THERMAL POWER STATION (U# 6)		
Total Net sent out from Koradi 6		111.809693
P. KORADI THERMAL POWER STATION (U # 8) (660 MW)		
Unit sent out (Mus)		397.824805
Q. KORADI THERMAL POWER STATION (U # 9) (660 MW)		
Unit sent out (Mus)		350.292543
R. KORADI THERMAL POWER STATION (U # 10) (660 MW)		
Unit sent out (Mus)		360.804204
Total Net sent out from Koradi 8 & 9 & 10		1108.921552
I. GTPS Uran		
Unit-5		0
Unit-6		0
Unit-7		64.36525
Unit-8		61.657
Unit-A0		0
Unit-B0		66.63525
Total Net sent out from GTPS Uyan		192.657500

		combined cycle																												Open cycle		
S.No.	Particulars	Units	Bhawal	Bhawal	Bhawal 4 & 5	Bhawal 4 & 5	Khaperdih 1 TO 4	Khaperdih 1 TO 4	Khaperdih 4 & 5	Khaperdih 4 & 5	Nashik	Nashik	Chandrapur 3 to 7	Chandrapur 3 to 7	Chandrapur 8 & 9	Chandrapur 8 & 9	Paras Units 3 & 4	Paras Units 3 & 4	Paras Units 6 & 7	Paras Units 6 & 7	Paras Unit 8	Paras Unit 8	Koradi 6	Koradi 6	Koradi Units 8 & 9	Koradi Units 8 & 9	URAN	URAN	URAN	URAN		
1 Operational parameters			Actual	Normative	Actual	Normative	Actual	Normative	Actual	Normative	Actual	Normative	Actual	Normative	Actual	Normative	Actual	Normative	Actual	Normative	Actual	Normative	Actual	Normative	Actual	Normative	Actual	Normative	Actual	Normative	Actual	Normative
1.1	Total Capacity	MW	210	210	1900	1900	640	640	500	500	630	630	1920	1920	1000	1000	500	500	500	500	500	500	250	250	420	420	1980	1980	672	672	672	672
1.2	Availability	%	86.95%	86.95%	77.27%	77.27%	88.57%	88.57%	94.64%	94.64%	79.81%	79.81%	89.95%	89.95%	89.20%	89.20%	95.51%	95.51%	97.46%	97.46%	99.31%	99.31%	95.87%	95.87%	86.03%	86.03%	88.03%	88.03%	42.51%	42.51%	42.51%	42.51%
1.3	PLF	%	67.09%	67.09%	64.47%	64.47%	67.09%	67.09%	67.09%	67.09%	61.93%	61.93%	61.93%	61.93%	61.93%	61.93%	61.93%	61.93%	61.93%	61.93%	61.93%	61.93%	61.93%	61.93%	61.93%	61.93%	61.93%	61.93%	61.93%	61.93%	61.93%	
1.4	Green Generation	Mt	108.52	108.52	482.31	482.31	393.26	393.26	324.26	324.26	186.58	186.58	772.54	772.54	389.44	389.44	197.54	197.54	327.81	327.81	236.12	236.12	118.29	118.29	125.31	125.31	1194.13	1194.13	179.64	179.64		
1.5	Auxiliary Consumption excluding FGD	kcal/kWh	12.38	11.82	33.59	33.59	28.94	28.94	38.15	38.15	18.75	18.75	22.88	22.88	20.10	20.10	73.71	73.71	60.26	60.26	39.81	39.81	35.37	35.37	30.41	30.41	29.07	29.06	14.06	14.05		
1.6	Auxiliary Consumption excluding FGD	Mt	12.38	11.82	48.23	48.23	39.32	39.32	31.81	31.81	18.75	18.75	22.88	22.88	20.10	20.10	73.71	73.71	60.26	60.26	39.81	39.81	35.37	35.37	30.41	30.41	29.07	29.06	14.06	14.05		
1.7	Auxiliary Consumption for FGD	Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1.8	Total Auxiliary Consumption for FGD	Mt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1.9	Total Auxiliary Consumption	%	13.32%	13.32%	6.95%	6.95%	9.26%	9.26%	5.78%	5.78%	6.09%	6.09%	12.24%	12.24%	10.75%	10.75%	9.54%	9.54%	7.00%	7.00%	6.62%	6.62%	6.00%	6.00%	5.96%	5.96%	9.30%	9.30%	11.89%	11.89%		
1.10	Total Auxiliary Consumption (1.6 + 1.9)	Mt	12.38	11.82	48.23	48.23	39.32	39.32	31.81	31.81	18.75	18.75	22.88	22.88	20.10	20.10	73.71	73.71	60.26	60.26	39.81	39.81	35.37	35.37	30.41	30.41	29.07	29.06	14.06	14.05		
1.11	Net Generation (1.4 - 1.9)	Mt	88.14	88.14	443.87	443.87	354.04	354.04	305.10	305.10	168.10	168.10	699.83	699.83	712.28	712.28	254.67	254.67	206.24	206.24	208.65	208.65	214.16	214.16	1104.28	1104.28	111.94	111.88	1132.46	1132.46		
1.12	Heat Rate	kcal/kWh	2384.83	2384.83	2370.00	2370.00	2370.00	2370.00	2370.00	2370.00	2441.41	2441.41	2370.00	2370.00	2370.00	2370.00	2370.00	2370.00	2370.00	2370.00	2370.00	2370.00	2370.00	2370.00	2370.00	2370.00	2370.00	2370.00	2370.00	2370.00	2370.00	
1.13	Secondary Fuel Consumption	kcal/kWh	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	
1.14	Transit Loss for Domestic and Washed Coal	%	0.961%	0.961%	1.070%	1.070%	1.023%	1.023%	0.800%	0.800%	0.738%	0.738%	0.800%	0.800%	0.366%	0.366%	0.800%	0.800%	0.763%	0.763%	0.800%	0.800%	0.763%	0.763%	0.800%	0.800%	0.763%	0.763%	0.800%	0.800%		
1.15	Transit Loss for Imported Coal	%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
SIR coal component			2788.61	2773.27	2417.04	2370.18	2618.16	2618.12	2369.48	2370.30	2714.53	2744.48	2642.65	2678.36	2109.31	2370.18	2109.62	2423.27	2423.20	2425.27	2419.62	2425.27	2419.62	2425.27	2419.62	2425.27	2419.62	2425.27	2419.62	2425.27	2419.62	
2 Feed parameters for each primary and secondary fuel																																
Carbolic Value																																
2.1	Domestic Coal (As Billed)	kcal/kg	3918.00	3918	3984	3984	4007	4007	4007	4007	4039	4039	4006	4006	4006	4006	4121	4121	4091	4091	4091	4091	4096	4096	4091	4091	4088	4088	8666	8666	8659	8659
2.1.1	Imported Coal (As Billed)	kcal/kg	4750.00	4750	4711	4711	4649	4649	4649	4649	4649	4649	4649	4649	4649	4649	4649	4649	4649	4649	4649	4649	4649	4649	4649	4649	4649	4649	4649	4649	4649	
2.1.2	Wash Coal (As Billed)	kcal/kg	3967.00	3967	3970	3970	3970	3970	3970	3970	3970	3970	3970	3970	3970	3970	3970	3970	3970	3970	3970	3970	3970	3970	3970	3970	3970	3970	3970	3970	3970	
2.1.3	Domestic Coal (As Received) - Actual	kcal/kg	3315.00	3315.00	3335.00	3335.00	3352.00	3352.00	3352.00	3352.00	3352.00	3352.00	3352.00	3352.00	3352.00	3352.00	3352.00	3352.00	3352.00	3352.00	3352.00	3352.00	3352.00	3352.00	3352.00	3352.00	3352.00	3352.00	3352.00	3352.00	3352.00	
GCY loss between loading and unloading end - Domestic Actual			kcal/kg	603.00	603.00	649.00	649.00	955.00	955.00	955.00	955.00	917.00	917.00	792.00	792.00	730.00	730.00	592.00	592.00	593.00	593.00	596.00	596.00	596.00	596.00	596.00	596.00	596.00	596.00	596.00	596.00	
GCY loss between loading and unloading end as per direction in MERC Order in Case No.227 of 2022			kcal/kg	603.00	603.00	649.00	649.00	650.00	650.00	650.00	650.00	650.00	650.00	650.00	650.00	650.00	650.00	650.00	650.00	650.00	650.00	650.00	650.00	650.00	650.00	650.00	650.00	650.00	650.00	650.00	650.00	
Domestic coal As received GCY for FAC computation			kcal/kg	3315.00	3315.00	3335.00	3335.00	3357.00	3357.00	3357.00	3357.00	3359.00	3359.00	3356.00	3356.00	3356.00	3356.00	3359.00	3359.00	3359.00	3359.00	3359.00	3359.00	3359.00	3359.00	3359.00	3359.00	33				

MAHARASHTRA STATE POWER GENERATION CO. LTD.

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Email: rcgen@mahagenco.in

Regulatory & Commercial Dept.,
Prakashgad, 3rd Floor,
Bandra (E) Mumbai 400 051

Ref. No. RCD24/15/LT0349

Date: 07/03/2024

To

The Chief Engineer (Power Purchase)
Maharashtra State Electricity Distribution Company,
5th floor, Prakashgad, Bandra (E),
Mumbai, Maharashtra - 400051

Sub: Provisional Fuel Surcharge Adjustment Bill for supply of electricity for the month of February -2024 Part-I.

- Ref: 1) Energy Bill for Feb-2024 Dt.01.03.2024
2) MERC Order dated 31.03.2023 in Case No. 227 of 2022.
3) MERC order dated 10.06.2020 in Case No. 97 of 2020
4) Letter No. CE/PP/MSPGCL/NTPS/No.27008 Dated 08 September 2023.
5) MERC Order dated 01.02.2024 in Case No. 132 of 2023.

Sir,

MSPGCL has already raised energy bill for the month of Feb-2024 towards the supply of electricity to MSEDCL, vide letter under ref. 1 above, considering the energy charges approved by Hon'ble MERC in the order under ref. 2.

Computation methodology for FAC Part- I bill for the month of Feb-2024:

In view of the difficulties faced by MSPGCL on account of non- availability of certified GCV data for loading end coal due to COVID-19 lockdown situation and deviations in energy charge on account of usage of alternate coal, MSPGCL had approached Hon'ble MERC for necessary guidelines for raising the FAC bill for April-2020 and onwards till normalization of schedule of loading end coal GCV certificates.

Hon'ble Commission, vide order dated 10.06.2020 in the Case No. 97 of 2020, has directed following regarding the FAC billing.

"22. Therefore, MSPGCL Aug submit FAC bills to MSEDCL based on actual fuel cost and provisional GCV, which can be either based on mid-point of Declared grade GCV or GCV measured by MSPGCL's Testing Team. Although, the Commission has suggested two approaches for arriving at provisional GCV, MSPGCL Aug adopt any other better approach in consultation with MSEDCL for provisional billing. Bill for differential amount would be based on actual GCV as per CIMFR report to be raised on MSEDCL as and when actual data is available so that appropriate adjustment can be done in FAC submission in subsequent month by MSEDCL."

Accordingly, the tentative Normative Variable Cost for the month of Feb-2024 is calculated, based on actual costs; weighted averages for GCV data as directed vide MERC order in case no. 97 of 2020 and approved performance parameters for MSPGCL thermal stations as per MERC order in case no. 227 of 2022 except for gap allowed between 'As billed GCV & 'As Received GCV' for raw coal.

As per order dated 31.03.2023 in MSPGCL's petition for Mid term Review for 4th control period (Case no 227 of 2022) . Hon'ble commission had allowed "As billed" to "As Received " GCV gap as below

- 575 kcal/kg for Bhusawal # 3, Paras # 3, 4 & Parli #8.
- 625 kcal/kg for remaining units.

Against this order, MSPGCL had approached Hon'ble Commission for review (Case 132 of 2023). Hon'ble Commission, vide order dated 01.02.2024, on this petition, has now allowed 'As billed to 'As received' GCV gap of 650kcal/kg for raw coal at all stations. The extracts from relevant MERC order are as below;

"16.45 The Commission also notes that the Commission in its Order dated 1 March, 2021 on Review Petition filed on MYT Order under provisions of Power to Relax of MYT Regulations, 2019 has relaxed the GCV loss up to 650 kcal/kg (i.e., additional 350 kcal/kg over and above the GCV loss specified in MYT Regulations) for FY 2020-21. Hence, the GCV loss in excess of 650 kcal/kg cannot be allowed as this was the target specified for first year of the Control Period. Accordingly, the Commission relaxes the GCV loss by 350 kcal/kg and allows total GCV loss of up to 650 kcal/kg for FY 2023-24 and FY 2024-25 subject to following conditions:.....

16.46 Accordingly, the relaxed GCV loss permissible for these 2 years shall be as follows:

- FY 2023-24: Relaxation of 350 kcal/kg in loss of GCV in addition to 300 kCal/kg as per MYT Regulations, 2019....."

Accordingly, MSPGCL has considered 'As Billed to As Received' GCV gap of 650 kcal/kg for computation of this part I FAC bill for February 2024.

It is further to inform that since last few months Chandrapur TPS has started to take efforts to maintain separate stack for imported coal and to make separate measurement of such imported coal at bunkering and firing level. In case of raw coal & washed coal the measurement is on combined basis. Now, Chandrapur, Bhusawal, Khaperkheda & Nashik TPS has shared such segregated data for Feb'2024 for "As fired GCV" for (Raw coal+ Washed coal) and Imported coal instead of "As fired GCV" for total coal mix as was being shared previously. Accordingly for the present Part-I FAC bill for Feb 2024; RCD has computed the normative ECR for these 4 TPS by considering the separate "As fired GCV" for (Raw coal + Washed coal) and Imported coal and similarly applying the stacking loss margin separately for (Raw coal + Washed coal) and Imported coal.

Compensation for operation of units below normative AVF & above technical minimum:

The Regulation 34 of State Grid Code Regulations, 2020, has provided for claim for compensation on account of operation at or above the technical minimum but below the normative plant availability factor on account of grid security or due to the fewer schedules given by the buyer.

As per Regulations 34.2 and 34.3 of State Grid Code, 2020 MSPGCL is entitled to claim compensation for such operations up to technical minimum of 55% in the monthly FAC bills and during tariff filing process, on the basis of technical parameters during such period, duly supported by relevant data verified by SLDC.

In the present FAC Part-I bill for Feb-2024, MSPGCL has not included any claim for compensation on account of operating the units below the normative availability loads up to technical minimum of 55%. However, once the relevant data is compiled MSPGCL will raise the claim.

Similarly vide letter ref.4, MSEDCL has accepted for appropriate compensation for Nashik TPS for running all three units near technical minimum so as to support the grid in view of demand rise. MSPGCL will raise claim for such compensation through separate billing.

Provisional FAC Part-I bill for the month of Feb-2024:

Due to non-availability of A0 unit since 07.09.2022, GT-5 and GT-6 runs on Open cycle mode and B0 came in service from 20.11.2022, hence GT-7, GT-8 along with B0 runs on CCPP mode. The units are operated in different combinations (Open cycle mode & CCPP mode) as

per gas availability and MSEDCL requirement. The Regulation 46.16 & 46.7 of MERC Regulations, 2019, has provided operational parameters for open cycle and combined cycle. Accordingly, MSPGCL has considered the normative parameters for Uran for combined cycle operation and open cycle operation for the concerned period for present FAC bill.

Please find attached herewith Provisional FAC Part-I bill for MSPGCL thermal stations for supply of electricity for the month of Feb-2024 is Rs. - 26,91,54,895/- (In words, (-) **Twenty Six Crore Ninety One Lakhs Fifty Four Thousand Eight Hundred Ninety Five Only**)

Part (II) of the FAC bill for Feb-2024 for differential amount based on CIMFR Report as per methodology will be raised later on after receipt of CIMFR reports. Also, this bill is subject to amendments/ revision based on receipt orders that may be passed by MERC /APTEL or reason of any subsequent development at later stage.

Also as explained above, MSPGCL will claim compensation for Technical minimum operations during Feb-2024 once the relevant data is compiled.

Further it is to bring to your kind notice that Regulation 33.9 of the State Grid Code Regulations, 2020, provides following regarding revision in MoD stack published on the 15th of the month.

"33.9 MoD Stack uploaded on the 15th of the month Aug be subsequently revised by SLDC in the following circumstances:

- a) Commencement of supply of power by a generating unit under a new arrangement/bilateral agreement/Short term agreement in between period of MoD operation,*
- b) Revision of variable charges for preparing the MOD Stack due to Tariff Order issued by the Commission for state generating stations or by the Central Commission for central generating stations,*
- c) Impact of change in law in the PPAs as approved by the Commission."*

Therefore, it is requested to issue necessary directives for the adjustment of the above bill in respective Energy bill.

Thanking you,

Yours faithfully,


07/08/2024
Chief Engineer (RCD), MSPGCL

Encl.: As above

MAHARASHTRA STATE POWER GENERATION CO. LTD.

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Regulatory & Commercial Dept.

Prakashgad, 3rd Floor,

Bandra (E) Mumbai 400 051

Bill No	141/2023	Date:	07-03-2024	Due date:	05-04-2024
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Provisional Part-I Fuel Surcharge Adjustment bill for the Month of February 2024

THERMAL & GAS STATIONS

SR N O.	POWER STATION	ECR Considered for FAC (Rs/Kwh)	Calculated VC Rs/Kwh	Adjustment of FSA Rate (Rs./kWh)	Net Generation sent out (MU's)	FAC-I (Rs. Lakh)
		(a)	(b)	(c) = (b - a)	(d)	(e) = d X c X 10
1	BHUSAWAL (Unit 3)	4.408	4.888	0.480	87.242234	418.76272
2	BHUSAWAL (Unit 4-5)	3.710	4.108	0.398	447.817272	1782.31274
3	KHAPARKHEDA (Unit 1- 4)	4.197	3.437	-0.760	353.939305	-2689.93872
4	KHAPARKHEDA Unit 5	4.007	3.059	-0.948	305.144188	-2892.76690
5	NASHIK (Unit 3-5)	4.647	4.593	-0.054	153.600563	-82.94430
6	CHANDRAPUR (Unit 3-7)	4.103	4.286	0.183	699.472588	1280.03484
7	CHANDRAPUR (Unit- 8 & 9)	3.444	3.591	0.147	549.992874	808.48952
8	PARAS (Unit 3- 4)	3.483	3.632	0.149	295.036067	439.60374
9	PARALI (UNIT 6-7)	5.100	5.342	0.242	202.006534	488.85581
10	PARALI (UNIT 8)	5.016	5.334	0.318	101.883904	323.99081
11	KORADI (Unit 6)	3.319	3.148	-0.171	111.809693	-191.19458
12	KORADI (Unit-8,9 & 10)	3.084	3.140	0.056	1108.921552	620.99607
13	GTPS URAN (Combine cycle)	6.760	5.204	-1.556	192.657500	-2997.75070
14	GTPS URAN (Open cycle)	6.760	7.258			0.00000
TOTAL MSPGCL FAC BILL					4609.524274	-2691.54895

The provisional Part-I Fuel Surcharge Adjustment bill, for MSPGCL stations, to MSEDCL for the month of Feb-24 is withdrawal of Rs. Twenty Six Crore Ninety One Lakhs Fifty Four Thousand Eight Hundred Ninety Five Only



Chief Engineer
Regulatory & Commercial Dept.