

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

(*Effective from 16.05.2024 to 15.06.2024)

Sr. no.	Generating Station	OWNER/TYP E	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	11.0539	0.0000	11.0539
2	JGPS (RLNG)	CS	-	Gas	10.9647	0.0000	10.9647
3	Jindal Power Limited U1 (Dhule) to MSEDCL	STOA	50	Coal	8.5000	0.0000	8.5000
4	KAWAS (NAPM-COM GAS)	CS	-	Gas	8.1626	0.0000	8.1626
5	GANDHAR (NAPM-COM GAS)	CS	-	Gas	7.7675	0.0000	7.7675
6	Jindal Power Limited U2 (Dhule) to MSEDCL	STOA	80	Coal	7.7500	0.0000	7.7500
7	Jindal Power Limited U1 (Dhule) to MSEDCL	STOA	20	Coal	7.7500	0.0000	7.7500
8	IEPL TO MSEDCL	STOA	50	Coal	7.6600	0.0000	7.6600
9	Uran GTPS (Open cycle operation)	MSPGCL	-	Gas	7.2480	0.0000	7.2480
10	KAWAS (APM GAS)	CS	200	Gas	5.9215	0.0000	5.9215
11	GANDHAR (APM GAS)	CS	204	Gas	5.8904	0.0000	5.8904
12	Uran GTPS (Combined cycle operation)	MSPGCL	840	Gas	5.1960	0.0000	5.1960
13	Parali Unit - 06 & 07	MSPGCL	500	Coal	5.1090	0.0000	5.1090
14	Parali Unit -08	MSPGCL	250	Coal	5.1010	0.0000	5.1010
15	Nasik Unit - 03 to 05	MSPGCL	630	Coal	4.9550	0.0000	4.9550
16	Bhusawal Unit - 03	MSPGCL	210	Coal	4.9490	0.0000	4.9490
17	APML U-1,4 & 5 (440 MW PPA)	IPP	440	Coal	2.3998	2.4917	4.8915
18	APML, Unit 1,4 & 5 (1200 MW PPA)	IPP	1200	Coal	2.3398	2.4917	4.8315
19	APML, Unit 1,4 & 5 (125 MW PPA)	IPP	125	Coal	2.3398	2.4917	4.8315
20	Khargone	CS	85	Coal	4.8146	0.0000	4.8146
21	Solapur STPS	CS	642	Coal	4.7217	0.0000	4.7217
22	APML, Unit 2 & 3 (1320 MW PPA)	IPP	1320	Coal	1.7040	2.6252	4.3292
23	Chandrapur Unit - 03 to 07	MSPGCL	1920	Coal	4.2960	0.0000	4.2960
24	JSW U1, Jaigad	IPP	300	Coal	4.2900	0.0000	4.2900
25	CGPL	CS	760	Coal	4.2626	0.0000	4.2626
26	Bhusawal Unit - 04 & 05	MSPGCL	1000	Coal	4.1600	0.0000	4.1600
27	MSTPS-I	CS	394	Coal	4.0289	0.0000	4.0289
28	MSTPS-II	CS	531	Coal	3.9937	0.0000	3.9937
29	Paras Unit - 03 & 04	MSPGCL	500	Coal	3.7350	0.0000	3.7350
30	Gadarwara	CS	46	Coal	3.6917	0.0000	3.6917
31	Chandrapur Unit - 08,09	MSPGCL	1000	Coal	3.6110	0.0000	3.6110
32	Khaperkheda Unit - 01 to 04	MSPGCL	840	Coal	3.5850	0.0000	3.5850
33	IEPL TO MSEDCL	STOA	180	Coal	3.5070	0.0000	3.5070
34	Koradi Unit - 06	MSPGCL	210	Coal	3.3550	0.0000	3.3550
35	Koradi Unit - 08 to 10	MSPGCL	1980	Coal	3.2300	0.0000	3.2300
36	Khaperkheda Unit - 05	MSPGCL	500	Coal	3.1660	0.0000	3.1660
37	SWPGPL TO MSEDCL	LTOA	240	Coal	2.5198	0.5419	3.0617
38	RattanIndia Power Ltd, Amravati	IPP	1200	Coal	2.3696	0.5120	2.8816
39	EMCO	CS	200	Coal	2.8437	0.0000	2.8437
40	KHTPS-II	CS	148	Coal	2.6465	0.0000	2.6465
41	VSTP-I	CS	432	Coal	1.9323	0.0000	1.9323
42	VSTPS-V	CS	161	Coal	1.8609	0.0000	1.8609
43	VSTP-II	CS	336	Coal	1.8304	0.0000	1.8304
44	VSTPS-III	CS	275	Coal	1.8051	0.0000	1.8051
45	VSTP-IV	CS	294	Coal	1.7855	0.0000	1.7855
46	SSTPS-II	CS	274	Coal	1.7110	0.0000	1.7110
47	SSTPS-I	CS	556	Coal	1.6638	0.0000	1.6638
48	KSTPS I AND II	CS	635	Coal	1.5205	0.0000	1.5205
49	Lara	CS	114	Coal	1.5116	0.0000	1.5116
50	KSTPS-III	CS	120	Coal	1.4771	0.0000	1.4771
DECENTRALISED MOD STACK FOR AEML							
1	ADTPS U-1 & 2	DTPS	500	Coal	3.8775	0.0000	3.8775
DECENTRALISED MOD STACK FOR TPCL-D							
1	TPC U-7 (RLNG)-NAPM	TATA	xxx	Gas	9.6440	0.0000	9.6440
2	TPC U-5	TATA	500	Coal/Oil/Gas	5.7120	0.0000	5.7120
3	TPC U-8	TATA	250	Coal	5.6170	0.0000	5.6170
4	TPC U-7 (APM) *	TATA	180	Gas	5.0280	0.0000	5.0280
DECENTRALISED MOD STACK FOR BEST							
1	TPC U-7 (RLNG)	TATA	xxx	Gas	9.6440	0.0000	9.6440
2	TPC U-5	TATA	500	Coal/Oil/Gas	5.7120	0.0000	5.7120
3	TPC U-8	TATA	250	Coal	5.6170	0.0000	5.6170
4	TPC U-7 (APM) *	TATA	180	Gas	5.0280	0.0000	5.0280
5	SWPGL TO BEST	MTOA	100	Coal	2.2700	0.0000	2.2700
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 mahasid.in website on dated 15.05.2024

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

4) Hydro generation is not considered for MOD.

5) Gas and RE and Nuclear Generation is considered as MUST RUN except TPCU-7 RLNG.

MAHARASHTRA STATE POWER GENERATION CO. LTD.

PH: 26474211, 26472131
FAX: 91-22-26580643
Email: rcgen@mahagenco.in

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

Ref No: RCD24/45-A/LT0573

Date: 01-May-24

To,

The Chief Engineer (Power Purchase)

Maharashtra State Electricity Distribution Company,
5th floor, Prakashgad, Bandra (E),
Mumbai, Maharashtra - 400051

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

Dear Sir,

Please find attached herewith the monthly energy bill for the Month of April 2024, Bill No. (001/2024) for supply of Power from for MSPGCL's Thermal & Gas Power Stations to MSEDCL.

Mahagenco's Thermal & Gas Power Stations have supplied Total 5033.759538 MUs to MSEDCL, in the month of April 2024. Net Energy Bill amount for MAHAGENCO's Thermal & Gas Power Stations is Rs. Crores; Bill amount in words Rs. Two Thousand Seven Hundred Eighty Seven Crore Seventy Two Lakhs Fifty Three Thousand Nine Hundred and Three Only (E & OE)

This bill is raised as per the clean working model for 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 Apr-2024 as the First month in High 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. Billing for the remote auxiliary consumptions and supply provided by MSPGCL (to other agencies) on behalf of MSEDCL will be carried out separately.

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.

It is requested to issue necessary directives for the payment of the above.

Thanking you, (E & OE)

Enclosure: Bill No: 001/2024

Regard's


Chief Engineer (RCD), MSPGCL

MAHARASHTRA STATE POWER GENERATION CO. LTD.

Regulatory & Commercial Dept.

Prakashgad, 3rd Floor,

Bandra (E) Mumbai 400 051

PH: 26472211, 26472131

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Energy Bill No: 001/2024		Bill Date: 01-05-2024				Due date: 30-05-2024			
Energy Bill of MAHAGENCO for the Month of Apr 2023 (From 01.04.2023 (00.00Hrs) to 30.04.2023(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 DISALLOWANCE UP TO 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)	92.5277260	4.461	4127.66186	1481.87728	5609.53914	-4.35123	1486.22851	5613.89037
2	BHUSAWAL (Unit 4-5)	504.5460890	3.746	18900.29649	8713.29190	27613.58839	686.40554	8026.88636	26927.18285
3	KHAPARKHEDA (Unit 1- 4)	433.0556310	4.218	18266.28652	5344.75006	23611.03658	-335.77647	5680.52653	23946.81305
4	KHAPARKHEDA U # 5	291.8276040	4.019	11728.55140	4822.59231	16551.14371	0.00000	4822.59231	16551.14371
5	NASHIK (Unit 3-5)	266.2021550	4.641	12354.44201	4104.28997	16458.73198	173.02518	3931.26479	16285.70680
6	CHANDRAPUR (Unit 3-7)	863.6817350	4.097	35385.04068	9452.65463	44837.69531	-1113.39026	10566.04489	45951.08557
7	CHANDRAPUR (Unit- 8 & 9)	585.0919820	3.442	20138.86602	10235.54230	30374.40832	0.00000	10235.54230	30374.40832
8	PARAS (Unit 3- 4)	280.2498230	3.510	9836.76879	4688.60883	14525.37762	-72.21944	4760.82827	14597.59706
9	PARLI (Unit 6- 7)	237.0463690	5.096	12079.88296	4018.80666	16098.68962	0.00000	4018.80666	16098.68962
10	PARLI (Unit 8)	107.2122370	5.052	5416.36221	3205.51204	8621.87425	0.91471	3204.59733	8620.95954
11	KORADI (Unit 6)	99.2339350	3.368	3342.19893	2568.81829	5911.01722	0.00000	2568.81829	5911.01722
12	KORADI (Unit- 8,9 & 10)	1060.5782520	3.119	33079.43568	16420.98683	49500.42251	-1669.59659	18090.58342	51170.01910
13	GTPS URAN (Unit 5 -10)	212.5060000	6.760	14365.40560	1062.58224	15427.98784	-1296.03798	2358.62022	16724.02582
TOTAL THERMAL		5033.759538		199021.19915	76120.31334	275141.51249	-3631.02654	79751.33988	278772.53903
PROVISIONAL ENERGY BILL FOR SUPPLY OF ENERGY FROM MAHAGENCO's THERMAL & GAS POWER STATIONS TO MAHAVITARAN FOR THE MONTH OF April 2024									278772.53903

Bill amount in words Rs. Two Thousand Seven Hundred Eighty Seven Crore Seventy Two Lakhs Fifty Three Thousand Nine Hundred and Three Only (E & OE)

(Signature)
Chief Engineer,
Regulatory & Commercial Dept.

MAHARASHTRA STATE POWER GENERATION CO. LTD.

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Bandra (E) Mumbai 400 051

Calculation for Cumulative AVF Based AFC Disallowance upto April 2024

Month: Apr-24
Season: high demand season
Month no. in the season: 1

SR. NO.	POWER STATION	Approved Annual Fixed Charge for target AVF (Rs.in Lakhs)	AFC upto First month of high 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 April 2024 (%)	Actual off-peak period Cumulative AVF upto April 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 April 2024 (Rs. Lakhs.)
aa	bb	cc	dd	ee	ff	gg	hh	ii	jj	kk	ll = jj + kkk	mm = dd - ll	nn	oo = mm - nn
1	BHUSAWAL (Unit 3)	16708.74220	1392.39518	80.00%	278.47904	1113.91615	88.205%	83.316%	278.47904	1113.91615	1392.39518	0.0000	4.35123	-4.35123
2	BHUSAWAL (Unit 4-5)	104245.50282	8687.12524	85.00%	1737.42505	6949.70019	79.519%	77.975%	1625.39179	6375.32791	8000.71970	686.40554	0.00000	686.40554
3	KHAPARKHEDA (Unit 1-4)	66203.02397	5516.91866	85.00%	1103.38373	4413.53493	79.984%	79.761%	1038.27111	4141.50541	5179.77652	337.14214	672.91861	-335.77647
4	KHAPARKHEDA U # 5	54285.10777	4523.75898	85.00%	904.75180	3619.00718	85.995%	86.307%	904.75180	3619.00718	4523.75898	0.00000	0.00000	0.00000
5	NASHIK (Unit 3-5)	47893.47967	3991.12331	80.00%	798.22466	3192.89864	76.451%	76.552%	762.81342	3055.28471	3818.09813	173.02518	0.00000	173.02518
6	CHANDRAPUR (Unit 3-7)	132275.93590	11022.99466	80.00%	2204.59893	8818.39573	78.309%	75.448%	2157.99922	8316.62901	10474.62823	548.36643	1661.75669	-1113.39026
7	CHANDRAPUR (Unit- 8 & 9)	122255.50757	10187.95896	85.00%	2037.59179	8150.36717	87.888%	87.699%	2037.59179	8150.36717	10187.95896	0.00000	0.00000	0.00000
8	PARAS (Unit 3- 4)	56701.93926	4725.16161	85.00%	945.03232	3780.12928	88.905%	88.301%	945.03232	3780.12928	4725.16161	0.00000	72.21944	-72.21944
9	PARALI (UNIT 6-7)	46863.67996	3905.30666	85.00%	781.06133	3124.24533	97.762%	94.325%	781.06133	3124.24533	3905.30666	0.00000	0.00000	0.00000
10	PARALI (UNIT 8)	37621.14446	3135.09537	85.00%	627.01907	2508.07630	86.393%	84.969%	627.01907	2507.16159	3134.18066	0.91471	0.00000	0.91471
11	KORADI (Unit 6)	26952.81952	2246.06829	72.00%	449.21366	1796.85463	76.773%	73.805%	449.21366	1796.85463	2246.06829	0.00000	0.00000	0.00000
12	KORADI (Unit- 8, 9 & 10)	223955.77537	18662.98128	85.00%	3732.59626	14930.38502	79.042%	79.350%	3470.96322	13937.95355	17408.91676	1254.06452	2923.66111	-1669.59659
13	GTPS URAN (Unit 5-10)	28191.44272	2349.28689	38.11%	469.85738	1879.42951	54.206%	57.153%	469.85738	1879.42951	2349.28689	0.00000	1296.03798	-1296.03798
	TOTAL THERMAL	964154.10119	80346.17509		16069.23502	64276.94008			15548.44515	61797.81144	77346.25657	2999.91852	6630.94506	-3631.02654
	(E & OF)													

(Signature)
Chief Engineer,
Regulatory & Commercial Dept.

Copy s.w.rs. to:

- 1) Hon'ble CMD (MSPGCL)
- 2) Director (Operations / Finance), MSPGCL
- 3) Director (Operations / Finance), MSEDCL
- 4) Executive Director (O&M-I/II), MSPGCL

Copy f.w.cs. to:

- 5) CGM (Finance / Accounts), MSPGCL
- 6) CE (Works), MSPGCL

Copy to:

- 7) GM (CA / HO Accounts), MSPGCL
- 8) GM (PP), MSEDCL
- 10) Chief Manager (IF), MSPGCL

S. No.	Particulars	Units	Bhusawal	Bhusawal	Bhusawal	Bhusawal	Shaperkhed	Shaperkheda	Shaperkheda	Nashik	Nashik	Chandrapur	Chandrapur	Chandrapur	Chandrapur	Paras Units	Paras Units	Part Units 6 & 7	Part Units 6 & 7	Part Unit 8	Part Unit 8	Koradi 6	Koradi 6	Koradi Units R, 7 & 10	Koradi Units R, 7 & 10	URAN	URAN	URAN	URAN
1	Operational parameters		Actual	Normative	Actual	Normative	Actual	Normative	Actual	Normative	Actual	Normative	Actual	Normative	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual	Actual
1.1	Total Capacity	MW	210	210	1800	1800	8400	8400	500.0	500.0	630.0	630.0	1520	1520	1000	1000	600	600	500	500	250	250	420	420	1000	1000	472	472	
1.2	Availability	%	84.17%	84.17%	79.20%	79.20%	79.20%	79.20%	82.26%	82.26%	79.20%	79.20%	82.26%	82.26%	82.26%	82.26%	82.26%	82.26%	82.26%	82.26%	82.26%	82.26%	82.26%	82.26%	82.26%	82.26%	82.26%	82.26%	
1.3	PLP	%	68.90%	68.90%	74.12%	74.12%	79.04%	79.04%	82.26%	82.26%	69.20%	69.20%	82.26%	82.26%	82.26%	82.26%	82.26%	82.26%	82.26%	82.26%	82.26%	82.26%	82.26%	82.26%	82.26%	82.26%	82.26%	82.26%	
1.4	Costs Generation	Rs./kWh	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	
1.5	Auxiliary Consumption excluding FGD	%	12.33%	11.0%	7.08%	6.5%	11.75%	10.75%	6.54%	6.5%	11.75%	10.75%	6.54%	6.5%	11.75%	10.75%	6.54%	6.5%	11.75%	10.75%	6.54%	6.5%	11.75%	10.75%	6.54%	6.5%	11.75%	10.75%	
1.6	Auxiliary Consumption excluding FGD	MU	13.68	11.64	38.84	32.48	47.78	40.69	20.33	18.66	36.69	33.54	87.93	73.61	35.03	36.89	33.12	28.83	30.41	24.78	14.04	10.18	12.78	12.07	73.94	68.46	5.64	6.12	
1.7	Auxiliary Consumption for FGD	MU																											
1.80	Auxiliary Consumption for FGD	%	12.33%	11.0%	7.08%	6.5%	11.75%	10.75%	6.54%	6.5%	11.75%	10.75%	6.54%	6.5%	11.75%	10.75%	6.54%	6.5%	11.75%	10.75%	6.54%	6.5%	11.75%	10.75%	6.54%	6.5%	11.75%	10.75%	
1.9	Total Auxiliary Consumption (1 + 1.6 + 1.8)	MU	13.68	11.64	38.84	32.48	47.78	40.69	20.33	18.66	36.69	33.54	87.93	73.61	35.03	36.89	33.12	28.83	30.41	24.78	14.04	10.18	12.78	12.07	73.94	68.46	5.64	6.12	
1.10	Total Auxiliary Consumption (1 + 1.6 + 1.8)	MU	93.90	94.53	334.54	333.81	423.63	423.63	209.62	209.62	273.76	273.76	273.76	273.76	273.76	273.76	273.76	273.76	273.76	273.76	273.76	273.76	273.76	273.76	273.76	273.76	273.76	273.76	
1.11	Net Generation ((1 - 1.4) - 1.10)	MW	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	
1.12	Heat Rate	kcal/kWh	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	2781.789	
1.13	Secondary Fuel Oil Consumption	mt/kWh	6.23	1.49	0.60	0.50	8.52	1.20	0.43	0.40	1.03	1.00	8.53	1.00	0.23	0.50	0.77	0.50	0.48	0.50	0.96	0.50	1.43	2.81	0.49	0.50	2083.02	2083.02	
1.14	Transit Loss for washed coal	%	12.33%	6.00%	1.30%	0.80%	6.00%	6.00%	6.00%	6.00%	6.00%	6.00%	6.00%	6.00%	6.00%	6.00%	6.00%	6.00%	6.00%	6.00%	6.00%	6.00%	6.00%	6.00%	6.00%	6.00%	6.00%	6.00%	
1.15	Transit Loss for washed 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%	
1.16	SGR coal component		2781.68	2773.27	2376.23	2376.10	2597.29	2614.72	2367.33	2376.30	2743.78	2744.53	2675.47	2676.45	2358.43	2376.23	2356.23	2425.27	2423.10	2425.27	2422.53	2425.27	2369.99	2323.41	2314.63	2225.27			
2	Fact parameters (for the primary and secondary fuel)																												
2.1	Domestic Coal (As Billed)	kg/kg	3033	3033	3034	3034	3050	3050	3050	3050	3053	3053	4074	4074	4057	4057	4045	4045	4073	4073	4074	4074	3940	3940	4082	4082	8676.789	8676.789	
2.1.1	Domestic Coal (As Billed)	kg/kg	4750	4750	4727	4727	4673	4673	4673	4673	4621	4621	4683	4683	4683	4683	0	0	0	0	0	0	0	0	4652	4652	8663.017	8663.017	
2.1.2	Domestic Coal (As Billed)	kg/kg	3033	3033	3034	3034	3050	3050	3050	3050	3053	3053	4074	4074	4057	4057	4045	4045	4073	4073	4074	4074	3940	3940	4082	4082	8676.789	8676.789	
2.1.3	Domestic Coal (As Billed)	kg/kg	4750	4750	4727	4727	4673	4673	4673	4673	4621	4621	4683	4683	4683	4683	0	0	0	0	0	0	0	0	4652	4652	8663.017	8663.017	
2.1.4	Domestic Coal (As Billed)	kg/kg	3033	3033	3034	3034	3050	3050	3050	3050	3053	3053	4074	4074	4057	4057	4045	4045	4073	4073	4074	4074	3940	3940	4082	4082	8676.789	8676.789	
2.1.5	Domestic Coal (As Billed)	kg/kg	4750	4750	4727	4727	4673	4673	4673	4673	4621	4621	4683	4683	4683	4683	0	0	0	0	0	0	0	0	4652	4652	8663.017	8663.017	
2.1.6	Domestic Coal (As Billed)	kg/kg	3033	3033	3034	3034	3050	3050	3050	3050	3053	3053	4074	4074	4057	4057	4045	4045	4073	4073	4074	4074	3940	3940	4082	4082	8676.789	8676.789	
2.1.7	Domestic Coal (As Billed)	kg/kg	4750	4750	4727	4727	4673	4673	4673	4673	4621	4621	4683	4683	4683	4683	0	0	0	0	0	0	0	0	4652	4652	8663.017	8663.017	
2.1.8	Domestic Coal (As Billed)	kg/kg	3033	3033	3034	3034	3050	3050	3050	3050	3053	3053	4074	4074	4057	4057	4045	4045	4073	4073	4074	4074	3940	3940	4082	4082	8676.789	8676.789	
2.1.9	Domestic Coal (As Billed)	kg/kg	4750	4750	4727	4727	4673	4673	4673	4673	4621	4621	4683	4683	4683	4683	0	0	0	0	0	0	0	0	4652	4652	8663.017	8663.017	
2.1.10	Domestic Coal (As Billed)	kg/kg	3033	3033	3034	3034	3050	3050	3050	3050	3053	3053	4074	4074	4057	4057	4045	4045	4073	4073	4074	4074	3940	3940	4082	4082	8676.789	8676.789	
2.1.11	Domestic Coal (As Billed)	kg/kg	4750	4750	4727	4727	4673	4673	4673	4673	4621	4621	4683	4683	4683	4683	0	0	0	0	0	0	0	0	4652	4652	8663.017	8663.017	
2.1.12	Domestic Coal (As Billed)	kg/kg	3033	3033	3034	3034	3050	3050	3050	3050	3053	3053	4074	4074	4057	4057	4045	4045	4073	4073	4074	4074	3940	3940	4082	4082	8676.789	8676.789	
2.1.13	Domestic Coal (As Billed)	kg/kg	4750	4750	4727	4727	4673	4673	4673	4673	4621	4621	4683	4683	4683	4683	0	0	0	0	0	0	0	0	4652	4652	8663.017	8663.017	
2.1.14	Domestic Coal (As Billed)	kg/kg	3033	3033	3034	3034	3050	3050	3050	3050	3053	3053	4074	4074	4057	4057	4045	4045	4073	4073	4074	4074	3940	3940	4082	4082	8676.789	8676.789	
2.1.15	Domestic Coal (As Billed)	kg/kg	4750	4750	4727	4727	4673	4673	4673	4673	4621	4621	4683	4683	4683	4683	0	0	0	0	0	0	0	0	4652	4652	8663.017	8663.017	
2.1.16	Domestic Coal (As Billed)	kg/kg	3033	3033	3034	3034	3050	3050	3050	3050	3053	3053	4074	4074	4057	4057	4045	4045	4073	4073	4074	4074	3940	3940	4082	4082	8676.789	8676.789	
2.1.17	Domestic Coal (As Billed)	kg/kg	4750	4750	4727	4727	4673	4673	4673	4673	4621	4621	4683	4683	4683	4683	0	0	0	0	0	0	0	0	4652	4652	8663.017	8663.017	
2.1.18	Domestic Coal (As Billed)	kg/kg	3033	3033	3034	3034	3050	3050	3050	3050	3053	3053	4074	4074	4057	4057	4045	4045	4073	4073	4074	4074	3940	3940	4082	4082	8676.789	8676.789	
2.1.19	Domestic Coal (As Billed)	kg/kg	4750	4750	4727	4727	4673	4673	4673	4673	4621	4621	4683	4683	4683	4683	0	0	0	0	0	0	0	0	4652	4652	8663.017	8663.017	
2.1.20	Domestic Coal (As Billed)	kg/kg	3033	3033	3034	3034	3050	3050	3050	3050	3053	3053	4074	4074	4057	4057	4045	4045	4073	4073	4074	4074	3940	3940	4082	4082	8676.789	8676.789	
2.1.21	Domestic Coal (As Billed)	kg/kg	4750	4750	4727	4727	4673	4673	4673	4673	4621	4621	4683	4683	4683	4683	0	0	0	0	0	0	0	0	4652	4652	8663.017	8663.017	
2.1.22	Domestic Coal (As Billed)	kg/kg	3033	3033	3034	3034	3050	3050	3050	3050	3053	3053	4074	4074	4057	4057	4045	4045	4073	4073	4074	4074	3940	3940	4082	4082	8676.789	8676.789	
2.1.23	Domestic Coal (As Billed)	kg/kg	4750	4750	4727	4727	4673	4673	4673	4673	4621	4621	4683	4683	4683	4683	0	0	0	0	0	0	0	0	4652	4652	8663.017	8663.017	
2.1.24	Domestic Coal (As Billed)	kg/kg	3033	3033	3034	3034	3050	3050	3050	3050	3053	3053	4074	4074	4057	4057	4045	4045	4073	4073	4074	4074	3940	3940	4082	4082	8676.789	8676.789	
2.1.25	Domestic Coal (As Billed)	kg/kg	4750	4750	4727	4727	4673	4673	4673	4673	4621	4621	4683	4683	4683	4683	0	0	0	0	0	0	0	0	4652	4652	8663.017	8663.017	
2.1.26	Domestic Coal (As Billed)	kg/kg	3033	3033	3034	3034	3050	3050	3050	3050	3053	3053	4074	4074	4057	4057	4045	4045	4073	4073	4074	4074	3940	3940	4082	4082	8676.789	8676.789	
2.1.27	Domestic Coal (As Billed)	kg/kg	4750	4750	4727	4727	4673	4673																					

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/LT0637

Date: 10/05/2024

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 Apr -2024 Part-I.

- Ref: 1) Energy Bill for Apr-2024 Dt.01.05.2024
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 Apr-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 Apr-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 may 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 may 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 Apr-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 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*
- *FY 2024-25: 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 Apr 2024.

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 Apr-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.

Provisional FAC Part-I bill for the month of Apr-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 Apr-2024 is Rs. -1,84,03,790/- (In words, withdrawal of Rs. One Crore Eighty Four Lakhs Three Thousand Seven Hundred Ninety Only).

Part (II) of the FAC bill for Apr-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

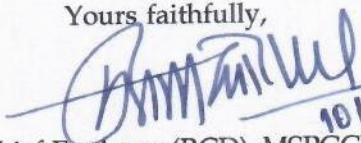
/APTEL or reason of any subsequent development at later stage.

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

Therefore, it is requested to issue necessary directives for the adjustment of the above bill in the respective Energy Bill as per the due date mentioned herewith.

Thanking you,

Yours faithfully,


10/10/2024
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

016/2024

Date:

10-05-2024

Due
date:

08-06-2024

Provisional Part-I Fuel Surcharge Adjustment bill for the Month of Apr 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)	4.461	4.949	0.488	92.527726	451.53530
2	BHUSAWAL (Unit 4-5)	3.746	4.160	0.414	504.546089	2088.82081
3	KHAPARKHEDA (Unit 1- 4)	4.218	3.585	-0.633	433.055631	-2741.24214
4	KHAPARKHEDA Unit 5	4.019	3.166	-0.853	291.827604	-2489.28946
5	NASHIK (Unit 3-5)	4.641	4.955	0.314	266.202155	835.87477
6	CHANDRAPUR (Unit 3-7)	4.097	4.296	0.199	863.681735	1718.72665
7	CHANDRAPUR (Unit- 8 & 9)	3.442	3.611	0.169	585.091982	988.80545
8	PARAS (Unit 3- 4)	3.510	3.735	0.225	280.249823	630.56210
9	PARALI (UNIT 6-7)	5.096	5.109	0.013	237.046369	30.81603
10	PARALI (UNIT 8)	5.052	5.101	0.049	107.212237	52.53400
11	KORADI (Unit 6)	3.368	3.355	-0.013	99.233935	-12.90041
12	KORADI (Unit-8,9 & 10)	3.119	3.230	0.111	1060.578252	1177.24186
13	GTPS URAN (Combine cycle)	6.760	5.196	-1.564	192.619500	-3012.56898
14	GTPS URAN (Open cycle)	6.760	7.248	0.488	19.886500	97.04612
	TOTAL MSPGCL FAC BILL				5033.759538	-184.03790

The provisional Part-I Fuel Surcharge Adjustment bill, for MSPGCL stations, to MSEDCL for the month of Apr-24 is withdrawal of Rs. One Crore Eighty Four Lakhs Three Thousand Seven Hundred Ninety Only


10/05/2024
Chief Engineer
Regulatory & Commercial Dept.