

MADHYA PRADESH ELECTRICITY REGULATORY COMMISSION

BHOPAL

Sub: Corrigendum to the order issued by the Commission on 19th May' 2021 in petition No. 53/2020 for determination of Multi-year Tariff of MPPGCL thermal and hydro power stations for the control period FY 2019-20 to FY 2023-24.

Petition No. 53 of 2020

ORDER

(Date of Order: 9th September' 2021)

The Managing Director,
M.P. Power Generating Co. Ltd.
Block No. 9, Shakti Bhawan, Vidut Nagar,
Rampur, Jabalpur – 482 008

- **Petitioner**

Vs.

(1) M.P. Power Management Company Ltd.,
Block No. 15, Shakti Bhawan, Rampur, Jabalpur – 482008

(2) M. P. Power Transmission Company Ltd.,
Shakti Bhawan, Rampur, Jabalpur – 482008.

(3) Rajasthan Rajya Vidyut Prasaran Nigam Ltd.,
Vidyut Bhawan, Janpath, Jaipur – 302 005

(4) Uttar Pradesh Power Corporation Ltd.,
Shakti Bhawan, 14 Ashok Marg, Lucknow

(5) MSEB (Holding Co) & Maharashtra State Transmission Co. Ltd.,
Parkashganga Plot No. C-19, E-Block, Bandra-Kurla Complex,
Bandra (E), Mumbai – 400 051

- **Respondents**

The Commission vide order dated 19.05.2021 in petition No. 53/2020 determined Multi-Year Tariff for thermal and hydel power stations of M.P. Power Generating Company Limited Jabalpur. It is subsequently observed that the Normative Annual Plant Availability Factor (NAPAF) of Silpara Hydro Power Station and Gross Station Heat Rate of Shri Singaji Thermal Power Project (SSTPP) PH-2 were erroneously mentioned as 90% and 2175 kCal/kWh due to inadvertent error. Therefore, as per provisions under MPERC (Terms and Conditions for Determination of Generation Tariff) Regulations, 2020, the following corrections with regard to NAPAF of Silpara Hydro Power Station and Gross Station Heat Rate of Shri Singaji Thermal Power Project (SSTPP) PH-2 are hereby made in Commission's order dated 19.05.2021 in petition No. 53 of 2020 for determination of Multi-year Tariff of thermal and hydro power stations of M.P. Power Generating Company Ltd., Jabalpur:

- a) Normative Plant Availability Factor (NAPAF) of Silpara HPS in Table 34 at Sr. No. 13 be read as 85% as per MPERC (Terms and Conditions for Determination of Generation Tariff) Regulations, 2020.

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- b) The Gross Station Heat Rate of SSTPP PH-II in Table 39 at page 92 and in Table at para 136 be read as 2185.69 kCal/kWh as per Regulations 49.3 (C)(ii) of MPERC (Terms and Conditions for Determination of Generation Tariff) Regulations, 2020. Due to aforesaid corrections in Gross Station Heat Rate of SSTPP PH-2, consequential changes in the relevant tables of the aforesaid order shall be as per Appendix-I annexed with this order.

Ordered accordingly.

(Shashi Bhushan Pathak)
Member

(Mukul Dhariwal)
Member

(S.P.S Parihar)
Chairman

i. **Table No. 26 at page 65 of the order:
Cost of Coal for 60 Days for Working Capital of SSTPP PH-2**

Particular	Units	SSTPP PH-2
Installed Capacity	MW	1320
NAPAF	%	85%
GSHR	KCal/kWh	2185.69
Gross Generation	MUs	9828.72
GCV of Coal	KCal/Kg	3499
Sp. Coal Consumption	kg/kWh	0.623
Annual Coal Consumption	MT	6125576
60 days Coal Stock	MT	1020929
Weighted Average Rate of Coal	Rs./MT	4211
Coal Cost (60 Days stock)	Rs in Cr.	429.91

ii. **At Serial No. 7 of Table No. 30 at page 68-70 of the order:
45 Days Receivables for working Capital (year Wise) (Rs in Cores):**

Sr. No.	Power Station	45 Days Fixed Charges	45 Days Energy Charges	Receivable 45 days
FY 2019-20				
7	SSTPP PH- 2	175.48	319.65	495.12
	Total Thermal	591.49	1123.87	1715.37
	Total Hydro	32.48	-	32.48
	Total	623.98	1123.87	1747.85
FY 2020-21				
7	SSTPP PH-2	171.67	319.65	491.32
	Total Thermal	581.30	1123.87	1705.18
	Total Hydro	31.77	-	31.77
	Total	613.08	1123.87	1736.95
FY 2021-22				
7	SSTPP PH-2	168.43	319.65	488.08
	Total Thermal	566.56	1123.87	1690.43
	Total Hydro	32.22	-	32.22
	Thermal	598.78	1123.87	1722.65
FY 2022-23				
7	SSTPP PH-2	165.23	319.65	484.88
	Total Thermal	557.00	1123.87	1680.87
	Total Hydro	32.66	-	32.66
	Total	589.66	1123.87	1713.54
FY 2023-24				
7	SSTPP PH-2	161.63	319.65	481.28
	Total Thermal	547.24	1123.87	1671.11
	Total Hydro	33.04	-	33.04
	Total	580.27	1123.87	1704.15

- iii. **Table No. 32 at page 74 of the order:**
Interest on working capital allowed for SSTPP PH-2 (Rs in Cores):

Particulars	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24
Cost of Coal	429.91	429.91	429.91	429.91	429.91
Cost of Secondary Fuel Oil	3.22	3.22	3.22	3.22	3.22
Operation & Maintenance	22.29	23.07	23.88	24.72	25.59
Maintenance Spares	53.49	55.36	57.31	59.32	61.41
Receivables	495.12	491.32	488.08	484.88	481.28
Working Capital	1004.03	1002.88	1002.41	1002.05	1001.40
Bank Rate	12.05%	11.25%	11.25%	11.25%	11.25%
Interest on Working Capital	120.99	112.82	112.77	112.73	112.66

- iv. **At Sr. No. 7 of Table No. 33 at page 76 of the order:**
Interest on Working capital considered (Rs in Cores)

Sr. No	Power Stations	Interest on Working Capital Allowed				
		FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24
7	SSTPS PH-2	120.99	112.82	112.77	112.73	112.66
	Thermal	435.24	406.67	406.54	407.06	407.60
	Hydel	6.83	6.39	6.55	6.70	6.84
	Total	442.07	413.07	413.09	413.75	414.44

- v. **Table No. 35 at page 81 of the order:**
Summary of Power Station-Wise Annual Capacity (fixed) Charges

SSTPP PH-2 (Rs in Cores)

Particulars	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24
Return on Equity	149.85	149.85	149.85	149.85	149.85
Interest on Loan	556.92	520.95	484.98	449.01	413.04
Depreciation	332.02	332.02	332.02	332.02	332.02
Interest on Working Capital	120.99	112.82	112.77	112.73	112.66
Operation & Maintenance Expenses	267.43	276.80	286.57	296.60	307.03
Total AFC	1427.20	1392.44	1366.19	1340.21	1314.60

vi. **Table No. 36 at page 84 of the order:
Head Wise Total Annual Capacity (fixed) Charges**

S. No	Particulars	AFC Allowed (Rs in Cr.)				
		FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24
1	Return on Equity	816.42	816.42	816.42	816.42	816.42
2	Interest on Loan	1260.30	1145.72	1035.86	931.39	828.23
3	Depreciation	1131.48	1122.81	1064.75	1040.98	1024.78
4	O&M Expenses	1424.75	1474.72	1526.62	1580.28	1635.70
6	Special Allowance	78.85	78.85	78.85	78.85	78.85
7	Interest on Working Capital	442.07	413.07	413.09	413.75	414.44
Total Capacity (fixed) Charges		5153.87	5051.58	4935.59	4861.68	4798.42

vii. **At Sr. No. 7 in Table No. 37 at page 84 of the order:
Power Station wise Annual Capacity (fixed) Charges (Rs in Crore)**

Sr no	Power Stations	AFC Allowed				
		FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24
7	SSTPS PH-2	1427.20	1392.44	1366.19	1340.21	1314.60
	Thermal	4889.68	4793.87	4674.27	4596.75	4529.69
	Hydel	264.19	257.71	261.32	264.93	268.72
Total		5153.87	5051.58	4935.59	4861.68	4798.42

viii. **Para 135 at page 89 of the order:**

“The Units of SSTPP PH-2 (Unit No 3&4) achieved COD on 18th November’ 2018 and 27th March’ 2019, respectively. The Commission issued final order for SSTPP PH-2 for Unit 3 and Unit 4. The norm for Station Heat Rate for SSTPP PH-II is considered in accordance to the aforesaid Regulation 49.3 (C) (ii) during the control period FY 2019-20 to FY 2023-24 in this order.”

ix. **Table in para 136 at page 89 of the order:
Station Heat Rate approved for SSTPP PH-2**

Thermal Power Station	Station Heat Rate
	Kcal/kWh
SSTPS PH-2	2185.69

x. **Table No 39 at page 92 of the order:
Norms for Operating Parameters approved for SSTPP PH-2**

Operating Parameters	Unit	SSTPP PH-2
Gross Station Heat Rate	KCal/kWh	2185.69
Aux. Energy consumption	%	5.75
Sp. fuel oil consumption	ml/kWh	0.50
Transit Loss	%	0.80

**xi. Table No 43 at page 100 of the order:
Computation of Energy charges approved for SSTPP PH-2**

Sr. No.	Particular	Unit	SSTPP PH-2
1	Installed Capacity	MW	1320
2	Gross Station Heat Rate	Kcal/kWh	2185.69
3	Sp. Fuel Oil consumption	ml/kWh	0.50
4	Auxiliary Energy Consumption	%	5.75
5	GCV of Oil	Kcal/Ltr.	10,000
6	GCV of Coal	Kcal/kg	3499
7	Wt. Average price of Oil	Rs./Ltr.	41322
8	Wt. Average price of Coal	Rs./kg	4211
9	Heat contributed from Oil	Kcal/kWh	5.00
10	Heat contributed from Coal	Kcal/kWh	2181
11	Sp. Coal consumption	Kg/kWh	0.6232
12	Rate of energy charge from Oil	Rs./unit	0.021
13	Rate of energy charge from Coal	Rs./unit	2.624
14	Total energy charge rate	Rs./unit	2.645
15	Rate of energy ex-bus	Rs./unit	2.806

**xii. Table No 44 and 45 at page 104 of the order:
Head Wise & Power Station Wise Annual Capacity Charges Allowed (Rs in Cr.)**

S. No	Particulars	AFC Allowed (Rs in Cr.)				
		FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24
1	Return on Equity	816.42	816.42	816.42	816.42	816.42
2	Interest on Loan	1260.30	1145.72	1035.86	931.39	828.23
3	Depreciation	1131.48	1122.81	1064.75	1040.98	1024.78
4	O&M Expenses	1424.75	1474.72	1526.62	1580.28	1635.70
6	Special Allowance	78.85	78.85	78.85	78.85	78.85
7	Interest on Working Capital	442.07	413.07	413.09	413.75	414.44
Total Capacity (fixed) Charges		5153.87	5051.58	4935.59	4861.68	4798.42

Sr. No.	Power Stations	AFC Allowed				
		FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24
1	ATPS, Chachai PH-3	198.06	193.75	190.32	164.21	163.59
2	STPS PH-2&3	402.00	406.54	415.49	424.78	434.32
3	STPS, Sarni PH-4	653.75	638.85	626.97	615.41	603.99
4	SGTPS, PH-1&2	440.15	445.35	454.41	463.81	457.03
5	SGTPS, Birsinghpur PH-3	391.03	378.33	313.15	311.19	309.32
6	SSTPS PH-1	1377.48	1338.60	1307.74	1277.13	1246.84
7	SSTPS PH-2	1427.20	1392.44	1366.19	1340.21	1314.60
	Thermal	4889.68	4793.87	4674.27	4596.75	4529.69

8	Gandhi Sagar	14.28	14.71	15.21	15.71	16.23
9	Pench	25.75	26.36	27.06	27.76	28.49
10	Rajghat	14.52	14.69	14.88	15.08	15.29
11	Bargi	16.87	17.21	17.60	17.99	18.40
12	Bansagar (1,2&3)	148.65	150.11	151.88	153.65	155.50
13	Bansagar-4, Jhinna	9.35	9.37	9.46	9.54	9.63
14	Birsinghpur	5.90	5.97	6.06	6.15	6.24
15	Madhikheda	28.87	19.29	19.17	19.05	18.94
	Hydel	264.19	257.71	261.32	264.93	268.72
	Total	5153.87	5051.58	4935.59	4861.68	4798.42

**xiii. Table No 46 at page 105 of the order:
SSTPP PH-2: Energy (Variable) Charges determined (Rs /Unit)**

Power Station	FY 2019-20 to FY 2023-24
SSTPP PH-2	2.806