CENTRAL ELECTRICITY REGULATORY COMMISSION NEW DELHI

Petition No. 239/GT/2020

Coram:

Shri I.S. Jha, Member Shri Arun Goyal, Member Shri P.K. Singh, Member

Date of Order: 11.5.2023

In the matter of:

Corrigendum to the order dated 5.4.2023 in Petition No. 239/GT/2020

And

In the matter of:

Petition for truing-up of tariff of Vindhyachal Super Thermal Power Station Stage-V (500 MW) for the period 2014-19.

And

In the matter of:

NTPC Ltd., NTPC Bhawan, Core-7, Institutional Area, Lodhi Road, New Delhi-110003

.... Petitioner

Vs

- Madhya Pradesh Power Management Company Limited, Shakti Bhawan, Vidyut Nagar, Jabalpur 482008
- Maharashtra Electricity Distribution Company Limited, Prakashgad, Bandra (East), Mumbai 400051
- Gujarat Urja Vikas Nigam Limited, Vidyut Bhawan, Racecourse, Vadodara- 390007
- Chhattisgarh State Power Distribution Company Limited,
 P.O Sundar Nagar, Dangania, Raipur- 492013



5. Electricity Department of Goa, Vidyut Bhawan, Panaji, Goa

6. DNH Power Distribution Company Limited, UT of DNH, Silvassa- 396230

7. Electricity Department, Administration of Daman & Diu,

Daman- 396210

.....Respondents

<u>ORDER</u>

The Commission vide its order dated 5.4.2023 in Petition No. 239/GT/2020 had

trued-up the tariff of Vindhyachal Super Thermal Power Station Stage-V (500 MW) ("the

generating station") for the period 2014-19.

2. It is however noticed that certain inadvertent typographical/arithmetical errors (linkage

errors) have crept in our order dated 5.4.2023, while considering the values for depreciation,

repayment of loan and calculation of interest on working capital. Therefore, in terms of the

Regulation 111 read with Regulation 103A of the CERC (Conduct of Business) Regulations

1999, these inadvertent errors are being rectified, as stated in the subsequent paragraphs.

3. For computation of interest on loan, the repayment of loan considered during the year

2015-16 (in the table under paragraph 44) is corrected as Rs. 4427.82 lakh. Further, for

computation of ECR, the Cost of Limestone, which was inadvertently considered as Rs.

0.000028 /KWh, is corrected as Rs. 0.028 / KWh. Based on this, the order dated 5.4.2023

stands revised, as stated in the subsequent paragraphs:

Interest on Loan

4. Accordingly, the table under paragraph 44 of the order stands modified, as under:

(Rs. in lakh)

(Norm tar				
	2015-16	2016-17	2017-18	2018-19
	(30.10.2015			
	to 31.3.2016)			
Gross opening loan	137292.18	145004.55	177165.74	203952.75
Cumulative repayment of loan upto	-	4422.52	16468.29	30728.61
previous year				
Net Loan Opening	137292.18	140582.02	160697.46	173224.14
Addition due to additional capital	7712.37	32161.20	26787.01	5029.50
expenditure				
Repayment of loan during the year	4427.82	12049.55	14276.90	15459.23
Less: Repayment adjustment on	5.30	3.78	16.57	130.34
account of de-capitalization				
Net Repayment of loan during the year	4422.52	12045.76	14260.32	15328.89
Net Loan Closing	140582.02	160697.46	173224.14	162924.74
Average Loan	138937.10	150639.74	166960.80	168074.44
Weighted Average Rate of Interest of	7.9359%	7.7710%	7.1894%	7.5288%
loan				
Interest on Loan	11025.84	11706.15	12003.46	12653.98

Depreciation

5. Also, the table under paragraph 46 of the order stands modified, as under:

(Rs. in lakh)

	2015-16 (30.10.2015 to 31.3.2016)	2016-17	2017-18	2018-19
Average capital cost (A)	201640.21	230121.33	272227.19	294953.26
Value of freehold land included above (B)	714.20	714.20	714.20	714.20
Aggregated depreciable Value [C = (A-B) x 90%]	180833.41	206466.42	244361.69	264815.16
Remaining Aggregate Depreciable value at the beginning of the year (D = C – 'J' of previous year)	180833.41	202068.77	226661.99	234180.07
Balance useful life at the beginning of the year (E)	25.00	24.50	23.50	22.50
Weighted average rate of depreciation (F)	5.2188%	5.2362%	5.2445%	5.2412%
Depreciation Annualized (G = A x F)	10523.27	12049.55	14276.90	15459.23
Depreciation for the period (H)	4427.82*	12049.55	14276.90	15459.23
Cumulative depreciation at the end of the year, before adjustment of decapitalisation adjustment (I = H + 'K' of previous year)	4427.82	16477.37	30754.27	46213.50
Cumulative depreciation adjustment on account of de-capitalisation (J)	5.30	3.78	16.57	130.34
Cumulative depreciation, at the end of the year (K = I-J)	4422.52	16473.59	30737.69	46083.16

*Pro-rata for 154 days

Energy Charge Rate (ECR) for computation of working capital

6. Further, the table under paragraph 92 of the order stands modified, as under:

	Unit	2015-16 (30.10.2015 to 31.3.2016)	2016-19
Capacity	MW	500	500
Gross Station Heat Rate	kCal/kWh	2351.25	2351.25
Aux. Energy Consumption	%	5.75	6.86
Weighted average GCV of oil	kCal/lit	9712.49	9712.49
Weighted average GCV of Coal	Kcal/kg	3573.91	3573.91
Specific Limestone Consumption	Kg/kWh	0	0.0162
Weighted average price of oil	Rs./KL	52378.04	52378.04
Weighted average price of Coal	Rs./MT	2818.30	2818.39
Weighted Average Price of Limestone	Rs./MT	-	1600
Rate of Energy Charge ex-bus	Rs./kWh	1.991	2.043

7. The Energy Charges for two months for computation of working capital based on ECR of above table (as in paragraph 93 of the order) is also revised as under:

		(Rs. in lakh)
2015-16 (31.10.2015 to 31.3.2016)	2016-17	2017-18	2018-19
11400.97	11529.37	11807.19	11807.19

Working Capital for Receivables

8. Receivables equivalent to two months of capacity charges and energy charges as worked out and allowed under paragraph 47 of the order is modified as under:

				(Rs. in lakh)
	2015-16	2016-17	2017-18	2018-19
	(30.10.2015 to 31.3.2016)			
Variable Charges - for two months	11400.97	11529.37	11807.19	11807.19
Fixed Charges - for two months	7730.54	8641.19	9609.53	10273.13
Total	19131.51	20170.56	21416.72	22080.32

Interest on working capital

9. Accordingly, Interest on working capital as computed and allowed in paragraph 100 of the order is modified as under:

(Rs. in lakh)

(1.0.11114				
	2015-16	2016-17	2017-18	2018-19
	(30.10.2015			
	to 31.3.2016)			
Cost of Coal towards Stock (15 days)	5528.89	5528.89	5662.12	5662.12
Cost of Coal towards Generation (30 days)	5528.89	5528.89	5662.12	5662.12
Cost of Limestone towards Stock (30 days)	-	77.45	79.32	79.32
Cost of Limestone towards generation (30				
days)	-	77.45	79.32	79.32
Cost of Secondary fuel oil (2 months)	159.11	158.68	162.50	162.50
Maintenance Spares @ 20% of O&M				
expenses	1624.34	1885.97	1984.36	2104.67
Receivables – 2 months	19131.51	20170.56	21416.72	22080.32
O&M expenses – 1 month	676.81	785.82	826.82	876.95
Total Working Capital	32649.56	34213.72	35873.27	36707.30
Rate of Interest	13.5000%	13.5000%	13.5000%	13.5000%
Interest on Working Capital	4407.69	4618.85	4842.89	4955.49

Annual Fixed Charges for the period 2015-19

10. Based on the above, the annual fixed charges approved in the table under paragraph101 of the order stands modified as under:

(Rs. in lakh)

	2015-16	2016-17	2017-18	2018-19
	(30.10.2015			
	to 31.3.2016)			
Depreciation	10523.27	12049.55	14276.90	15459.23
Interest on Loan	11025.84	11706.15	12003.46	12653.98
Return on Equity	12304.71	14042.71	16612.14	18046.73
Interest on Working Capital	4407.69	4618.85	4842.89	4955.49
O&M Expenses	8121.71	9429.87	9921.81	10523.36
Total	46383.22	51847.13	57657.20	61638.79

Note: (1) All figures are on annualized basis. (2) All figures under each head have been rounded. The figure in total column in each year is also rounded. As such the sum of individual items may not be equal to the arithmetic total of the column

11. Except for the above, all other terms in order dated 5.4.2023 remain unaltered.

Sd/- Sd/- Sd/(Pravas Kumar Singh) (Arun Goyal) (I.S Jha)
Member Member Member