

**CENTRAL ELECTRICITY REGULATORY COMMISSION  
New Delhi**

**Petition No. 374/TT/2024**

**Coram:**

**Shri Jishnu Barua, Chairperson  
Shri Ramesh Babu V., Member  
Shri Harish Dudani, Member**

**Date of Order: 08.01.2025**

**In the matter of:**

Approval for the truing-up of transmission tariff for the 2019-24 period and the determination of transmission tariff for the 2024-29 period for the Combined Asset under "System Strengthening–VIII in Southern Regional Grid" under Section 62 read with Section 79(1)(d) of the Electricity Act, 2003 and under Regulations 15(1)(a) and 23 of the Central Electricity Regulatory Commission (Conduct of Business) Regulations, 2023 read with the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 and the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024.

**And in the matter of:**

**Power Grid Corporation of India Limited,  
"Saudamini", Plot No. 2,  
Sector-29, Gurgaon - 122 001 (Haryana)**

**...Petitioner**

**Vs.**

- 1. Tamil Nadu Generation and Distribution Corporation Limited,  
NPKRR Maaligai, 800, Anna Salai,  
Chennai - 600 002**
- 2. Kerala State Electricity Board Limited,,  
Vaidyuthi Bhavanam  
Pattom, Thiruvananthapuram - 695 004**
- 3. Electricity Department,  
Government of Goa,  
Vidyut Bhawan, Panaji, Goa - 403 001**
- 4. Electricity Department,  
Govt. of Pondicherry,  
137, Netaji Subash Chandra Bose Salai  
Pondicherry - 605001**



5. **Eastern Power Distribution Company of Andhra Pradesh Limited,**  
APEPDCL, P&T Colony,  
Seethmmadhara, Vishakhapatnam, Andhra Pradesh
6. **Southern Power Distribution Company of Andhra Pradesh Limited,**  
#19-13-65/A, Srinivasapuram, Tiruchanoor Road  
Tirupati - 517503, Andhra Pradesh
7. **Andhra Pradesh Central Power Distribution Company Limited,**  
Corporate Office, Beside Polytechnic College, ITI Road  
Vijayawada - 520 008, Krishna District, Andhra Pradesh
8. **Southern Power Distribution Company of Telangana Limited,**  
6-1-50, Corporate Office, Mint Compound,  
Hyderabad - 500 063, Telangana
9. **Northern Power Distribution Company of Telangana Limited,**  
H.No. 2-5-3 1/2, Vidyut Bhawan, Corporate Office,  
Nakkal Gutta, Hanamkonda, Warangal - 506 001, Telangana
10. **Bangalore Electricity Supply Company Limited,**  
Corporate Office, K.R. Circle  
Bangalore - 560 001, Karnataka
11. **Gulbarga Electricity Supply Company Limited,**  
Corporate Office, Station Main Road, Opp. Parivar Hotel,  
Gulbarga (Kalburgi) - 585102, Karnataka
12. **Hubli Electricity Supply Company Limited,**  
Navanagar, PB Road, Hubli- 580025, Karnataka
13. **Mangalore Electricity Supply Company Limited,**  
Corporate Office, 1st Floor, MESCOM Bhavan,  
Kavoor Cross Road, Bejai, Mangalore - 575 004, Karnataka
14. **Chamundeswari Electricity Supply Corporation Limited,**  
Corporate Office, #29, Vijayanagara 2nd Stage,  
Hinkal, Mysuru - 570017, Karnataka

...Respondents

**Party Present** : Shri A. Naresh Kumar, PGCIL



## ORDER

The instant Petition has been filed by Power Grid Corporation of India Limited for the truing-up of the transmission tariff for the 2019-24 period under the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 (hereinafter referred to as “the 2019 Tariff Regulations”) and for the determination of transmission tariff for the 2024-29 period under the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 (hereinafter referred to as “the 2024 Tariff Regulations”) in respect of the combined asset consisting of the following assets under “System Strengthening–VIII in Southern Regional Grid” (hereinafter referred to as “the transmission scheme”) in the Southern Region:

- (a) 63 MVAR Line Reactors at Madurai and Trichy Sub-stations along with associated bays,
- (b) 63 MVAR Bus Reactors at Hosur and Salem Sub-stations along with associated bays,
- (c) 63 MVAR Bus Reactors at Sriperumbudur Sub-stations along with associated bays,
- (d) 63 MVAR Bus Reactors at Kolar, Hyderabad, and Munirabad Sub-stations along with associated bays,
- (e) 63 MVAR Bus Reactor at Hiriyur Sub-station, along with associated bays,
- (f) 63 MVAR Reactors at Udumalpet Sub-stations along with associated bays, and
- (g) 63 MVAR Reactors at Trivandrum Sub-stations along with associated bays.

2. The Petitioner has made the following prayers in the instant Petition:

- “a) Approve the trued up Transmission Tariff for 2019-24 block and transmission tariff for 2024-29 block for the assets covered under this petition, as per para 12 and 13 above.*
- b) Allow the petitioner to recover the shortfall or refund the excess Annual Fixed Charges, on account of Return on Equity due to change in applicable Minimum Alternate/Corporate Income Tax rate as per the Income Tax Act, 1961 (as amended from time to time) of the respective financial year directly without making any application before the Commission as provided in Tariff Regulation 2019 and Tariff regulations 2024 as per para 12 and 13 above for respective block.*
- c) Approve the reimbursement of expenditure by the beneficiaries towards petition filing fee, and expenditure on publishing of notices in newspapers in terms of Regulation 94 (1) Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024, and other expenditure (if any) in relation to the filing of petition.*



- d) *Allow the petitioner to bill and recover Licensee fee and RLDC fees & charges, separately from the respondents in terms of Regulation 94 (3) and (4) Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024.*
- e) *Allow the petitioner to bill and adjust impact on Interest on Loan due to change in Interest rate on account of floating rate of interest applicable during 2024-29 period, if any, from the respondents.*
- f) *Allow the petitioner to file a separate petition before Hon'ble Commission for claiming the overall security expenses and consequential IOWC on that security expenses as mentioned at para 19 above.*
- g) *Allow the petitioner to file a separate petition before Hon'ble Commission for claiming the overall insurance expenses and consequential IOWC on that insurance expenses as mentioned at para 19 above.*
- h) *Allow the petitioner to file a separate petition before Hon'ble Commission for claiming the overall capital spares at the end of tariff block as per actual as mentioned at Para 19 above.*
- i) *Allow the petitioner to claim expenses of CTUIL borne by POWERGRID through a separate petition as mentioned at para 20 above.*
- j) *Allow the Petitioner to bill and recover GST on Transmission Charges separately from the respondents, if GST on transmission is levied at any rate in future. Further, any taxes including GST and duties including cess etc. imposed by any statutory/Govt./municipal authorities shall be allowed to be recovered from the beneficiaries.*

*and pass such other relief as the Commission deems fit and appropriate under the circumstances of the case and in the interest of justice.”*

### **Background**

3. The brief facts of the case are as follows:

- a) The Investment Approval (the IA) for the transmission scheme was accorded by the Board of Directors of the Petitioner, vide Memorandum Ref: C/CP/SR-VIII dated 26.2.2008, at an estimated cost of ₹10584.00 lakhs including an Interest During Construction (IDC) of ₹784.00 lakhs based on the 3rd Quarter, 2007 price level.
- b) The scope of work covered under the transmission scheme is as follows:

#### **A. Bus Reactors at the following Sub-stations of the Petitioner:**

- (i) 63 MVAr Bus Reactor at Hossur,
- (ii) 63 MVAr Bus Reactor at Salem,
- (iii) 63 MVAr Bus Reactor at Sriperumbudur,
- (iv) 63 MVAr Bus Reactor at Kolar,
- (v) 63 MVAr Bus Reactor at Hyderabad,
- (vi) 63 MVAr Bus Reactor at Munirabad,



(vii) 63 MVAr Bus Reactor at Hiriyr

**B. Line Reactors at the following Sub-stations of the Petitioner:**

- (i) 63 MVAr Line Reactor at Trichy,
- (ii) 63 MVAr Line Reactor at Madurai,
- (iii) 63 MVAr Line Reactor at Udumalpet,
- (iv) 63 MVAr Line Reactor at Trivandrum

- c) The transmission tariff for the combined asset from the respective COD to 31.3.2014 was determined vide order dated 28.7.2011 in Petition No. 282/2010. Further, the transmission tariff for the 2009-14 period was trued-up, and the transmission tariff for the 2014-19 period was determined vide order dated 28.4.2016 in Petition No. 533/TT/2014. The Commission, vide order dated 2.2.2021 in Petition No. 117/TT/2020, trued-up the transmission tariff for the 2014-19 period and determined the transmission tariff for the 2019-24 period in respect of the combined asset covered under the instant Petition.
- d) The Petitioner has filed the instant Petition for the truing-up of transmission tariff for the 2019-24 period and the determination of transmission tariff for the 2024-29 period in respect of the following combined asset in the Southern Regional Grid:

<b>Asset</b>	<b>Asset Name</b>	<b>COD</b>
Combined Asset	(a) 63 MVAr Line Reactors at Madurai and Trichy Sub-stations along with associated bays,	1.12.2009
	(b) 63 MVAr Bus Reactors at Hosur and Salem Sub-stations along with associated bays,	1.3.2010
	(c) 63 MVAr Bus Reactors at Sriperumbudur Sub-stations alongwith associated bays,	1.4.2010
	(d) 63 MVAr Bus Reactors at Kolar, Hyderabad and Munirabad Sub-stations along with associated bays,	1.5.2010
	(e) 63 MVAr Bus Reactor at Hiriyr Sub-station along with associated bays,	1.6.2010
	(f) 63 MVAr Reactors at Udumalpet Sub-stations alongwith associated bays, and	1.7.2010
	(g) 63 MVAr Reactors at Trivandrum Sub-stations alongwith associated bays.	1.10.2010



4. The Respondents include Distribution Licensees, Power Departments, and Transmission Licensees that receive transmission services from the Petitioner, primarily benefiting the Southern Region.

5. The Petitioner has served a copy of the Petition on the Respondents and notice regarding the filing of this Petition has been published in the newspapers in accordance with Section 64 of the Electricity Act, 2003 (the Act). No comments or suggestions have been received from the general public in response to the aforesaid notices published in the newspapers by the Petitioner. The Petitioner has furnished the information, vide affidavit dated 14.11.2024, in response to the Record of Proceedings (RoP) for the hearing dated 5.11.2024.

6. The hearing in the matter was held on 5.11.2024, and the order was reserved.

7. This order is issued considering the Petitioner's submissions in the Petition vide affidavits dated 27.7.2024 and 14.11.2024.

8. Having heard the Petitioner's representative and perused the material available on record, we proceed to dispose of the Petition.

#### **TRUING-UP OF ANNUAL FIXED CHARGES FOR THE 2019-24 TARIFF PERIOD**

9. The details of the trued-up transmission charges claimed by the Petitioner in respect of the combined asset are as follows:

Particulars	(₹ in lakh)				
	2019-20	2020-21	2021-22	2022-23	2023-24
Depreciation	451.43	451.43	451.43	451.43	150.20
Interest on Loan	161.31	121.22	81.28	41.40	14.81
Return on Equity	481.75	481.75	481.75	481.75	481.75
Interest on Working Capital	26.27	24.31	22.45	22.25	20.90
O&M Expenses	225.05	232.96	241.15	249.62	258.37
<b>Total</b>	<b>1345.81</b>	<b>1311.67</b>	<b>1278.06</b>	<b>1246.45</b>	<b>926.03</b>



10. The details of the trued-up Interest on Working Capital (IWC) claimed by the Petitioner in respect of the combined asset are as follows:

(₹ in lakh)					
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
O&M Expenses	18.75	19.41	20.10	20.80	21.53
Maintenance Spares	33.76	34.94	36.17	37.44	38.76
Receivables	165.47	161.71	157.57	153.67	113.86
<b>Total Working Capital</b>	<b>217.98</b>	<b>216.06</b>	<b>213.84</b>	<b>211.91</b>	<b>174.14</b>
Rate of Interest (In %)	12.05	11.25	10.50	10.50	12.00
<b>Interest on Working Capital</b>	<b>26.27</b>	<b>24.31</b>	<b>22.45</b>	<b>22.25</b>	<b>20.90</b>

### **Capital Cost for the 2019-24 Tariff Period**

11. The Commission, vide order dated 2.2.2021 in Petition No. 117/TT/2020, considered the capital cost of ₹8549.78 lakhs in respect of the combined asset as on 31.3.2019. The Petitioner has not claimed any Additional Capital Expenditure (ACE) for the 2019-24 tariff period. Therefore, the capital cost of ₹8549.78 lakhs has been considered as the opening capital cost as on 1.4.2019 for truing-up the transmission tariff for the 2019-24 period in accordance with Regulation 19 of the 2019 Tariff Regulations in the instant Petition.

12. We have considered the Petitioner's submissions. The capital cost allowed for the combined asset is as follows:

(₹ in lakh)		
Capital Cost as on 1.4.2019	ACE during the 2019-24 tariff period	Capital Cost as on 31.3.2024
₹8549.78	0.00	₹8549.78

### **Additional Capital Expenditure (ACE)**

13. The Petitioner has not claimed ACE in respect of the combined asset for the 2019-24 tariff period.



## Debt-Equity Ratio

14. The details of the debt-equity ratio considered and allowed under Regulation 18 of the 2019 Tariff Regulations for computation of tariff of the combined asset during the 2019-24 tariff period are as follows:

Funding	Capital Cost as on 1.4.2019		Capital Cost as on 31.3.2024	
	₹ in lakh	In %	₹ in lakh	In %
Debt	5984.85	70.00	5984.85	70.00
Equity	2564.93	30.00	2564.93	30.00
Total	8549.78	100.00	8549.78	100.00

## Depreciation

15. The depreciation has been worked out considering the admitted capital expenditure as on 1.4.2019 and thereafter up to 31.3.2024. The Weighted Average Rate of Depreciation (WAROD) at Annexure-I has been worked out for the combined asset as per Regulation 33 of the 2019 Tariff Regulations. Further, the combined asset has completed 12 years of life as on 1.4.2023, and the remaining depreciable value of ₹1952.59 lakh as on 1.4.2023 has been spread over the balance useful life of the combined asset in accordance with the 2019 Tariff Regulations.

16. The depreciation allowed for the combined asset is as follows:

(₹ in lakh)						
Sl. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
A	Opening Gross Block	8549.78	8549.78	8549.78	8549.78	8549.78
B	Addition during the year 2019-24 due to projected ACE	0.00	0.00	0.00	0.00	0.00
C	Closing Gross Block (A+B)	8549.78	8549.78	8549.78	8549.78	8549.78
D	Average Gross Block (A+C)/2	8549.78	8549.78	8549.78	8549.78	8549.78
E	Average Gross Block (90% depreciable assets)	8549.78	8549.78	8549.78	8549.78	8549.78
F	Average Gross Block (100% depreciable assets)	0.00	0.00	0.00	0.00	0.00





Sl. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
G	Depreciable value (excluding IT equipment and software) (E*90%)	7694.80	7694.80	7694.80	7694.80	7694.80
H	Depreciable value of IT equipment and software (F*100%)	0.00	0.00	0.00	0.00	0.00
I	Total Depreciable Value (G+H)	7694.80	7694.80	7694.80	7694.80	7694.80
J	Weighted average rate of Depreciation (WAROD) (In %)	5.280	5.280	5.280	5.280	Spread over Depreciation
K	Lapsed useful life at the beginning of the year (Year)	8	9	10	11	12
L	Balance useful life at the beginning of the year (Year)	17	16	15	14	13
<b>M</b>	<b>Depreciation during the year (D*J)</b>	<b>451.43</b>	<b>451.43</b>	<b>451.43</b>	<b>451.43</b>	<b>150.20</b>
N	Cumulative Depreciation at the end of the year	4387.93	4839.36	5290.79	5742.21	5892.41
O	Remaining Aggregate Depreciable Value at the end of the year	3306.87	2855.45	2404.02	1952.59	1802.39

17. The details of depreciation allowed vide order dated 2.2.2021 in Petition No. 117/TT/2020, depreciation claimed in the instant Petition, and trued-up depreciation allowed for the combined asset in the instant order are as follows:

Particulars	(₹ in lakh)				
	2019-20	2020-21	2021-22	2022-23	2023-24
Allowed vide order dated 2.2.2021 in Petition No. 117/TT/2020	451.43	451.43	451.43	451.43	175.20
Claimed by the Petitioner in the instant Petition	451.43	451.43	451.43	451.43	150.20
Allowed after truing-up in this order	451.43	451.43	451.43	451.43	150.20

### **Interest on Loan (IoL)**

18. The Petitioner has claimed the Weighted Average Rate of Interest (WAROI) on loans based on its actual loan portfolio and prevailing interest rate. The IoL has been calculated based on the actual interest rate submitted by the Petitioner in accordance with Regulation 32 of the 2019 Tariff Regulations. The trued-up IoL allowed in respect of the combined asset is as follows:



(₹ in lakh)

Sl. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
A	Gross Normative Loan	5984.85	5984.85	5984.85	5984.85	5984.85
B	Cumulative Repayments up to Previous Year	3936.50	4387.93	4839.36	5290.79	5742.21
C	Net Loan-Opening (A-B)	2048.35	1596.92	1145.49	694.06	242.64
D	Addition due to ACE	0.00	0.00	0.00	0.00	0.00
E	Repayment during the year	451.43	451.43	451.43	451.43	150.20
F	Net Loan-Closing (C+D-E)	1596.92	1145.49	694.06	242.64	92.44
G	Average Loan (C+F)/2	1822.64	1371.21	919.78	468.35	167.54
H	Weighted Average Rate of Interest on Loan (In %)	8.850	8.841	8.837	8.839	8.843
I	<b>Interest on Loan (G*H)</b>	<b>161.31</b>	<b>121.22</b>	<b>81.28</b>	<b>41.40</b>	<b>14.82</b>

19. The details of the IoL allowed vide order dated 2.2.2021 in Petition No. 117/TT/2020, IoL claimed in the instant Petition, and trued-up IoL allowed in the instant order in respect of the combined asset are as follows:

(₹ in lakh)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Allowed vide order dated 2.2.2021 in Petition No. 117/TT/2020	161.34	121.36	81.40	41.44	13.71
Claimed by the Petitioner in the instant Petition	161.31	121.22	81.28	41.40	14.81
Allowed after truing-up in this order	161.31	121.22	81.28	41.40	14.82

### Return on Equity (RoE)

20. The Petitioner has submitted that its income tax assessment has been completed, and assessment orders have been issued by the Income Tax Department for FY 2019-20 and FY 2020-21. Further, the Income Tax Returns have been filed with the Income Tax Department for FY 2021-22 and FY 2022-23. The Income Tax Returns for FY 2023-24 will be filed in due course. The Petitioner has further submitted that it is liable to pay the income tax at MAT rates and has claimed the following effective tax rates for the 2019-24 tariff period:

Year	Claimed effective tax rate (In %)	Grossed up RoE (In %) [(Base Rate)/(1-t)]
2019-20	17.472%	18.782%
2020-21	17.472%	18.782%
2021-22	17.472%	18.782%
2022-23	17.472%	18.782%
2023-24	17.472%	18.782%



21. We have considered the Petitioner's submissions and have also gone through the record. We have arrived at the effective tax rate based on the notified MAT rates notified by the Income Tax Department and the same is as follows:

Year	Notified MAT rates (In %) (inclusive of surcharge & cess)	Effective tax (In %)	Base rate of RoE (In %)	Grossed-up RoE [(Base Rate)/(1-t)] (In %)
2019-20	17.472%	17.472%	15.50	18.782%
2020-21	17.472%	17.472%	15.50	18.782%
2021-22	17.472%	17.472%	15.50	18.782%
2022-23	17.472%	17.472%	15.50	18.782%
2023-24	17.472%	17.472%	15.50	18.782%

22. Accordingly, the trued-up RoE allowed in respect of the combined asset for the 2019-24 tariff period is as follows:

(₹ in lakh)						
Sl. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
A	Opening Equity	2564.93	2564.93	2564.93	2564.93	2564.93
B	Addition due to ACE	0.00	0.00	0.00	0.00	0.00
C	Closing Equity (A+B)	2564.93	2564.93	2564.93	2564.93	2564.93
D	Average Equity (A+C)/2	2564.93	2564.93	2564.93	2564.93	2564.93
E	Return on Equity (Base Rate) (In %)	15.50	15.50	15.50	15.50	15.50
F	Tax Rate applicable (In %)	17.472	17.472	17.472	17.472	17.472
G	Rate of Return on Equity (In %)	18.782	18.782	18.782	18.782	18.782
H	<b>Return on Equity (D*G)</b>	<b>481.75</b>	<b>481.75</b>	<b>481.75</b>	<b>481.75</b>	<b>481.75</b>

23. The details of the RoE allowed vide order dated 2.2.2021 in Petition No. 117/TT/2020, RoE claimed in the instant Petition, and trued-up RoE allowed in the instant order in respect of the combined asset are as follows:

(₹ in lakh)					
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Allowed vide order dated 2.2.2021 in Petition No. 117/TT/2020	481.75	481.75	481.75	481.75	481.75
Claimed by the Petitioner in the instant Petition	481.75	481.75	481.75	481.75	481.75
Allowed after truing-up in this order	481.75	481.75	481.75	481.75	481.75



## **Operation & Maintenance Expenses (O&M Expenses)**

24. The Commission, vide order dated 2.2.2021 in Petition No. 117/TT/2020, allowed the following O&M Expenses with respect to the combined asset for the 2019-24 period:

(₹ in lakh)

<b>O&amp;M Expenses</b>					
	<b>2019-20</b>	<b>2020-21</b>	<b>2021-22</b>	<b>2022-23</b>	<b>2023-24</b>
<b>Total O&amp;M Expenses</b>	225.05	232.96	241.15	249.62	258.37

25. The Petitioner, in the instant true-up Petition, has claimed the following O&M Expenses:

(₹ in lakh)

<b>Particulars</b>	<b>2019-20</b>	<b>2020-21</b>	<b>2021-22</b>	<b>2022-23</b>	<b>2023-24</b>
<b>O&amp;M Expenses:</b>					
<b>400 kV Bus Reactor Bays:</b> 1 No. Bay at Hiriyyur Sub-station, 1 No. Bay at Hosur Sub-station, 1 No. Bay at Hyderabad Sub-station, 1 No. Bay at Kolar Sub-station, 1 No. Bay at Thrissur Sub-station, 1 No. Bay at Salem Sub-station and 1 No. Bay at Sriperumbudur Sub-station.					
<b>No. of Bays</b>	7	7	7	7	7
<b>Norms (₹ lakh/Bay)</b>	32.15	33.28	34.45	35.66	36.91
<b>Total O&amp;M for 400 kV Bays</b>	225.05	232.96	241.15	249.62	258.37
<b>Total O&amp;M Expenses allowed</b>	<b>225.05</b>	<b>232.96</b>	<b>241.15</b>	<b>249.62</b>	<b>258.37</b>

26. We have considered the Petitioner's submissions. The Petitioner, in the instant true-up Petition, has claimed the same O&M Expenses for the 2019-24 tariff period. Accordingly, the details of O&M Expenses allowed vide order dated 2.2.2021 in Petition No. 117/TT/2020, O&M Expenses claimed in the instant Petition, and true-up O&M Expenses allowed in the instant order in respect of the combined asset are as follows:

(₹ in lakh)

<b>Particulars</b>	<b>2019-20</b>	<b>2020-21</b>	<b>2021-22</b>	<b>2022-23</b>	<b>2023-24</b>
Allowed vide order dated 2.2.2021 in Petition No. 117/TT/2020	225.05	232.96	241.15	249.62	258.37
As claimed by the Petitioner in the instant Petition	225.05	232.96	241.15	249.62	258.37
Allowed in the instant true-up Petition	225.05	232.96	241.15	249.62	258.37



### **Interest on Working Capital (IWC)**

27. IWC is worked out in accordance with Regulation 34 of the 2019 Tariff Regulations. The Rate of Interest (ROI) considered is 12.05% (SBI 1-year MCLR applicable as on 1.4.2019 of 8.55% plus 350 basis points) for the FY 2019-20, 11.25% (SBI 1-year MCLR applicable as on 1.4.2020 of 7.75% plus 350 basis points) for the FY 2020-21, 10.50% (SBI 1-year MCLR applicable as on 1.4.2021 of 7.00% plus 350 basis points) for the FY 2021-22 and FY 2022-23 and 12.00% (SBI 1 year MCLR applicable as on 1.4.2023 of 8.50% plus 350 basis points) for FY 2023-24.

28. The components of the working capital and interest allowed thereon for the combined asset are as follows:

(₹ in lakh)

Sl. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
A	Working Capital for O&M Expenses (O&M Expenses for one month)	18.75	19.41	20.10	20.80	21.53
B	Working Capital for Maintenance Spares (15% of O&M Expenses)	33.76	34.94	36.17	37.44	38.76
C	Working Capital for Receivables (Equivalent to 45 days of annual fixed cost /annual transmission charges)	165.47	161.71	157.57	153.67	113.86
D	Total Working Capital (A+B+C)	217.98	216.07	213.84	211.92	174.14
E	Rate of Interest for working capital (In %)	12.05	11.25	10.50	10.50	12.00
F	<b>Interest on working capital (D*E)</b>	<b>26.27</b>	<b>24.31</b>	<b>22.45</b>	<b>22.25</b>	<b>20.90</b>

29. The details of the IWC Expenses allowed vide order dated 2.2.2021 in Petition No. 117/TT/2020, IWC claimed in the instant Petition, and trued-up IWC allowed in the instant order in respect of the combined asset are as follows:

(₹ in lakh)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Allowed vide order dated 2.2.2021 in Petition No. 117/TT/2020	26.27	24.31	24.08	23.86	19.91
Claimed by the Petitioner in the instant Petition	26.27	24.31	22.45	22.25	20.90
Allowed after truing-up in this order	26.27	24.31	22.45	22.25	20.90



### **Trued-up Annual Fixed Charges for the 2019-24 Tariff Period**

30. Accordingly, the annual fixed charges allowed after truing-up for the 2019-24 tariff period in respect of the combined asset are as follows:

(₹ in lakh)

<b>Particulars</b>	<b>2019-20</b>	<b>2020-21</b>	<b>2021-22</b>	<b>2022-23</b>	<b>2023-24</b>
Depreciation	451.43	451.43	451.43	451.43	150.20
Interest on Loan	161.31	121.22	81.28	41.40	14.82
Return on Equity	481.75	481.75	481.75	481.75	481.75
Operation & Maintenance Expenses	225.05	232.96	241.15	249.62	258.37
Interest on Working Capital	26.27	24.31	22.45	22.25	20.90
<b>Total</b>	<b>1345.81</b>	<b>1311.67</b>	<b>1278.06</b>	<b>1246.45</b>	<b>926.03</b>

31. The details of annual transmission charges allowed vide order dated 2.2.2021 in Petition No. 117/TT/2020, annual transmission charges claimed in the instant Petition, and trued-up annual transmission charges allowed in the instant order in respect of the combined asset are as follows:

(₹ in lakh)

<b>Particulars</b>	<b>2019-20</b>	<b>2020-21</b>	<b>2021-22</b>	<b>2022-23</b>	<b>2023-24</b>
Allowed vide order dated 2.2.2021 in Petition No. 117/TT/2020	1345.83	1311.81	1279.81	1248.10	948.94
Claimed by the Petitioner in the instant Petition	1345.81	1311.67	1278.06	1246.45	926.03
Allowed after truing-up in this order	1345.81	1311.67	1278.06	1246.45	926.03

### **DETERMINATION OF ANNUAL FIXED CHARGES FOR THE 2024-29 TARIFF PERIOD**

32. The Petitioner has claimed the following transmission charges for the combined asset for the 2024-29 tariff period:

(₹ in lakh)

<b>Particulars</b>	<b>2024-25</b>	<b>2025-26</b>	<b>2026-27</b>	<b>2027-28</b>	<b>2028-29</b>
Depreciation	150.20	150.20	150.20	150.20	150.20
Interest on Loan	4.09	0.00	0.00	0.00	0.00
Return on Equity	481.75	481.75	481.75	481.75	481.75
Interest on Working Capital	26.20	27.02	27.93	28.85	29.95
O&M Expenses	388.32	408.85	429.94	452.43	476.80
<b>Total</b>	<b>1050.56</b>	<b>1067.82</b>	<b>1089.82</b>	<b>1113.23</b>	<b>1138.70</b>



33. The Petitioner has claimed the following IWC for the combined asset for the 2024-29 tariff period:

(₹ in lakh)					
Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
O&M Expenses	32.36	34.07	35.83	37.70	39.73
Maintenance Spares	58.25	61.33	64.49	67.86	71.52
Receivables	129.52	131.65	134.36	136.87	140.39
<b>Total Working Capital</b>	<b>220.13</b>	<b>227.05</b>	<b>234.68</b>	<b>242.43</b>	<b>251.64</b>
Rate of Interest (In %)	11.90	11.90	11.90	11.90	11.90
<b>Interest on Working Capital</b>	<b>26.20</b>	<b>27.02</b>	<b>27.93</b>	<b>28.85</b>	<b>29.95</b>

### **Capital Cost**

34. Regulation 19 of the 2024 Tariff Regulations provides as follows:

**“19. Capital Cost:** (1) *The Capital cost of the generating station or the transmission system, as the case may be, as determined by the Commission after prudence checks in accordance with these regulations shall form the basis for the determination of tariff for existing and new projects.*

(2) *The Capital Cost of a new project shall include the following:*

(a) *The expenditure incurred or projected to be incurred up to the date of commercial operation of the project;*

(b) *Interest during construction and financing charges, on the loans (i) being equal to 70% of the funds deployed and, in the event actual equity is in excess of 30% on a pari-passu basis, by treating the excess equity over and above 30% of the funds deployed as a normative loan, or (ii) being equal to the actual amount of the loan in the event of actual equity being less than 30% of the funds deployed;*

(c) *Any gain or loss on account of foreign exchange risk variation pertaining to the loan amount availed during the construction period;*

(d) *Interest during construction and incidental expenditure during construction as computed in accordance with these regulations;*

(e) *Capitalised initial spares subject to the ceiling rates in accordance with these regulations;*

(f) *Expenditure on account of additional capitalization and de-capitalisation determined in accordance with these regulations;*

(g) *Adjustment of revenue due to the sale of infirm power in excess of fuel cost prior to the date of commercial operation as specified under Regulation 6 of these regulations;*

(h) *Adjustment of revenue earned by the transmission licensee by using the assets before the date of commercial operation;*

(i) *Capital expenditure on account of ash disposal and utilization including handling and transportation facility;*

(j) *Capital expenditure incurred towards railway infrastructure and its augmentation for transportation of coal up to the receiving end of the generating station but does not include the transportation cost and any other appurtenant cost paid to the railway;*

(k) *Capital expenditure on account of biomass handling equipment and facilities, for co-firing;*





- (l) Capital expenditure on account of emission control system necessary to meet the revised emission standards and sewage treatment plant;  
(m) Expenditure on account of the fulfilment of any conditions for obtaining environment clearance for the project;  
(n) Expenditure on account of change in law and force majeure events; and  
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- (3) The Capital cost of an existing project shall include the following:  
(a) Capital cost admitted by the Commission prior to 1.4.2024 duly trued up by excluding liability, if any, as on 1.4.2024;  
(b) Additional capitalization and de-capitalization for the respective year of tariff as determined in accordance with these regulations;  
(c) Capital expenditure on account of renovation and modernisation as admitted by this Commission in accordance with these regulations;  
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(i) Expenditure on account of change in law and force majeure events;

- (6) The following shall be excluded from the capital cost of the existing and new projects:  
(a) The assets forming part of the project but not in use, as declared in the tariff petition;  
(b) De-capitalised Assets after the date of commercial operation on account of obsolescence;  
(c) De-capitalised Assets on account of upgradation or shifting from one project to another project:  
    *Provided that in case such an asset is recommended for further utilisation by the Regional Power Committee in consultation with CTU, such asset shall be de-capitalised from the original project only after its redeployment;*  
    *Provided further that unless shifting of an asset from one project to another is of a permanent nature, there shall be no de-capitalization of the concerned assets.*  
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(e) Proportionate cost of land of the existing generation or transmission project, as the case may be, which is being used for generating power from a generating station based on renewable energy as may be permitted by the Commission; and  
(f) Any grant received from the Central or State Government or any statutory body or authority for the execution of the project that does not carry any liability of repayment.”

35. The capital cost as on 1.4.2024 is allowed as ₹8549.78 lakh in accordance with Regulation 19(3) of the 2024 Tariff Regulations.

### **Additional Capital Expenditure**

36. The Petitioner has not claimed ACE in respect of the combined asset for the 2024-29 tariff period.





## **Debt Equity Ratio**

37. Regulation 18 of the 2024 Tariff Regulations provides as follows:

**“18. Debt-Equity Ratio:** (1) For new projects, the debt-equity ratio of 70:30 as on date of commercial operation shall be considered. If the equity actually deployed is more than 30% of the capital cost, equity in excess of 30% shall be treated as normative loan:

*Provided that:*

- i. where equity actually deployed is less than 30% of the capital cost, actual equity shall be considered for determination of tariff:*
- ii. the equity invested in foreign currency shall be designated in Indian rupees on the date of each investment:*
- iii. any grant obtained for the execution of the project shall not be considered as a part of capital structure for the purpose of debt: equity ratio.*

*Explanation-* The premium, if any, raised by the generating company or the transmission licensee, as the case may be, while issuing share capital and investment of internal resources created out of its free reserve for the funding of the project, shall be reckoned as paid up capital for the purpose of computing return on equity, only if such premium amount and internal resources are actually utilised for meeting the capital expenditure of the generating station or the transmission system.

*(2) The generating company or the transmission licensee, as the case may be, shall submit the resolution of the Board of the company or the approval of the competent authority in other cases regarding the infusion of funds from internal resources in support of the utilization made or proposed to be made to meet the capital expenditure of the generating station or the transmission system including communication system, as the case may be.*

*(3) In the case of the generating station and the transmission system, including the communication system declared under commercial operation prior to 1.4.2024, the debt-equity ratio allowed by the Commission for the determination of tariff for the period ending 31.3.2024 shall be considered:*

*Provided that in the case of a generating station or a transmission system, including a communication system which has completed its useful life as on 1.4.2024 or is completing its useful life during the 2024-29 tariff period, if the equity actually deployed is more than 30% of the capital cost, equity in excess of 30% shall not be taken into account for tariff computation;*

*Provided further that in case of projects owned by Damodar Valley Corporation, the debt: equity ratio shall be governed as per sub-clause (ii) of clause (2) of Regulation 96 of these regulations.*

*(4) In the case of the generating station and the transmission system, including communication system declared under commercial operation prior to 1.4.2024, but where debt: equity ratio has not been determined by the Commission for determination of tariff for the period ending 31.3.2024, the Commission shall approve the debt: equity ratio in accordance with clause (1) of this Regulation.*



(5) Any expenditure incurred or projected to be incurred on or after 1.4.2024 as may be admitted by the Commission as additional capital expenditure for determination of tariff, and renovation and modernisation expenditure for life extension shall be serviced in the manner specified in clause (1) of this Regulation.

(6) Any expenditure incurred for the emission control system during the tariff period as may be admitted by the Commission as additional capital expenditure for determination of supplementary tariff, shall be serviced in the manner specified in clause (1) of this Regulation.”

38. The Debt-equity ratio for the 2024-29 tariff period is dealt with in line with Regulation 18 of the 2024 Tariff Regulations. Accordingly, the debt-equity considered for the 2024-29 tariff period for the combined asset is as follows:

Funding	Capital Cost as on 1.4.2024		Capital Cost as on 31.3.2029	
	₹ in lakh	In %	₹ in lakh	In %
Debt	5984.85	70.00	5984.85	70.00
Equity	2564.93	30.00	2564.93	30.00
Total	8549.78	100.00	8549.78	100.00

### **Depreciation**

39. Regulation 33 of the 2024 Tariff Regulations provides as follows:

**"33. Depreciation:** (1) Depreciation shall be computed from the date of commercial operation of a generating station or unit thereof or a transmission system or element thereof including communication system. In the case of the tariff of all the units of a generating station or all elements of a transmission system including the communication system for which a single tariff needs to be determined, the depreciation shall be computed from the effective date of commercial operation of the generating station or the transmission system taking into consideration the depreciation of individual units:

Provided that the effective date of commercial operation shall be worked out by considering the actual date of commercial operation and installed capacity of all the units of the generating station or capital cost of all elements of the transmission system, for which a single tariff needs to be determined.

(2) The value base for the purpose of depreciation shall be the capital cost of the asset admitted by the Commission. In case of multiple units of a generating station or multiple elements of a transmission system, the weighted average life for the generating station or the transmission system shall be applied. Depreciation shall be chargeable from the first year of commercial operation. In the case of commercial operation of the asset for a part of the year, depreciation shall be charged on a pro rata basis.



(3) *The salvage value of the asset shall be considered as 10%, and depreciation shall be allowed up to the maximum of 90% of the capital cost of the asset:*

*Provided that the salvage value for IT equipment and software shall be considered as NIL and 100% value of the assets shall be considered depreciable;*

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*Provided also that any depreciation disallowed on account of lower availability of the generating station or unit or transmission system, as the case may be, shall not be allowed to be recovered at a later stage during the useful life or the extended life.*

(4) *Land other than the land held under lease and the land for a reservoir in case of a hydro generating station shall not be a depreciable asset and its cost shall be excluded from the capital cost while computing the depreciable value of the asset.*

(5) *Depreciation for Existing Projects shall be calculated annually based on the Straight Line Method and at rates specified in Appendix-I to these regulations for the assets of the generating station and transmission system:*

*Provided that the remaining depreciable value as on 31st March of the year closing after a period of 12 years from the effective date of commercial operation of the generating station or transmission system, as the case may be, shall be spread over the balance useful life of the assets.*

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(6) *Depreciation for New Projects shall be calculated annually based on the Straight Line Method and at rates specified in Appendix-II to these regulations for the assets of the generating station and transmission system:*

*Provided that the remaining depreciable value as on 31st March of the year closing after a period of 15 years from the effective date of commercial operation of the generating station or the transmission system, as the case may be, shall be spread over the balance useful life of the assets.*

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(7) *In the case of the existing projects, the balance depreciable value as on 1.4.2024 shall be worked out by deducting the cumulative depreciation as admitted to by the Commission up to 31.3.2024 from the gross depreciable value of the assets.*

(8) *The generating company or the transmission licensee, as the case may be, shall submit the details of capital expenditure proposed to be incurred during five years before the completion of useful life along with proper justification and proposed life extension. The Commission, based on prudence check of such submissions, shall approve the depreciation by equally spreading the depreciable value over the balance Operational Life of the generating station or unit thereof or fifteen years, whichever is lower, and in case of the transmission system shall equally spread the depreciable value over the balance useful life of the Asset or 10 years whichever is higher.*

(9) *In case of de-capitalization of assets in respect of generating station or unit thereof or transmission system or element thereof, the cumulative depreciation shall be adjusted by taking into account the depreciation recovered in tariff by the de-capitalised asset during its useful service.*

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40. The depreciation has been worked out considering the admitted capital expenditure as on 1.4.2024 and thereafter up to 31.3.2029. The Weighted Average Rate of Depreciation (WAROD) at Annexure-II has been worked out for the combined asset as per the rates of depreciation specified in the 2024 Tariff Regulations. Since the combined asset has already completed its 12 years of life as on 1.4.2023, the remaining depreciable value of ₹1802.39 lakh as on 1.4.2028 has been spread over the balance useful life of the combined asset in accordance with the 2024 Tariff Regulations.

41. The depreciation allowed for the combined asset under Regulation 33 of the 2024 Tariff Regulations for the 2024-29 tariff period is as under:

(₹ in lakh)						
Sl. No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
A	Opening Gross Block	8549.78	8549.78	8549.78	8549.78	8549.78
B	Addition during the year 2024-29 due to projected ACE	0.00	0.00	0.00	0.00	0.00
C	Closing Gross Block (A+B)	8549.78	8549.78	8549.78	8549.78	8549.78
D	Average Gross Block (A+C)/2	8549.78	8549.78	8549.78	8549.78	8549.78
E	Average Gross Block (90% depreciable assets)	8549.78	8549.78	8549.78	8549.78	8549.78
F	Average Gross Block (100% depreciable assets)	0.00	0.00	0.00	0.00	0.00
G	Depreciable value (excluding IT equipment and software) (E*90%)	7694.80	7694.80	7694.80	7694.80	7694.80
H	Depreciable value of IT equipment and software (F*100%)	0.00	0.00	0.00	0.00	0.00
I	Total Depreciable Value (G+H)	7694.80	7694.80	7694.80	7694.80	7694.80
J	Weighted average rate of Depreciation (WAROD) (In %)	Spread-over depreciation				
K	Lapsed useful life at the beginning of the year (Year)	13	14	15	16	17
L	Balance useful life at the beginning of the year (Year)	12	11	10	9	8
M	<b>Depreciation during the year (D*J)</b>	<b>150.20</b>	<b>150.20</b>	<b>150.20</b>	<b>150.20</b>	<b>150.20</b>
N	Cumulative Depreciation at the end of the year	6042.61	6192.81	6343.01	6493.21	6643.41
O	Remaining Aggregate Depreciable Value at the end of the year	1652.19	1501.99	1351.79	1201.59	1051.39



## **Interest on Loan (IoL)**

42. Regulation 32 of the 2024 Tariff Regulations provides as follows:

**“32. Interest on loan capital:** (1) *The loans arrived at in the manner indicated in Regulation 18 of these regulations shall be considered gross normative loans for the calculation of interest on loans.*

(2) *The normative loan outstanding as on 1.4.2024 shall be worked out by deducting the cumulative repayment as admitted by the Commission up to 31.3.2024 from the gross normative loan.*

(3) *The repayment for each of the years of the tariff period 2024-29 shall be deemed to be equal to the depreciation allowed for the corresponding year or period. In case of de-capitalization of assets, the repayment shall be adjusted by taking into account cumulative repayment on a pro rata basis, and the adjustment should not exceed cumulative depreciation recovered up to the date of de-capitalisation of such asset.*

(4) *Notwithstanding any moratorium period availed of by the generating company or the transmission licensee, as the case may be, the repayment of the loan shall be considered from the first year of commercial operation of the project and shall be equal to the depreciation allowed for the year or part of the year.*

(5) *The rate of interest shall be the weighted average rate of interest calculated on the basis of the actual loan portfolio or allocated loan portfolio;*

*Provided that if there is no actual loan outstanding for a particular year but the normative loan is still outstanding, the last available weighted average rate of interest of the loan portfolio for the project shall be considered;*

*Provided further that if the generating station or the transmission system, as the case may be, does not have any actual loan, then the weighted average rate of interest of the loan portfolio of the generating company or the transmission licensee as a whole shall be considered.*

*Provided that the rate of interest on the loan for the installation of the emission control system commissioned subsequent to date of commercial operation of the generating station or unit thereof, shall be the weighted average rate of interest of the actual loan portfolio of the emission control system, and in the absence of the actual loan portfolio, the weighted average rate of interest of the generating company as a whole shall be considered, subject to a ceiling of 14%;*

*Provided further that if the generating company or the transmission licensee, as the case may be, does not have any actual loan, then the rate of interest for a loan shall be considered as 1-year MCLR of the State Bank of India as applicable as on April 01, of the relevant financial year.*

(6) *The interest on the loan shall be calculated on the normative average loan of the year by applying the weighted average rate of interest.*

(7) *The changes to the terms and conditions of the loans shall be reflected from the date of such re-financing.”*

43. The Petitioner has submitted that IoL has been calculated based on its actual loan portfolio and interest rates prevailing as on 1.4.2024. Accordingly, the IoL has been calculated based on the actual interest rate of various loans deployed for each year in accordance with



the 2024 Tariff Regulations. The Petitioner has prayed that the change in interest rate due to the floating rate of interest applicable, if any, during the 2024-29 tariff period will be adjusted. Accordingly, the floating interest rate, if any, shall be considered at the time of truing-up.

44. We have considered the submissions of the Petitioner. The IoL has been worked out in accordance with Regulation 32 of the 2024 Tariff Regulations and allowed for the combined asset for the 2024-29 tariff period as follows:

(₹ in lakh)						
Sl. No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
A	Gross Normative Loan	5984.85	5984.85	5984.85	5984.85	5984.85
B	Cumulative Repayments up to Previous Year	5892.41	5984.85	5984.85	5984.85	5984.85
C	Net Loan-Opening (A-B)	92.44	0.00	0.00	0.00	0.00
D	Addition due to ACE	0.00	0.00	0.00	0.00	0.00
E	Repayment during the year	92.44	0.00	0.00	0.00	0.00
F	Net Loan-Closing (C+D-E)	0.00	0.00	0.00	0.00	0.00
G	Average Loan (C+F)/2	46.22	0.00	0.00	0.00	0.00
H	Weighted Average Rate of Interest on Loan (In %)	8.854	8.933	9.012	9.007	9.023
I	<b>Interest on Loan (G*H)</b>	<b>4.09</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

45. Since the Normative Loan stands re-paid as on 1.4.2025, we have not allowed any IoL for the 2025-29 period in accordance with the 2024 Tariff Regulations.

### **Return on Equity (RoE)**

46. Regulations 30 and 31 of the 2024 Tariff Regulations provide as follows:

**“30. Return on Equity:** (1) Return on equity shall be computed in rupee terms, on the equity base determined in accordance with Regulation 18 of these regulations.

(2) Return on equity for existing project shall be computed at the base rate of 15.50% for thermal generating station, transmission system including communication system and run-of river hydro generating station and at the base rate of 16.50% for storage type hydro generating stations, pumped storage hydro generating stations and run-of- river generating station with pondage;

(3) Return on equity for new project achieving COD on or after 01.04.2024 shall be computed at the base rate of 15.00% for the transmission system, including the communication system, at the base rate of 15.50% for Thermal generating station and run-of-river hydro generating





station and at the base rate of 17.00% for storage type hydro generating stations, pumped storage hydro generating stations and run-of-river generating station with pondage;

Provided that return on equity in respect of additional capitalization beyond the original scope, including additional capitalization on account of the emission control system, Change in Law, and Force Majeure shall be computed at the base rate of one-year marginal cost of lending rate (MCLR) of the State Bank of India plus 350 basis points as on 1st April of the year, subject to a ceiling of 14%;

Provided further that:

- i. In case of a new project, the rate of return on equity shall be reduced by 1.00% for such period as may be decided by the Commission if the generating station or transmission system is found to be declared under commercial operation without commissioning of any of the Free Governor Mode Operation (FGMO), data telemetry, communication system up to load dispatch centre or protection system based on the report submitted by the respective RLDC;

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**31. Tax on Return on Equity.** (1) The rate of return on equity as allowed by the Commission under Regulation 30 of these regulations shall be grossed up with the effective tax rate of the respective financial year. The effective tax rate shall be calculated at the beginning of every financial year based on the estimated profit and tax to be paid estimated in line with the provisions of the relevant Finance Act applicable for that financial year to the concerned generating company or the transmission licensee by excluding the income of non-generation or non-transmission business, as the case may be, and the corresponding tax thereon.

Provided that in case a generating company or transmission licensee is paying Minimum Alternate Tax (MAT) under Section 115JB of the Income Tax Act, 1961, the effective tax rate shall be the MAT rate, including surcharge and cess;

Provided further that in case a generating company or transmission licensee has opted for Section 115BAA, the effective tax rate shall be tax rate including surcharge and cess as specified under Section 115BAA of the Income Tax Act, 1961.

(2) The rate of return on equity shall be rounded off to three decimal places and shall be computed as per the formula given below:

$$\text{Rate of pre-tax return on equity} = \text{Base rate} / (1-t)$$

(3) The generating company or the transmission licensee, as the case may be, shall true up the effective tax rate for every financial year based on actual tax paid together with any additional tax demand, including interest thereon, duly adjusted for any refund of tax including interest received from the income tax authorities pertaining to the tariff period 2024-29 on actual gross income of any financial year. Further, any penalty arising on account of delay in deposit or short deposit of tax amount shall not be considered while computing the actual tax paid for the generating company or the transmission licensee, as the case may be.

Provided that in case a generating company or transmission licensee is paying Minimum Alternate Tax (MAT) under Section 115JB, the generating company or the transmission licensee, as the case may be, shall true up the grossed up rate of return on equity at the end of every financial year with the applicable MAT rate including surcharge and cess.

Provided that in case a generating company or transmission licensee is paying tax under Section 115BAA, the generating company or the transmission licensee, as the case may



be, shall true up the grossed up rate of return on equity at the end of every financial year with the tax rate including surcharge and cess as specified under Section 115BAA.

Provided that any under-recovery or over recovery of grossed up rate on return on equity after truing up, shall be recovered or refunded to beneficiaries or the long term customers, as the case may be, on a year to year basis.”

47. The Petitioner has submitted that the MAT rate applies to it.

48. We have considered the applicable MAT rate for the RoE, which will be trued-up in accordance with the 2024 Tariff Regulations. The RoE allowed to the combined asset for the 2024-29 tariff period is as follows:

(₹ in lakh)						
Sl. No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
A	Opening Equity	2564.93	2564.93	2564.93	2564.93	2564.93
B	Addition due to ACE	0.00	0.00	0.00	0.00	0.00
C	Closing Equity (A+B)	2564.93	2564.93	2564.93	2564.93	2564.93
D	Average Equity (A+C)/2	2564.93	2564.93	2564.93	2564.93	2564.93
E	Return on Equity (Base Rate) (In %)	15.50	15.50	15.50	15.50	15.50
F	Tax Rate applicable (In %)	<b>17.472</b>	<b>17.472</b>	<b>17.472</b>	<b>17.472</b>	<b>17.472</b>
G	Rate of Return on Equity (In %)	18.782	18.782	18.782	18.782	18.782
H	<b>Return on Equity (D*G)</b>	<b>481.75</b>	<b>481.75</b>	<b>481.75</b>	<b>481.75</b>	<b>481.75</b>

### **Operation and Maintenance Expenses (O&M Expenses)**

49. The O&M Expenses claimed by the Petitioner for the 2024-29 tariff period for the combined asset is as follows:

(₹ in lakh)					
Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
O&M Expenses	388.32	408.85	429.94	452.43	476.80

50. Regulation 36(3) of the 2024 Tariff Regulations provides as follows:

**“36. Operation and Maintenance Expenses:**

.....

**(3) Transmission system:** (a) The following normative operation and maintenance expenses shall be admissible for the transmission system:





<b>Particulars</b>	<b>2024-25</b>	<b>2025-26</b>	<b>2026-27</b>	<b>2027-28</b>	<b>2028-29</b>
<b>Norms for sub-station Bays (Rs Lakh per bay)</b>					
765 kV	41.34	43.51	45.79	48.20	50.73
400 kV	29.53	31.08	32.71	34.43	36.23
220 kV	20.67	21.75	22.90	24.10	25.36
132 kV and below	15.78	16.61	17.48	18.40	19.35
<b>Norms for Transformers/Reactors (Rs Lakh per MVA or MVAR)</b>					
O&M expenditure per MVA or per MVAR (Rs Lakh per MVA or per MVAR)	0.262	0.276	0.290	0.305	0.322
<b>Norms for AC and HVDC lines (Rs Lakh per km)</b>					
Single Circuit (Bundled Conductor with six or more sub-conductors)	0.861	0.906	0.953	1.003	1.056
Single Circuit (Bundled conductor with four or more sub-conductors)	0.738	0.776	0.817	0.860	0.905
Single Circuit (Twin & Triple Conductor)	0.492	0.518	0.545	0.573	0.603
Single Circuit (Single Conductor)	0.246	0.259	0.272	0.287	0.302
Double Circuit (Bundled conductor with four or more sub-conductors)	1.291	1.359	1.430	1.506	1.585
Double Circuit (Twin & Triple Conductor)	0.861	0.906	0.953	1.003	1.056
Double Circuit (Single Conductor)	0.369	0.388	0.409	0.430	0.453
Multi Circuit (Bundled Conductor with four or more sub-conductor)	2.266	2.385	2.510	2.642	2.781
Multi Circuit (Twin & Triple Conductor)	1.509	1.588	1.671	1.759	1.851
<b>Norms for HVDC stations</b>					
HVDC Back-to-Back stations (Rs Lakh per MW)	2.07	2.18	2.30	2.42	2.55
Gazuwaka BTB (Rs Lakh/MW)	1.83	1.92	2.03	2.13	2.24
HVDC bipole scheme (Rs Lakh/MW)	1.04	1.10	1.16	1.22	1.28

Provided that the O&M expenses for the GIS bays shall be allowed as worked out by multiplying 0.70 of the O&M expenses of the normative O&M expenses for bays;

Provided that the O&M expense norms of Double Circuit quad AC line shall be applicable to for HVDC bi-pole line;

Provided that the O&M expenses of  $\pm 500$  kV Mundra-Mohindergarh HVDC bipole scheme (2500 MW) shall be allowed as worked out by multiplying 0.80 of the normative O&M expenses for HVDC bipole scheme;

Provided further that the O&M expenses for Transmission Licensees whose transmission assets are located solely in NE Region (including Sikkim), States of Uttarakhand, Himachal Pradesh, the Union Territories of Jammu and Kashmir and Ladakh, district of Darjeeling of West Bengal shall be worked out by multiplying 1.50 to the normative O&M expenses prescribed above.

(b) The total allowable operation and maintenance expenses for the transmission system shall be calculated by multiplying the number of substation bays, transformer capacity of the



*transformer/reactor/Static Var Compensator/Static Synchronous Compensator (in MVA/MVAr) and km of line length with the applicable norms for the operation and maintenance expenses per bay, per MVA/MVAr and per km respectively.”*

51. We have considered the Petitioner’s submissions. The O&M Expenses for the 2024-29 tariff period have been worked out as per the norms specified in the 2024 tariff Regulations. The O&M Expenses allowed for the 2024-29 tariff period for the combined asset as per Regulation 36 of the 2024 Tariff Regulations are as under:

(₹ in lakh)					
Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
<b>O&amp;M Expenses:</b>					
<b>400 kV Bus Reactor Bays:</b> 1 No. Bay at Hiriya Sub-station, 1 No. Bay at Hosur Sub-station, 1 No. Bay at Hyderabad Sub-station, 1 No. Bay at Kolar Sub-station, 1 No. Bay at Thrissur Sub-station, 1 No. Bay at Salem Sub-station and 1 No. Bay at Sriperumbudur Sub-station.					
<b>No. of Bays</b>	7	7	7	7	7
<b>Norms (₹ lakh/Bay)</b>	29.53	31.08	32.71	34.43	36.23
<b>Total O&amp;M for 400 kV Bays</b>	206.71	217.56	228.97	241.01	253.61
<b>400 kV 63 MVAr Reactor:</b> 1 No. line Reactor at Madurai Sub-station, 1 No. line Reactor at Trichy Sub-station, 1 No. Bus Reactor at Hosur Sub-station, 1 No. Bus Reactor at Salem Sub-station, 1 No. Bus Reactor at Sriperumbudur Sub-station, 1 No. Bus Reactor at Kolar Sub-station, 1 No. Bus Reactor at Hyderabad Sub-station, 1 No. Bus Reactor at Munirabad Sub-station, 1 No. Bus Reactor at the Hiriya Sub-station, 1 No. Bus Reactor at the Udumalpet Sub-station and 1 No. Bus Reactor at the Thiruvananthapuram Sub-station.					
<b>No. of Reactors</b>	11	11	11	11	11
<b>Norms (₹ lakh/MVAr)</b>	0.262	0.276	0.290	0.305	0.322
<b>Total O&amp;M for 400 kV 63 MVAr Reactors:</b>	181.61	191.29	200.97	211.42	223.19
<b>Total O&amp;M Expenses allowed</b>	<b>388.32</b>	<b>408.85</b>	<b>429.94</b>	<b>452.43</b>	<b>476.80</b>

**Interest on Working Capital (IWC)**

52. Regulations 34(1)(d), 34(3) and 34(4) of the 2024 Tariff Regulations provide as follows:

**“34. Interest on Working Capital:** (1) *The working capital shall cover:*

.....

*(d) For Hydro generating station (including Pumped Storage Hydro generating station) and Transmission System:*

- (i) Receivables equivalent to 45 days of annual fixed cost;*
- (ii) Maintenance spares @ 15% of operation and maintenance expenses including security expenses; and*
- (iii) Operation and maintenance expenses, including security expenses for one month.*

.....



(3) Rate of interest on working capital shall be on a normative basis and shall be considered at the Reference Rate of Interest as on 1.4.2024 or as on 1st April of the year during the tariff period 2024- 29 in which the generating station or a unit thereof or the transmission system including communication system or element thereof, as the case may be, is declared under commercial operation, whichever is later:

Provided that in case of truing-up, the rate of interest on working capital shall be considered at Reference Rate of Interest as on 1st April of each of the financial year during the tariff period 2024-29.

(4) Interest on working capital shall be payable on a normative basis, notwithstanding that the generating company or the transmission licensee has not taken a loan for working capital from any outside agency.”

53. The Petitioner has considered the rate of IWC as 11.90% as on 1.4.2024. IWC is worked out in accordance with Regulation 34 of the 2024 Tariff Regulations. The Rate of Interest (RoI) considered is 11.90% (SBI 1-year MCLR applicable as on 1.4.2024 of 8.65% plus 325 basis points) for the FY 2024-25 to FY 2028-29.

54. The components of the working capital and interest allowed thereon under Regulation 34 of the 2024 Tariff Regulations for the 2024-29 tariff period in respect of the combined asset are as under:

(₹ in lakh)						
Sl. No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
A	Working Capital for O&M Expenses (O&M Expenses for one month)	32.36	34.07	35.83	37.70	39.73
B	Working Capital for Maintenance Spares (15% of O&M Expenses)	58.25	61.33	64.49	67.86	71.52
C	Working Capital for Receivables (Equivalent to 45 days of annual fixed cost /annual transmission charges)	129.52	131.65	134.36	136.87	140.39
D	<b>Total Working Capital (A+B+C)</b>	<b>220.13</b>	<b>227.05</b>	<b>234.68</b>	<b>242.44</b>	<b>251.64</b>
E	Rate of Interest for working capital (In %)	11.90	11.90	11.90	11.90	11.90
F	<b>Interest on working capital (D*E)</b>	<b>26.20</b>	<b>27.02</b>	<b>27.93</b>	<b>28.85</b>	<b>29.95</b>



### **Annual Fixed Charges for the 2024-29 Tariff Period**

55. The transmission charges allowed in respect of the combined asset for the 2024-29 tariff period are as follows:

Particulars	(₹ in lakh)				
	2024-25	2025-26	2026-27	2027-28	2028-29
Depreciation	150.20	150.20	150.20	150.20	150.20
Interest on Loan	4.09	0.00	0.00	0.00	0.00
Return on Equity	481.75	481.75	481.75	481.75	481.75
Operation & Maintenance Expenses	388.32	408.85	429.94	452.43	476.80
Interest on Working Capital	26.20	27.02	27.93	28.85	29.95
<b>Total</b>	<b>1050.56</b>	<b>1067.82</b>	<b>1089.82</b>	<b>1113.23</b>	<b>1138.70</b>

### **Filing Fee and Publication Expenses**

56. The Petitioner has claimed reimbursement of the fee paid by it for filing the Petition and publication expenses. The Petitioner has further submitted that it shall be entitled to the reimbursement of the filing fee and the expenses incurred on publication of notices in the application for approval of tariff directly from the beneficiaries or the long-term customers, as the case may be in accordance with Regulation 94(1) of the 2024 Tariff Regulations.

57. We have considered the Petitioner's submissions. The Petitioner is entitled to reimbursement of the fees paid for filing the Petition and publication expenses incurred on this count directly from the beneficiaries or long-term customers, as the case may be.

### **Fees and Charges of CTUIL**

58. The Petitioner has submitted that as per Regulation 99 of the 2024 Tariff Regulations, the fees and charges of the Central Transmission Utility of India Limited (CTUIL) may be allowed separately through a separate regulation. The Petitioner has further submitted that in the absence of such regulation, the expenses of CTUIL will be borne by the Petitioner, which will be recovered by the Petitioner as additional O&M Expenses through a separate Petition at the end of the tariff period.



59. It is apt here to refer to Regulation 99 of the 2024 Tariff Regulations, which provides as under:

***“99. Special Provisions relating to Central Transmission Utility of India Ltd. (CTUIL): The fee and charges of CTUIL shall be allowed separately by the Commission through a separate regulation:***

*Provided that until such regulation is issued by the Commission, the expenses of CTUIL shall be borne by Power Grid Corporation of India Ltd. (PGCIL) which shall be recovered by PGCIL as additional O&M expenses through a separate petition.”*

60. We have considered the Petitioner’s submissions and perused Regulation 99 of the 2024 Tariff Regulations. In view of the explicit provision made under Regulation 99 of the 2024 Tariff Regulations, we permit the Petitioner, i.e., PGCIL, to bear the fees and charges expenses of CTUIL and recover the same as an additional O&M Expenses through a separate Petition until such regulation is notified and issued by the Commission.

#### **License Fee and RLDC Fees and Charges**

61. The Petitioner has claimed reimbursement of the license fee, RLDC Fees, and Charges. The Petitioner is allowed the reimbursement of the license fee in accordance with Regulation 94(4) of the 2024 Tariff Regulations for the 2024-29 tariff period. The Petitioner is also allowed to recover the RLDC fee and charges from the beneficiaries in terms of Regulation 94(3) of the 2024 Tariff Regulations for the 2024-29 tariff period.

#### **Goods and Services Tax**

62. The Petitioner has submitted that the transmission charges claimed herein are exclusive of GST, and in case the GST is levied in the future, the same shall be additionally paid by the Respondents and be charged and billed separately by the Petitioner. It is also prayed that additional taxes, if any, are paid by the Petitioner on account of the demand from the Government/ statutory authorities, and the Commission may allow the same to be recovered from the beneficiaries.



63. We have considered the submissions of the Petitioner. Since GST is not levied on the transmission service at present, we are of the view that the Petitioner's prayer on this count is premature.

**Security Expenses, Insurance, and Capital Spares**

64. The Petitioner has submitted that as per Regulation 36(3)(d) of the 2024 Tariff Regulations, the security expenses and capital spares of more than ₹10 lakh and insurance expenses arrived through the competitive bidding for the transmission system and associated communication system shall be allowed by the Commission separately after prudence check. As regards the security expenses for the combined asset, the Petitioner has submitted that it shall file a separate Petition for the truing-up of security expenses from 1.4.2019 to 31.3.2024 under Regulation 35(3)(c) of the 2019 Tariff Regulations and recovery of security expenses from 1.4.2024 to 31.3.2029 under Regulation 36(3)(d) of the 2024 Tariff Regulations. According to the Petitioner, the security expenses regarding the combined asset are not claimed in the instant Petition.

65. The Petitioner has also submitted that no insurance expenses have been claimed in the instant Petition and it shall file a separate Petition for claiming the overall insurance expenses and consequential Interest on Working Capital (IWC) on the same, considering the actual insurance expenses incurred by it for the FY 2023-24 after escalating the same at 5.25% per annum to arrive at the estimated insurance expenses for the financial years 2024-25, 2025-26, 2026-27, 2027-28, and 2028-29.

66. It is noticed that the Petitioner has not claimed capital spares for the combined asset in the instant Petition for the 2024-29 tariff period. However, the Petitioner has submitted that it shall file a separate Petition for the capital spares consumed and consequential IWC thereon



on an actual basis for the 2024-29 tariff period as per the 2024 Tariff Regulations. The Petitioner has also submitted that it has filed Petition No. 45/MP/2024, claiming therein capital spares for the 2019-24 tariff period as per the 2019 Tariff Regulations.

67. We have considered the Petitioner's submissions and have perused the documents available on the record. We deem it proper here to refer to Regulation 36(3)(d) of the 2024 Tariff Regulations which provides as follows:

*"36(3)*

*(d) The Security Expenses, Capital Spares individually costing more than Rs. 10 lakh and Insurance expenses arrived through competitive bidding for the transmission system and associated communication system shall be allowed separately after prudence check: Provided that in case of self insurance, the premium shall not exceed 0.09% of the GFA of the assets insured:*

*Provided that the transmission licensee shall submit the along with estimated security expenses based on assessment of the security requirement, capital spares and insurance expenses, which shall be trued up based on details of the year-wise actuals along with appropriate justification for incurring the same and along with confirmation that the same is not claimed as a part of additional capitalisation or consumption of stores and spares and renovation and modernization."*

68. On perusal of Regulation 36(3)(d) of the 2024 Tariff Regulations and considering the Petitioner's submissions, the Petitioner is allowed to file a single consolidated Petition comprising security expenses, capital spares individually costing more than ₹10 lakh, and insurance expenses on estimated basis as per the 2024 Tariff Regulations for the 2024-29 tariff period.

### **Sharing of Transmission Charges**

69. The billing, collection, and disbursement of the transmission charges for the combined asset shall be recovered in terms of provisions of the 2020 Sharing Regulations as provided in Regulation 57 of the 2019 Tariff Regulations for the 2019-24 tariff period and Regulation 78 of the 2024 Tariff Regulations for the 2024-29 tariff period.



70. To summarize:

- a) The trued-up Annual Fixed Charges approved for the 2019-24 tariff period in respect of the combined asset are as follows:

(₹ in lakh)					
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
AFC	1345.81	1311.67	1278.06	1246.45	926.03

- b) The Annual Fixed Charges allowed in respect of the combined asset for the 2024-29 tariff period are as follows:

(₹ in lakh)					
Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
AFC	1050.56	1067.82	1089.82	1113.23	1138.70

71. Annexures to this order form part of the order.

72. This order disposes of Petition No. 358/TT/2024 in terms of the above discussions and findings.

**sd/-**  
**(Harish Dudani)**  
**Member**

**sd/-**  
**(Ramesh Babu V.)**  
**Member**

**sd/-**  
**(Jishnu Barua)**  
**Chairperson**





## Weighted Average Rate of Depreciation for the 2019-24 tariff period

(₹ in lakh)

Capex	Capital Cost as on 1.4.2019	ACE					Capital Cost as on 31.3.2024	Depreciation Rate	Annual Depreciation				
		2019-20	2020-21	2021-22	2022-23	2023-24			2019-20	2020-21	2021-22	2022-23	2023-24
Freehold Land	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	0.00	0.00	0.00	0.00	Spread Over depreciation
Leasehold Land	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.34%	0.00	0.00	0.00	0.00	
Building & Other Civil Works	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.34%	0.00	0.00	0.00	0.00	
Transmission Line	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.28%	0.00	0.00	0.00	0.00	
Sub-Station Equipments	8549.78	0.00	0.00	0.00	0.00	0.00	8549.78	5.28%	451.43	451.43	451.43	451.43	
PLCC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.33%	0.00	0.00	0.00	0.00	
IT Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.00%	0.00	0.00	0.00	0.00	
<b>Total</b>	<b>8549.78</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>8549.78</b>		<b>451.43</b>	<b>451.43</b>	<b>451.43</b>	<b>451.43</b>	<b>-</b>
								<b>Average Gross Block</b>	8549.78	8549.78	8549.78	8549.78	8549.78
								<b>WAROD (In %)</b>	5.280	5.280	5.280	5.280	Spread Over depreciation



**Annexure-II**

**Weighted Average Rate of Depreciation for the 2024-29 tariff period**

(₹ in lakh)

Capex	Capital Cost as on 1.4.2024	ACE					Capital Cost as on 31.3.2029	Depreciation Rate	Annual Depreciation					
		2024-25	2025-26	2026-27	2027-28	2028-29			2024-25	2025-26	2026-27	2027-28	2028-29	
Freehold Land	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	Spread over depreciation					
Leasehold Land	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.34%						
Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.34%						
Transmission Line	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.28%						
Substation	8549.78	0.00	0.00	0.00	0.00	0.00	8549.78	5.28%						
PLCC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.00%						
IT Equipment	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.00%						
<b>Total</b>	<b>8549.78</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>8549.78</b>			-	-	-	-	-
								<b>Average Gross Block</b>	12794.06	12794.06	12794.06	12794.06	12794.06	
								<b>WAROD (In %)</b>	Spread over depreciation					

