# CENTRAL ELECTRICITY REGULATORY COMMISSION NEW DELHI

Petition No. 109/TT/2025

Coram:

Shri Ramesh Babu V., Member Shri Harish Dudani, Member

Date of Order: 18.03.2025

#### In the matter of:

Approval under Section 62 read with Section 79 (1) (d) of Electricity Act, 2003 and Regulation 15 (1) (a) and Regulation 23 of Central Electricity Regulatory Commission (Conduct of Business) Regulations, 2023 read with Central Electricity Regulatory Commission (Terms and Condition of Tariff Regulations) 2019 and Central Electricity Regulatory Commission (Terms and Condition of Tariff Regulations) 2024 for truing up of Transmission tariff for 2019-24 and determination of transmission tariff for 2024-29 tariff block for Asset under "LILO of Bongaigaon-Malda at Siliguri and Sub-station at Siliguri (New)" in the Eastern Region.

#### And in the matter of:

## **Power Grid Corporation of India Limited,**

"Saudamini", Plot No. 2, Sector-29, Gurgaon-122001 (Haryana).

...Petitioner

Vs.

# 1. Bihar State Power (Holding) Company Limited,

Vidyut Bhawan, Bailey Road, Patna - 781001, Assam

## 2. West Bengal State Electricity Distribution Company Limited,

Bidyut Bhawan, Bidhan Nagar, Block DJ, Sector-II, Salt Lake City, Kolkata - 700 091, West Bengal

## 3. Grid Corporation of Orissa Limited,

Shahid Nagar, Bhubaneswar - 751 007, Odisha

#### 4. Damodar Valley Corporation,

DVC Tower, Maniktala Civic Centre, VIP Road, Kolkata - 700 054, West Bengal

#### 5. Power Department, Govt. of Sikkim,

Gangtok-737101, Sikkim



## 6. Jharkhand Bijli Vitran Nigam Limited,

Engineering Building, H.E.C., Dhurwa, Ranchi - 834 004, Jharkhand.

...Respondents

Parties Present : Shri Mohd. Mohsin, PGCIL

Shri Vishal Sagar, PGCIL Shri A. Naresh Kumar, PGCIL Shri Vivek Kumar Singh, PGCIL

Shri Amit Yadav, PGCIL Shri Arjun Malhotra, PGCIL Shri Piyush Awasthi, PGCIL

#### <u>ORDER</u>

The instant Petition has been filed by Power Grid Corporation of India Limited (PGCIL) for 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 the 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") for Asset under "LILO of Bongaigaon-Malda at Siliguri and Sub-station at Siliguri (New)" in the Eastern Region.

- 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.

Further it is submitted that deferred tax liability before 01.04.2009 shall be recoverable from the beneficiaries or long term customers / DIC as the case may be, as and when the same is materialized as per regulation 67 of 2019 and regulation 89 of 2024 tariff regulation. The petitioner may be allow to recover the deferred tax liability materialized directly without making any application before the commission as provided in the regulations.



- 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 the 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 the 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 the 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 I.A.) for the Transmission System was accorded by the Ministry of Power vide letter dated 02.06.2000 at an estimated Cost of Rs 6319 lakhs including an IDC of Rs 968.00 lakhs (based on 2<sup>nd</sup> Quarter 1999 price level).
  - b) The scope of the transmission project as per Investment Approval is as under:



# **Transmission Lines**

- LILO (10 kms) of one circuit (the circuit not utilised in Purnea project) of Bongaigaon-Malda 400 kV D/C line at Siliguri Sub-station; and
- LILO (5 kms) of Birpara-Siliguri 220 kV D/C line at new Sub-station at Siliguri.

#### **Sub-stations:**

- Establishment of Siliguri (new) Sub-station with 1x315 MVA, 400/220 KV
   ICT and associated bays; and
- Shifting of 1 number of 63 MVAR reactor from Malda Sub-station to Siliguri 400/220 kV sub-station and installation of the same at Bongaigaon-Siliguri line:
- c) The Petitioner had filed the present petition for truing up of transmission tariff for 2019-24 and determination of transmission tariff for 2024-29 tariff block for the following transmission asset in the Easter Region:

Asset Name	COD	Previous Order		
LILO of Bongaigaon – Malda at Siliguri and Sub-station at Siliguri (New)	01.08.2003	Vide order dated 12.09.2021 in Petition No. 472/TT/2019, approved trued-up tariff for 2014-19 period and determined tariff for 2019-24 period.		

- d) The transmission tariff for the instant transmission asset for the period from 1.8.2003 to 31.3.2004 was allowed by the Commission vide order dated 13.7.2005 in Petition No. 138/2002. The transmission tariff for the transmission asset for the period from 1.4.2004 to 31.3.2009 was allowed vide order dated 4.5.2006 in Petition No. 112/2005. The transmission tariff for the transmission asset for the period from 1.4.2009 to 31.3.2014 was allowed vide order dated 23.8.2011 in Petition No. 11/2011. Subsequently, the tariff of 2009-14 period was trued-up and tariff for the period from 1.4.2014 to 31.3.2019 was allowed vide order dated 26.11.2015 in Petition No. 508/TT/2014.
- e) Based on the APTEL Judgment dated 22.1.2007 in Appeal No. 81/2005 and batch matters and dated 13.6.2007 in Appeal No. 139/2006 and batch matters, the Commission, vide order dated 12.09.2021 in Petition No. 472/TT/2019, has revised the transmission tariff for 2001-04, 2004-09 and 2009-14 Tariff Period, trued-up the tariff for 2014-19 tariff period and determined the AFC for 2019-24 tariff Period.



f) The Commission, vide RoP dated 17.2.2025, has sought certain information regarding assets covered in the instant project and currently in use as on date from the Petitioner. The Petitioner, vide affidavit dated 24.02.2025, has submitted the information's as follows:

Project "LILO of Bongaigaon – Malda at Siliguri and Sub-station at 400/220kV Siliguri			
(New)"			
Asset	COD		
LILO of one circuit of 400kV D/C Bongaigaon – Malda at Siliguri	01.08.2003		
(New) along with associated line bays (02 nos) at Siliguri (New) S/S			
LILO of 220kV D/C Birpara – Siliguri at Siliguri (New) along with			
associated line bays (04 nos) at Siliguri (New) S/S			
315 MVA ICT at Siliguri (New) along with associated bays			
02 nos 220kV Bus Section bays at Siliguri (New) S/S			

- g) The Petitioner has also submitted that a portion of "LILO of one ckt of 400kV D/C Bongaigaon Malda at Siliguri (New)" transmission line under the instant project had undergone reconductoring (with HTLS conductor) in FY 2013-24 under a separate project namely "ERSS-I". Under "ERSS-I", reconductoring of 400 kV D/C Siliguri Purnea TL was carried out. This line 400 kV D/C Siliguri Purnea, was formed through (a) LILO of 400 kV Bongaigaon Malda at Siliguri and (b) LILO of 400kV Bongaigaon- Malda at Purnea. Therefore, a portion of this above-mentioned line (at point {iii}) had undergone reconductoring.
- h) The Petitioner has submitted that the corresponding de-capitalization (against the removed original conductor) had been carried out in the new project "ERSS-I" itself. The same was also approved by the Commission vide its orders dated 12.04.2016 and 29.04.2016 in Petition Nos. 104/TT/2013 and 164/TT/2015 respectively {project "ERSS-I" currently filed under Petition No. 455/TT/2024}.
- i) The Petitioner has submitted the details of the additional assets concerned with the instant project as follows:

	Additional assets at 400/220kV SILIGURI (NEW) S/S							
SI. No.	Asset Name	DOCO	Associated Project Name	Covered under Petition No. (latest)				
1	400kV D/C Bongaigaon- Siliguri (New) TL, & 400kV D/C Siliguri (New) -Malda TL	01.04.2000	Transmission System associated with Kathalguri Gas based Combined Cycle Project in NER & ER	Diary – 1124 of 2024				



2	215 MV/A ICT at Ciliauri (Now)	01.10.2006	System Strongthoning	Diary – 1111
	315 MVA ICT at Siliguri (New) along with associated bays		System Strengthening Scheme for Eastern Region (Formerly part of Tala Supplementary Scheme) in ER	of 2024
3	400 kV D/C Tala - Siliguri (New) TL (India portion) along with associated bays at Siliguri (New) S/s, 02x63 MVAR Bus Reactors (I & II) at Siliguri (New) along with associated bays at Siliguri (New) S/s, & LILO of 1 Circuit of 400 kV	01.05.2006	Tala-Siliguri Transmission System in ER	98/TT/2025
	Bongaigaon-Malda at Siliguri (New) Substation along with associated bays at Siliguri (New) S/s,			
4	400 kV Siliguri (New) Substation (Extension)	01.06.2007	"Transmission System associated with TALA HEP East-North Inter connector and Northern Region Transmission System in ER & NR	158/TT/2025
5	400 kV D/C Teesta-V - Siliguri (New) TL along with associated bays at Siliguri S/s	01.02.2008 & 01.06.2008	Transmission System associated with Teesta (Stage-V) HEP in ER	99/TT/2025
6	Installation of 1 no. New 125 MVAR bus reactor at Siliguri (New) 400 kV bus, shifting of 3 nos. 63 MVAR Reactors at 400 kV Siliguri (New) Substation	01.11.2011	ERSS-II in ER	24/TT/2025
7	Installation of New 125 MVAR bus reactor at New Siliguri (New) Sub-station	01.04.2012		
8	Reconductoring of 400 kV D/C Siliguri (New) - Purnea (HTLS Conductor.) Transmission Line	01.06.2013 & 01.04.2014	ERSS-I in ER	455/TT/2024
9	LILO of 400 kV D/C Teesta V- Siliguri (New) Line at Rangpo	24.04.2014 & 31.10.2014	Transfer of Power from Generation Projects in Sikkim to NR / WR Part-B in ER	380/TT/2020
10	02 numbers 400 kV line bays along with 02 numbers 80 MVAR Switchable Line Reactors at 400 kV Siliguri (New) Sub-station (for TBCB	14.11.2014	"Transmission Schemes for enabling import of NER/ER surplus power by NR in ER	11/TT/2025



	line of 400kV D/C Bongaigaon – Siliguri (New))			
11	LILO of both circuit of Siliguri (New) - Purnea 400 kV D/C line at Kishanganj GIS	18.03.2016	Transfer of Power from Generation Projects in Sikkim to NR / WR Part-A in ER	Diary – 629 of 2024
12	02 numbers 400 kV line bays at Siliguri (New) Sub-station (for 400 kV D/C Alipurduar - Siliguri (New) line under TBCB)	01.08.2019	"POWERGRID works associated with Transmission System Strengthening in Indian System for transfer of power from new HEPs in Bhutan in ER	Diary – 755 of 2024
13	Reconductoring of 400kV D/C Rangpo – Siliguri (New) TL along with modification of 400kV bays equipment at Siliguri (New) S/s.	31.03.2021	ERSS-XX in ER	09/TT/2023
14	315 MVA ICT along with associated 400kV AIS bay and 220kV GIS bay at Siliguri (New) S/s.	02.03.2022	ERSS-XVII Part-B in ER	Diary – 538 of 2024

j) The Commission, vide order dated 12.9.2021 in Petition No. 472/TT/2019, had allowed the following Annual Fixed cost (AFC) for the instant transmission assets for the 2019-24 Tariff period and the same is as follows:

(₹ in lakh)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Depreciation	73.27	73.27	73.27	73.27	73.27
Interest on Loan	48.84	42.74	36.66	30.30	23.94
Return on Equity	116.54	116.54	116.54	116.54	116.54
Interest on Working Capital	19.81	18.96	18.11	18.56	18.99
O&M Expenses	372.33	385.54	399.08	413.21	427.43
Total	630.79	637.04	643.66	651.88	660.17

- 4. The Respondents include Distribution Licensees, Power Departments, and Transmission Licensees that receive transmission services from the Petitioner, primarily benefiting the Eastern 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. None of the Respondents have filed any reply in the matter.

- 6. The hearing in the matter was held on 12.2.2025 and the order was reserved.
- 7. This order is being issued considering the Petitioner's submissions in the Petition vide affidavit dated 30.7.2024.
- 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 transmission asset for the 2019-24 period are as follows:

(₹ in lakh)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Depreciation	73.26	73.27	73.26	73.28	73.25
Interest on Loan	48.84	42.73	36.66	30.30	23.94
Return on Equity	116.54	116.54	116.54	116.54	116.54
Interest on Working Capital	19.82	18.96	18.11	18.56	21.75
O&M Expenses	372.33	385.54	399.08	413.22	427.44
Total	630.79	637.04	643.65	651.90	662.92

10. The details of the trued-up Interest on Working Capital (IWC) claimed by the Petitioner in respect of the transmission asset for the 2019-24 period are as follows:

(₹ in lakh)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
O&M Expenses	31.03	32.13	33.26	34.44	35.62
Maintenance Spares	55.85	57.83	59.86	61.98	64.12
Receivables	77.56	78.54	79.35	80.37	81.51
Total Working Capital	164.44	168.50	172.47	176.79	181.25
Rate of Interest (in %)	12.05	11.25	10.50	10.50	12.00
Interest on Working Capital	19.82	18.96	18.11	18.56	21.75



## Capital Cost for the 2019-24 Tariff Period

- 11. The Commission, vide order dated 12.09.2021 in Petition No. 472/TT/2019, had trued-up the tariff for 2014-19 period and granted the tariff for 2019-24 tariff period. The capital cost of ₹4414.32 lakh was approved by the Commission for the transmission asset as on 31.3.2019 in Petition No. 472/TT/2019 and the same has been considered as opening capital cost as on 1.4.2019 for the purpose of truing-up of transmission tariff for 2019-24 period in accordance with Regulation 19 of the 2019 Tariff Regulations in the instant Petition.
- 12. The Petitioner has not claimed Additional Capital Expenditure (ACE) for the 2019-24 tariff period related to the transmission asset in the instant true-up Petition.
- 13. We have considered the submissions of the Petitioner. The Capital Cost claimed by the Petitioner as on 31.3.2024 is allowed as ₹4414.32 lakhs. The detail of the Capital Cost allowed as on 31.3.2019 and as on 31.3.2024 is as follows:

Tariff Period 20	19-24			
				(Rs. In Lakh)
Apportioned Approved Cost as per FR/RCE	Expenditure 31.3.2019	as on	Expenditure during 2019-24 Tariff Block	Actual Capital Cost as on 31.3.2024
FR/RGE			2019-24	
6319.00/NA		4414.32	0.00	4414.32

#### **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 the tariff of the transmission asset for the 2019-24 tariff period is as follows:

	Capital Cost as	on 1.4.2019	Capital Cost as on 31.3.2024		
Funding	₹ (in lakh)	%	₹ (in lakh)	%	
Debt	3793.85	85.94	3793.85	85.94	
Equity	620.47	14.06	620.47	14.06	
Total	4414.32	100.00	4414.32	100.00	



# **Depreciation**

- 15. The depreciation has been worked out considering the admitted capital expenditure as on 01.04.2019 and thereafter up to 31.03.2024. The Weighted Average Rate of Depreciation (WAROD) has been worked out for the transmission asset as per the rates of depreciation specified in the 2019 Tariff Regulations. Further, the transmission asset has already completed 12 years of life as on 01.04.2019, the remaining depreciable value of ₹ 805.94 lakh as on 01.04.2019 has been spread over the balance useful life of the asset in accordance with the Tariff Regulations 2019.
- 16. The depreciation allowed for the transmission asset is as follows:

SI. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Α	Opening Gross Block	4414.32	4414.32	4414.32	4414.32	4414.32
В	Addition during the year 2019- 24 due to projected ACE	0.00	0.00	0.00	0.00	0.00
С	Closing Gross Block (A+B)	4414.32	4414.32	4414.32	4414.32	4414.32
D	Average Gross Block (A+C)/2	4414.32	4414.32	4414.32	4414.32	4414.32
E	Average Gross Block (90% depreciable assets)	4414.32	4414.32	4414.32	4414.32	4414.32
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%)	3915.51	3915.51	3915.51	3915.51	3915.51
Н	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)	3915.51	3915.51	3915.51	3915.51	3915.51
J	Weighted average rate of Depreciation (WAROD) (in %)		Spread	d-over depre	eciation	
K	Lapsed useful life at the beginning of the year (Year)	15	16	17	18	19
L	Balance useful life at the beginning of the year (Year)	11	10	9	8	7
M	Depreciation during the year	73.27	73.27	73.27	73.27	73.27
N	Cumulative Depreciation at the end of the year (M+N)	3182.84	3256.11	3329.37	3402.64	3475.91
0	Remaining Aggregate Depreciable Value at the end of the year(I-N)	732.68	659.41	586.14	512.87	439.61



17. The details of depreciation allowed vide order dated 12.09.2021 in Petition No. 472/TT/2019, depreciation claimed in the instant Petition, and trued-up depreciation allowed for the transmission asset in the instant order are as follows:

(₹ in lakh)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Allowed vide order dated 12.09.2021 in	73.27	73.27	73.27	73.27	73.27
Petition No. 472/TT/2019					
Claimed by the Petitioner in the instant	73.26	73.27	73.26	73.28	73.25
Petition					
Allowed after truing-up in this order	73.27	73.27	73.27	73.27	73.27

## 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 rate of interest prevailed. Interest on Loan (IOL) has been calculated based on the actual interest rate submitted by the Petitioner in accordance with Regulation 32 of the 2019 Tariff Regulations. Further the Petitioner has submitted that there is 'Nil' amount of actual opening loan as on 1.4.2022. However, the Petitioner has claimed the Weighted Average Rate of loL based on the last available Weighted Average Rate of Interest. Accordingly, last available Weighted Average Rate of Interest has been considered for the purpose of tariff for FY 2022-23 to FY 2023-24. The trued-up IOL allowed in respect of the transmission asset is as follows:

SI. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Α	Gross Normative Loan	3793.85	3793.85	3793.85	3793.85	3793.85
В	Cumulative Repayments up to Previous Year	3188.34	3261.61	3334.88	3408.14	3481.41
С	Net Loan-Opening (A-B)	605.51	532.24	458.97	385.70	312.44
D	Addition due to ACE	0.00	0.00	0.00	0.00	0.00
Е	Repayment during the year	73.27	73.27	73.27	73.27	73.27
F	Net Loan-Closing (C+D-E)	532.24	458.97	385.70	312.44	239.17
G	Average Loan (C+F)/2	568.87	495.61	422.34	349.07	275.80
	Weighted Average Rate of	8.585	8.622	8.680	8.680	8.680
Н	Interest on Loan (in %)					
I	Interest on Loan (G*H)	48.84	42.73	36.65	30.29	23.93



19. The details of IoL allowed vide order dated 12.09.2021 in Petition No. 472/TT/2019, IoL claimed in the instant Petition, and trued-up IoL allowed for the transmission asset in the instant order are as follows:

(₹ in lakh)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Allowed vide order dated 12.09.2021 in	48.84	42.74	36.66	30.30	23.94
Petition No. 472/TT/2019					
Claimed by the Petitioner in the instant	48.84	42.73	36.66	30.30	23.94
Petition					
Allowed after truing-up in this order	48.84	42.73	36.65	30.29	23.93

### 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 the FY 2019-20 and FY 2020-21 and the income has been assessed under the MAT (115JB of the Income Tax Act, 1961). The Petitioner has further submitted that the Income Tax Returns (ITR) have been filed for the FY 2021-22, FY 2022-23and FY 2023-24 (submitted in Petition No. 401/TT/2024).
- 21. The Petitioner has further submitted that it is liable to pay the income tax at MAT rates (17.472%, i.e., 15% Income Tax +12% Surcharge on Income Tax+4% Health and Education Cess on Income Tax and Surcharge) 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

22. We noted that the entities covered under the MAT regime are paying the Income Tax as per the MAT rates notified for the respective financial year under the IT Act, 1961, which is levied on the book profit of the entity computed in terms of



Section 115 JB of the IT Act, 1961. Section 115 JB (2) defines book profit as net profit in the statement of Profit and Loss prepared in accordance with the Schedule-II of the Companies Act, 2013, subject to some additions and deductions as mentioned in the IT Act, 1961. Since, the Petitioner has been paying the MAT rates of the respective financial year, the notified MAT rates for the respective financial year shall be considered as an effective tax rate for the purpose of grossing up of the RoE for truing up of the 2019-24 tariff period in terms of the provisions of the 2019 Tariff Regulations. Interest imposed on any additional income tax demand as per the Assessment Order of the Income Tax Authorities shall be considered on the actual payment. However, the penalty (for default on the part of the Assessee), if any, imposed shall not be taken into the account for the purpose of grossing up of the rate of RoE. Any under-recovery or over-recovery of the grossed-up rates on the RoE after truing up, shall be recovered or refunded to the beneficiaries or the long-term customers as the case may be on year to year basis. Therefore, the following effective tax rate based on the notified MAT rates are considered for the purpose of grossing up of the rate of RoE:

Year	Notified rates (in %) (inclusive surcharge Cess)	MAT of &	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

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

SI. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Α	Opening Equity	620.47	620.47	620.47	620.47	620.47
В	Addition due to ACE	0.00	0.00	0.00	0.00	0.00
С	Closing Equity (A+B)	620.47	620.47	620.47	620.47	620.47



SI. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
D	Average Equity (A+C)/2	620.47	620.47	620.47	620.47	620.47
	Return on Equity (Base	15.500	15.500	15.500	15.500	15.500
E	Rate) (%)					
F	Tax Rate applicable (%)	17.472	17.472	17.472	17.472	17.472
	Rate of Return on Equity	18.782	18.782	18.782	18.782	18.782
G	(%)					
Н	Return on Equity (D*G)	116.54	116.54	116.54	116.54	116.54

24. The details of RoE allowed vide order dated 12.9.2021 in Petition No. 472/TT/2019, RoE claimed in the instant Petition, and trued-up RoE allowed for the transmission asset in the instant order are as follows:

(₹ in lakh)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Allowed vide order dated 12.9.2021 in	116.54	116.54	116.54	116.54	116.54
Petition No. 472/TT/2019					
Claimed by the Petitioner in the instant	116.54	116.54	116.54	116.54	116.54
Petition					
Allowed after truing-up in this order	116.54	116.54	116.54	116.54	116.54

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

25. The Commission vide order dated 12.09.2021 in Petition No. 472/TT/2019 had allowed the following O&M expenses and the same is as follows:

(₹ in lakh)

2	2019-20	2020-21	2021-22	2022-23	2023-24
	372.33	385.54	399.08	413.21	427.43

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

(₹ in lakh)

2019-20	2020-21	2021-22	2022-23	2023-24	
372.33	385.54	399.08	413.22		427.44

27. We have considered the Petitioner's submission. It has been observed that the O&M Expenses claimed by the Petitioner in the instant true-up Petition are as per Regulation 35(3) of the 2019 Tariff Regulations. The O&M Expenses has been worked out as follows:



(₹ in lakh)

					₹ in lakh)					
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24					
Transmission Line: 400 k										
LILO of one Circuit of 400 kV D	C Twin Bongai	gaon-Malda Li	ne at New Silig	uri S/s– ( line l	ength: 5 kms)					
Norms as per Regulation (Rs. Per km)	0.881	0.912	0.944	0.977	1.011					
O&M Expenses	4.41	4.56	4.72	4.89	5.06					
Transmission Line:										
LILO of 220 kV D/C Single	conductor Bir	para-Siliguri L kms)	ine at New S	iliguri S/s– (L	ine length:3					
Norms as per Regulation (Rs. Per km)	0.377	0.391	0.404	0.419	0.433					
O&M Expenses	1.13	1.17	1.21	1.26	1.30					
Substations: ICTs 1 No 315 MVA, 400/220 kV at Binaguri / New Siliguri Substation										
Norms as per Regulation (Rs. Per MVA)	0.358	0.371	0.384	0.398	0.411					
O&M Expenses	112.77	116.865	120.96	125.37	129.465					
Substations: 400 kV Bays  1 No 400 kV Line Bay for 1 No 400 kV Line Bay for 1 No 400 kV Bay for IC	or Malda at Bi	naguri / New	Siliguri S/s							
Norms as per Regulation (Rs. Per Bay)	32.15	33.28	34.45	35.66	36.91					
O&M Expenses	96.45	99.84	103.35	106.98	110.73					
Substations: 220 kV Bays  2 Nos 220 kV Bus Section Bays at Binaguri / New Siliguri Substation  Nos 220 kV Line Bay-I & Bay-II for Birpara at Binaguri / New Siliguri Substation  Nos 220 kV Line Bay-I & Bay-II for Siliguri at Binaguri / New Siliguri Substation  Nos 220 kV Bay for ICT for New Siliguri at Binaguri / New Siliguri Substation										
Norms as per Regulation	22.51	23.3	24.12	24.96	25.84					
(Rs. Per Bay) O&M Expenses	157.57	163.1	168.84	174.72	180.88					
Total O&M Expenses allowed	372.33	385.54	399.08	413.21	427.43					

28. Accordingly, the details of O&M Expenses allowed vide order dated 12.9.2021 in Petition No. 472/TT/2019, O&M Expenses claimed in the instant petition, and trued-up O&M Expenses allowed for the transmission asset in the instant order are as follows:



(`in lakh)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Approved vide order dated 12.09.2021 in Petition No. 472/TT/2019	372.33	385.54	399.08	413.21	427.43
As claimed by the Petitioner in the instant petition.	372.33	385.54	399.08	413.22	427.44
Allowed in the instant true-up Petition	372.33	385.54	399.08	413.21	427.43

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

- 29. 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 FY 2019-20, 11.25% (SBI 1-year MCLR applicable as on 1.4.2020 of 7.75% plus 350 basis points) for FY 2020-21, 10.50% (SBI 1-year MCLR applicable as on 1.4.2021 of 7.00% plus 350 basis points) for the FYs 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 the FY 2023-24.
- 30. The components of the working capital and interest allowed thereon for the transmission asset is as follows:

SI.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
No.						
	Working Capital for O&M Expenses	31.03	32.13	33.26	34.44	35.62
Α	(O&M expenses for one month)					
	Working Capital for Maintenance	55.85	57.83	59.86	61.98	64.12
В	Spares (15% of O&M expenses)					
	Working Capital for Receivables	77.56	78.54	79.35	80.37	81.51
	(Equivalent to 45 days of annual					
	fixed cost /annual transmission					
С	charges)					
	Total Working Capital					
D	(A+B+C)	164.44	168.50	172.47	176.79	181.25
	Rate of Interest for working capital	12.05	11.25	10.50	10.50	12.00
Е	(%)					
	Interest on working capital					
F	(D*E)	19.81	18.96	18.11	18.56	21.75



31. The details of IWC allowed vide order dated 12.9.2021 in Petition No. 472/TT/2019, IWC claimed in the instant Petition, and trued-up IWC allowed for the transmission asset in the instant order are as follows:

(₹ in lakh)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Allowed vide order dated 12.9.2021 in	19.81	18.96	18.11	18.56	18.99
Petition No. 472/TT/2019					
Claimed by the Petitioner in the instant	19.81	18.96	18.11	18.56	18.99
Petition					
Allowed after truing-up in this order	19.81	18.96	18.11	18.56	21.75

## <u>Trued-up Annual Fixed Charges for the 2019-24 Tariff Period</u>

32. Accordingly, the transmission charges allowed after truing-up for the 2019-24 tariff period in respect of the transmission asset are as follows:

(`in lakh)

					111 1011 111,
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Depreciation	73.27	73.27	73.27	73.27	73.27
Interest on Loan	48.84	42.73	36.66	30.30	23.94
Return on Equity	116.54	116.54	116.54	116.54	116.54
Operation & Maintenance Expenses	372.33	385.54	399.08	413.22	427.44
Interest on Working Capital	19.81	18.96	18.11	18.56	21.75
Total	630.79	637.04	643.66	651.89	662.94

33. The details of annual transmission charges allowed vide order dated 12.9.2021 in Petition No. 472/TT/2019, annual transmission charges claimed in the instant Petition, and trued-up annual transmission charges allowed in the instant order in respect of the transmission asset are as follows:

(₹ in lakh)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Allowed vide order dated order dated	630.79	637.04	643.66	651.88	660.17
12.9.2021 in Petition No.					
472/TT/2019					
Claimed by the Petitioner in the	630.79	637.04	643.65	651.90	662.92
instant Petition					
Allowed after truing-up in this order	630.79	637.04	643.66	651.89	662.94



# <u>DETERMINATION OF ANNUAL FIXED CHARGES FOR THE 2024-29 TARIFF PERIOD</u>

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

(`in lakh)

Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
Depreciation	73.28	73.25	73.29	73.25	73.29
Interest on Loan	17.58	11.22	4.86	0.84	0.00
Return on Equity	116.54	116.54	116.54	116.54	116.54
Interest on Working Capital	16.92	17.56	18.22	18.94	19.81
O&M Expenses	321.23	338.12	355.78	374.38	394.28
Total	545.55	556.69	568.69	583.95	603.92

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

(`in lakh)

					,
Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
O&M Expenses	26.77	28.18	29.65	31.20	32.86
Maintenance Spares	48.18	50.72	53.37	56.16	59.14
Receivables	67.26	68.63	70.11	71.80	74.46
Total Working Capital	142.21	147.53	153.13	159.16	166.46
Rate of Interest (in %)	11.90	11.90	11.90	11.90	11.90
Interest on Working Capital	16.92	17.56	18.22	18.94	19.81

## **Capital Cost**

- 36. 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;
- (I) 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
- (0) .....
- (p) .....
- (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;
  - (d) to (h) .....
  - (i) Expenditure on account of change in law and force majeure events;

(4)						••	
<i>(</i> 5)	_	_	_	_	_		

- (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 decapitalised 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. (d) .......



- (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."
- 37. The capital cost approved as on 31.3.2024 is ₹4414.32 lakh. Therefore, the capital cost of ₹4414.32 lakh lakhs as on 31.3.2024 has been considered as the opening capital cost as on 1.4.2024 for the purpose of determination of transmission tariff for the 2024-29 period in accordance with Regulation 19 of the 2024 Tariff Regulations.

## **Additional Capital Expenditure**

38. The Petitioner has not claimed ACE in respect of the transmission asset for the 2024-29 tariff period. Therefore, the capital cost claimed as on 01.04.2024 of ₹4414.32 lakhs has been considered for determination of tariff for 2024-29 Tariff Period. The detail of the Capital Cost allowed as on 31.3.2024 and as on 31.3.2029 is as follows:

Tariff Period 2024-29							
			(` in lakh)				
Apportioned Approved Cost as per FR/RCE	Expenditure as on 31.3.2024	Expenditure during 2024-29 Tariff Block					
perrivice		2024-29	31.3.2023				
6319.00/NA	4414.32	0.00	4414.32				

#### **Debt Equity Ratio**

- 39. 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 utilized 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."
- 40. 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 ratio considered for the purpose of computation of tariff for the 2024-29 period for the transmission asset are as follows:



Funding	Capital Cost as on 1.4.2024		Capital Cost as on 31.3.2029		
	₹ (in lakh)	%	₹ (in lakh)	%	
Debt	3793.85	85.94	3793.85	85.94	
Equity	620.47	14.06	620.47	14.06	
Total	4414.32	100.00	4414.32	100.00	

### **Depreciation**

- 41. 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;

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) ......

(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.

......

(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.

. . . . . . . .

- (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 decapitalized asset during its useful service........"
- 42. The depreciation has been worked out considering the admitted capital expenditure as on 01.04.2024 and thereafter up to 31.3.2029. The Weighted Average Rate of Depreciation (WAROD) has been worked out for the transmission asset as per the rates of depreciation specified in the 2024 Tariff Regulations. Further, the transmission asset has already completed 12 years of life as on 01.04.2024, the remaining depreciable value of ₹ 439.61 lakh as on 01.04.2024 has been spread over the balance useful life of the asset in accordance with the Tariff Regulations 2024.
- 43. The depreciation allowed for the transmission asset under Regulation 33 of the 2024 Tariff Regulations for the 2024-29 tariff period is as under:

SI. No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
Α	Opening Gross Block	4414.32	4414.32	4414.32	4414.32	4414.32
	Addition during the year 2024-29 due to	0.00	0.00	0.00	0.00	0.00
В	projected ACE					



SI. No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
С	Closing Gross Block (A+B)	4414.32	4414.32	4414.32	4414.32	4414.32
D	Average Gross Block (A+C)/2	4414.32	4414.32	4414.32	4414.32	4414.32
Е	Average Gross Block (90% depreciable assets)	4414.32	4414.32	4414.32	4414.32	4414.32
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%)	3915.51	3915.51	3915.51	3915.51	3915.51
Н	Depreciable value of IT equipment and software (F*100%)	0.00	0.00	0.00	0.00	0.00
	Total Depreciable Value (G+H)	3915.51	3915.51	3915.51	3915.51	3915.51
J	Weighted average rate of Depreciation (WAROD) (in %)		Sprea	ad-over depr	eciation	
K	Lapsed useful life at the beginning of the year (Year)	20	21	22	23	24
L	Balance useful life at the beginning of the year (Year)	6	5	4	3	2
M	Depreciation during the year	73.27	73.27	73.27	73.27	73.27
N	Cumulative Depreciation at the end of the year(M+N)	3549.18	3622.44	3695.71	3768.98	3842.25
0	Remaining Aggregate Depreciable Value at the end of the year (I-N)	366.34	293.07	219.80	146.53	73.27

# **Interest on Loan (IoL)**

- 44. 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."
- 45. The Petitioner has submitted that there is 'Nii' amount of actual opening loan as on 1.4.2024. However, the Petitioner has claimed the Weighted Average Rate of loL based on the last available Weighted Average Rate of Interest. Accordingly, the last available Weighted Average Rate of Interest has been considered for the purpose of tariff in accordance with Regulation 32 of the 2024 Tariff Regulations. The loL allowed in respect of the transmission asset for the 2024-29 tariff period is as follows:

SI. No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
Α	Gross Normative Loan	3793.85	3793.85	3793.85	3793.85	3793.85
	Cumulative Repayments up to	3554.68	3627.95	3701.21	3774.48	3793.85
В	Previous Year					
С	Net Loan-Opening (A-B)	239.17	165.90	92.63	19.37	0.00
D	Addition due to ACE	0.00	0.00	0.00	0.00	0.00
Е	Repayment during the year	73.27	73.27	73.27	19.37	0.00
F	Net Loan-Closing (C+D-E)	165.90	92.63	19.37	0.00	0.00
G	Average Loan (C+F)/2	202.53	129.27	56.00	9.68	0.00
	Weighted Average Rate of Interest	8.680	8.680	8.680	8.680	8.680
Н	on Loan (in %)					
I	Interest on Loan (G*H)	17.58	11.22	4.86	0.84	0.00



46. Since the Normative Loan has already been re-paid as on 01.04.2028, the Interest on Loan (IOL) for 2028-29 in respect of the transmission asset has been calculated as Rs. Nil in accordance with 2024 Tariff Regulations.

## Return on Equity (RoE)

- 47. 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;

....."

"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:

Rate of pre-tax return on equity = 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."

48. The Petitioner has submitted that the MAT rate applies to it. 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 for the transmission asset for the 2024-29 tariff period is as follows:

SI.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
No.						
Α	Opening Equity	620.47	620.47	620.47	620.47	620.47
В	Addition due to ACE	0.00	0.00	0.00	0.00	0.00
С	Closing Equity (A+B)	620.47	620.47	620.47	620.47	620.47
D	Average Equity (A+C)/2	620.47	620.47	620.47	620.47	620.47
	Return on Equity (Base	15.500	15.500	15.500	15.500	15.500
Е	Rate) (%)					
F	Tax Rate applicable (%)	17.472	17.472	17.472	17.472	17.472
	Rate of Return on Equity	18.782	18.782	18.782	18.782	18.782
G	(%)					



SI. No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
Н	Return on Equity (D*G)	116.54	116.54	116.54	116.54	116.54

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

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

(`in lakh)

2024-25	2025-26	2026-27	2027-28	2028-29
321.23	338.12	355.78	374.38	394.28

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:

Particulars	2024-	2025-	2026-	2027-	2028-
Norms for sub-station Bays (Rs Lakh pe	r bay)		~=		
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
Norms for Transformers/Reactors (Rs L	akh per M	VA or M\	/AR)		
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
Norms for AC and HVDC lines (Rs Lakh	per km)				
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
Norms for HVDC stations		·	·		
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 approved for the transmission asset for the 2024-29 tariff period as per Regulation 36 of the 2024 Tariff Regulations are as under:

Particulars	2024-25	2025-26	2026-27	2027-28	2028-29			
Transmission Line: 400 kV D/C Twin								
LILO of One Circuit of 400		0 0		e at New Silig	uri S/s –			
	(line	length: 5 km	s)					
Norms as per Regulation (Rs. Per km)								
O&M Expenses	4.31	4.53	4.77	5.02	5.28			
Transmission Line:								
LILO of 220 kV D/C Single co	onductor Bir	para-Siliguri l	Line at new S	iliguri S/s – (I	ine length:3			
		kms)						
Norms as per Regulation (Rs. Per km)	0.369	0.388	0.409	0.43	0.453			
<b>O&amp;M Expenses</b> 1.11 1.16 1.23 1.29 1.36								
Substations:								
ICTs								



1 No 315 MVA, 400 kV at Binaguri / New Siliguri Substation								
Norms as per Regulation (Rs. Per MVA)	• • • • • • • • • • • • • • • • • • • •							
O&M Expenses         82.53         86.94         91.35         96.075         101.43								

#### **Substations:**

#### 400 kV Bays

- 1 No 400 kV Line Bay for Bongaigaon at Binaguri / New Siliguri S/s
- 1 No 400 kV Line Bay for Malda at Binaguri / New Siliguri S/s
- 1 No 400 kV Bay for ICT for New Siliguri at Binaguri / New Siliguri S/s

Norms as per Regulation (Rs. Per Bay)	29.53	31.08	32.71	34.43	36.23
O&M Expenses	88.59	93.24	98.13	103.29	108.69

#### **Substations:**

#### 220 kV Bays

- 2 Nos 220 kV Bus Section Bays at Binaguri / New Siliguri Substation
- 2 Nos 220 kV Line Bay-I & Bay-II for Birpara at Binaguri / New Siliguri Substation
- 2 Nos 220 kV Line Bay-I & Bay-II for Siliguri at Binaguri / New Siliguri Substation
- 1 No 220 kV Bay for ICT for New Siliguri at Binaguri / New Siliguri Substation

Norms as per Regulation (Rs. Per Bay)	20.67	21.75	22.9	24.1	25.36
O&M Expenses	144.69	152.25	160.3	168.7	177.52
Total O&M Expenses allowed	321.23	338.12	355.78	374.38	394.28

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

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

" <b>34.</b>	Interest on	Working	Capital:	(1)	The worki	ng	capital	shall	cover:
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(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 has been 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 transmission asset is as under:

(`in lakh)

SI.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
No.						
	Working Capital for O&M Expenses	26.77	28.18	29.65	31.20	32.86
Α	(O&M expenses for one month)					
	Working Capital for Maintenance	48.18	50.72	53.37	56.16	59.14
В	Spares (15% of O&M expenses)					
	Working Capital for Receivables	67.26	68.63	70.11	71.80	74.45
	(Equivalent to 45 days of annual					
	fixed cost /annual transmission					
С	charges)					
D	Total Working Capital (A+B+C)	142.21	147.53	153.13	159.16	166.45
	Rate of Interest for working capital	11.90	11.90	11.90	11.90	11.90
Е	(%)	11.90	11.90	11.90	11.90	11.90
F	Interest on working capital (D*E)	16.92	17.56	18.22	18.94	19.81

# Annual Fixed Charges for the 2024-29 Tariff Period

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

Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
Depreciation	73.27	73.27	73.27	73.27	73.27
Interest on Loan	17.58	11.22	4.86	0.84	0.00
Return on Equity	116.54	116.54	116.54	116.54	116.54
Operation & Maintenance Expenses	321.23	338.12	355.78	374.38	394.28
Interest on Working Capital	16.92	17.56	18.22	18.94	19.81
Total	545.54	556.71	568.67	583.97	603.90



## 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 Central Transmission Utility of India Limited (CTUIL)

- 58. The Petitioner has submitted that as per Regulation 99 of the 2024 Tariff Regulations, the fees and charges of the 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 an 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 a regulation is notified and issued by the Commission.

#### **Licence Fee and RLDC Fees and Charges**

61. The Petitioner has claimed reimbursement of the licence fee, RLDC Fees, and Charges. The Petitioner is allowed the reimbursement of the licence 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 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 Petitioner's submissions. 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 separately after prudence check.

- 65. As regards the security expenses of the transmission 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 transmission asset are not claimed in the instant Petition.
- 66. The Petitioner has also submitted that it has not claimed insurance expenses in the instant Petition and has submitted that it shall file a separate Petition for claiming the overall insurance expenses and consequential 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 expense for the FY 2024-25, FY 2025-26, FY 2026-27, FY 2027-28, and FY 2028-29.
- 67. The Petitioner has not claimed capital spares for the transmission asset in the instant Petition for the 2024-29 tariff period. According to the Petitioner, it will 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.
- 68. We have considered the Petitioner's submissions and have perused 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 0.12% 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."

69. 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 of security expenses, capital spares individually costing more than ₹10 lakh and insurance expenses on estimated basis in terms of the 2024 Tariff Regulations for the 2024-29 tariff period.

#### **Sharing of Transmission Charges**

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

#### 71. To summarize,

a. The Trued-up Annual Fixed Charges (AFC) claimed and allowed in respect of the transmission asset for 2019-24 tariff period in this order are as follows:

					(₹ in lakh)
Asset	2019-20	2020-21	2021-22	2022-23	2023-24
Allowed	630.79	637.04	643.66	651.89	662.94

b. The Annual Fixed Charges (AFC) allowed in respect of the transmission asset for 2024-29 tariff period in this order are as follows:



(₹ in lakh)

Particular	2024-25	2025-26	2026-27	2027-28	2028-29
AFC	545.54	556.71	568.67	583.97	603.90
Allowed					

73. This order disposes of Petition No. 109/TT/2025 in terms of the above discussions and findings.

sd/-(Harish Dudani) Member sd/-(Ramesh Babu V.) Member

