

**CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI**

Petition No. 213/TT/2025

Coram:

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

Date of Order: 24.03.2025

In the matter of:

Petition for truing up of the transmission tariff for the 2019-24 tariff period and determination of the transmission tariff for the 2024-29 tariff period for the “Combined Assets under the transmission system associated with the ‘North-West Transmission Corridor Strengthening Scheme’ in both Western and Northern Regions” under Section 62 read with Section 79 (1)(d) of the Electricity Act, 2003 and under Regulation 15 (1)(a) and Regulation 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,
Registered Office: B-9, Qutab Institutional Area,
Katwaria Sarai, New Delhi-110016.
Corporate Centre: “Saudamini”, Plot No. 2,
Sector-29, Gurgaon-122001 (Haryana).

...Petitioner

Vs.

- 1. Uttar Pradesh Power Corporation India Limited,**
Shakti Bhawan, 14, Ashok Marg,
Lucknow-226012
- 2. Ajmer Vidyut Vitran Nigam Limited,**
Corporate Office, Vidyut Bhawan,
Panchsheel Nagar, Makarwali Road,
Ajmer-305004 (Rajasthan)
- 3. Jaipur Vidyut Vitran Nigam Limited,**
132 kV, GSS RVPN; Substation building,
Caligiri Road, Malviya Nagar,
Jaipur-302 005 (Rajasthan)
- 4. Jodhpur Vidyut Vitran Nigam Limited,**
New Power House, Industrial Area,
Jodhpur-342 003 (Rajasthan)



5. **Himachal Pradesh State Electricity Board Limited,**
Vidyut Bhawan,
Kumar House Complex Building II,
Shimla-171004
6. **Punjab State Power Corporation Limited,**
The Mall, PSEB Head Office,
Patiala-147001
7. **Haryana Power Purchase Centre,**
Shakti Bhawan, Sector-6,
Panchkula,
Haryana-134109
8. **Jammu Kashmir Power Corporation Limited,**
220/66/33 kV Gladni SS SLDC Building,
Narwal,
Jammu
9. **BSES Yamuna Power Limited,**
B-Block, Shakti Kiran Building,
(Near Karkadooma Court),
Karkadooma,
New Delhi-110092
10. **BSES Rajdhani Power Limited,**
BSES Bhawan, Nehru Place,
New Delhi
11. **TATA Power Delhi Distribution Limited,**
33 kV Substation Building,
Hudson Lane, Kingsway Camp,
North Delhi-110009
12. **Chandigarh Electricity Department,**
Chandigarh Administration,
Sector -9,
Chandigarh
13. **Uttarakhand Power Corporation Limited,**
Urja Bhawan,
Kanwali Road,
Dehradun
14. **North Central Railway,**
Allahabad
15. **New Delhi Municipal Council,**
Palika Kendra, Sansad Marg,
New Delhi-110002.

...Respondents



Parties Present : Shri Mohd. Mohsin, PGCIL
Shri Vivek Kumar Singh, PGCIL

ORDER

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, in terms of the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 (hereinafter referred to as “the 2019 Tariff Regulations”) and the determination of transmission tariff for the 2024-29 tariff period, in terms of the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 (hereinafter referred to as “the 2024 Tariff Regulations”), in respect of the following assets in the Northern Region (hereinafter referred to as the “Combined Asset”):

Combined Asset	Notional COD
Asset-I: 765 kV Single Circuit (“S/C”) Agra-Gwalior transmission line Circuit-II along with 400 kV bays at Agra and Gwalior Substation; and Asset-II: 400 kV Double Circuit (“D/C”) Zerda-Kankroli line along with associated bays	1.5.2009

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 asset 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 Tariff regulations, 2019 and Regulation 89 of Tariff regulations, 2024. The petitioner may be allowed to recover the deferred tax liability materialized directly without making any application before the Hon’ble 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 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*

and pass such other relief as Hon'ble 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 (IA) for the transmission system was accorded by the Petitioner's Board of Directors, vide Memorandum dated 23.1.2006 at an estimated cost of ₹48310 lakh, including an Interest During Construction ("IDC") of ₹1340 lakh, based on 2nd Quarter, 2005 Price Level.

b) The details of assets considered in the transmission project are as under:

765 kV S/C Agra-Gwalior Transmission Line Circuit-II along with 400 kV bays at Agra and Gwalior Substations.

400 D/C Zerda-Kankroli Line along with associated bays.

4. The Commission allowed transmission tariff of Asset-I for the period from 1.4.2009 to 30.4.2009, and for the Combined Asset for the period from 1.5.2009 to 31.3.2014. The transmission tariff of Asset-I and Combined Asset for the 2009-14 tariff period was trued-up, and the transmission tariff of the Combined Asset for the 2014-19 tariff period was allowed by the Commission vide order dated 24.2.2016 in Petition No. 100/TT/2015.



5. Based on the Revised Cost Estimate (RCE) submitted by the Petitioner, the Commission vide order dated 27.10.2021 in Petition No. 380/TT/2020, trued-up the tariff for the 2009-14 and 2014-19 tariff periods for Asset-I and the Combined Asset, and further determined the tariff for Combined Asset for the 2019-24 tariff period.

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

7. 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.

8. The hearing in the matter was held on 12.2.2025, and the order was reserved.

9. In compliance with the directions of the Commission given vide Record of Proceedings (RoP) dated 12.2.2025, the Petitioner vide affidavit dated 3.3.2025 has submitted that all assets covered under the Petition are in use, with no decapitalization in the 2019-24 and 2024-29 tariff periods, as on date. Further, the Petitioner has submitted the details of other Petitions concerning additional assets at the aforementioned substations as follows:

Name of the Substation	Asset name	COD	Associated Project Name	Covered in Petition no. (Latest)
400/220 kV Zerda Substation (GETCO)	Bay extension at 400/220 kV Ranchhodpura (Vadavi) and Zerda Substation (GETCO) for 400 kV D/C Vadavi-Zerda (WRGL) Transmission Line	1.9.2011	Western Regional System Strengthening Scheme-II in Western Region	Diary No: 1263/2024



	400 kV D/C Zerda-Kankroli Line along with associated bays	1.5.2009	North-West Transmission Corridor Strengthening Scheme in both Western and Northern Regions	213/TT/2025
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400/220 kV Kankroli Substation	Combined Element-1: (i) 400 kV D/C RAPP-Kankroli Transmission Line along with associated bays, (ii) 50MVAR Bus Reactor along with associated bays at Kankroli Substation, and (iii) 400 kV S/C RAPP-Kota Transmission Line along with 80 MVAR Bus Reactor	1.4.2009	Transmission System associated with RAPP 5&6	452/TT/2024
	Combined Element-2: (i) 400/220 kV 315 MVA ICT-II along with associated bays & two no. 220 kV line bays at Kankroli Substation, (ii) 400/220 kV 315 MVA ICT-I along with associated bays & 2 no 220 kV line bays at Kankroli Substation, and (iii) 400/220 kV 315 MVA ICT-I and ICT-II at Kota Substation and 400/220 kV 315 MVA ICT-III at Kankroli Substation along with associated bays at Kota and Kankroli Substations			
	400 kV D/C Zerda-Kankroli Line along with associated bays	1.5.2009	North-West Transmission Corridor Strengthening Scheme in both Western and Northern Regions	213/TT/2025
	400 kV S/C Kankroli-Jodhpur Transmission Line along with associated bays	1.8.2010	System Strengthening Scheme in South-Western Part of Northern Grid (Part-B)	219/TT/2025
	400 kV, 125 MVAR Bus Reactor at Kankroli	1.11.2012	Provision of Bus Reactors in Northern Region	Diary No.- 921/2024
	400/220 kV Kankroli Substation: (+) 400 MVAR/ (-) 300 MVAR SVC	25.12.2016	Static VAR Compensator (SVCs) in Northern region	Diary No.- 911/2024
	Conversion of 50 MVAR Fixed Line Reactor of 400kV Kankroli-Zerda Line to Switchable Line Reactor at kankroli Substation	15.8.2020	Conversion of Fixed Line Reactors into Switchable Line Reactors in Northern Region	Diary No.- 840/2024



765/400/220 kV Gwalior Substation	400 kV Agra- Gwalior 765 kV S/C Transmission Line including respective bays at Agra and Gwalior Substation	1.4.2007	Kahalgaon Stage-II, Phase-I Transmission system in Eastern, Northern Region & Inter - regional link between Northern & Western Region	Diary No: 962/2024
	765 kV S/C Bina-Gwalior Transmission Line with bays	1.4.2007	Transmission System associated with Sipat-II	224/TT/2025
	315 MVA, 400/220/33 kV ICT-I along with associated bays at Gwalior Substation	1.5.2007		
	400 kV 315 ICT-II at Gwalior Substation	1.4.2008		
	04 feeder bays downstream at Gwalior	1.4.2008		
	765 kV S/C AgraGwalior Transmission Line Circuit-II along with 400 kV bays at Agra and Gwalior Substations	1.4.2009	North-West Transmission Corridor Strengthening Scheme in both Western and Northern Regions	213/TT/2025
	765 kV S/C Bina-Gwalior Line-II along with associated bays	1.3.2010	Western Regional System Strengthening Scheme-II	Diary No: 1263/2024
	400 kV 50 MVAR Bus Reactor at Gwalior Substation	1.9.2010		
	400/220 kV Gwalior (Extension) Substation with 1x315MVA ICT along with associated 400/220 kV Bays	1.4.2011	Western Region Strengthening Scheme VI	26/TT/2025
	765 kV, 3X500MVA ICT-II along with associated bays of 765 kV & 400 kV at Gwalior Substation, Up-gradation of existing Gwalior- Agra Ckt II T/L at 765 kV level along with associated bays at Agra Substation & Gwalior Substation, 765 kV, 4 X 500MVA ICT-I at along with associated bays of 765 kV & 400 kV at Gwalior Substation, Upgradation of existing Bina - Gwalior Ckt 1 Transmission Line at 765 kV level along with associated bays at Bina Substation & Gwalior Substation, Upgradation of existing Gwalior- Agra Ckt 1 Transmission Line at 765 kV level along with associated bays at Agra Substation & Gwalior Substation, Up - gradation of existing Bina -Gwalior Ckt 2 TL at 765 kV level along with associated bays at Bina Sub - station & Gwalior Sub -station	1.4.2013	Transmission System associated with Sasan Ultra Mega Power Project (UMPP)	207/TT/2025



	765 kV 240MVAR (3 X 80 MVAR) Bus Reactor at Gwalior along with associated bays of 765 kV	1.2.2014		
765/400/220 kV Gwalior Substation	400 KV 1X125 MVAR Bus Ractor at Gwalior S/s	2.7.2014	Installation of Reactors (Part-II) in Western Region	122/TT/2025
	765 kV S/C Satna-Gwalior Line-1 with associated bays at Satna Substation and line reactor	1.3.2014	Transmission System of Vindhyachal -IV & RIHAND - III {1000MW} Generation Project	Diary No: 1082/2024
	3X80 MVAR 765 kV line reactor along with associated bays at Gwalior Substation for Satna-Gwalior Line-I	1.1.2014		
	3X80 MVAR 765 kV Line reactor along with associated bays at Gwalior Substation (for 765 kV S/C Gwalior-Jaipur Ckt-I)	1.3.2014		
	65 kV S/C Gwalior-Jaipur (RVPN) Ckt#1 Transmission Line and Bay Extension at 765/400 kV Phagi (RVPN-Jaipur) Substation {765 kV Gwalior Bay along with Line Reactor charged as Bus Reactor under Interim Contingency on 1.3.2014 to be used as Line Reactor at Gwalior along with Bays}	14.8.2015		
	765 kV S/C Satna-Gwalior Ckt. 2 Transmission Line along with associated bays at both ends and 765 kV, 240 MVAR Switchable Line Reactor at Satna end	6.8.2014		
	765 kV, 240 MVAR Reactor at Gwalior end for 765 kV S/S Satna - Gwalior ckt.-II T/L (765 kV S/S, Satna Gwalior ckt II T/L	30.9.2014		
	765 kV 3x80 MVAR Line Reactor along with associated bays at Gwalior Substation (to be used as Bus Reactor under Interim contingency scheme till readiness of 765 kV S/C Gwalior-Jaipur - 2 and Circuit Transmission Line)	24.11.2014	Transmission System for Phase-I Generation projects in Orissa Part-C	Diary No: 1084/2024
	765 KV S/C Gwalior- Jaipur ckt.#2 TL along with 240 MVAR switchable LR & associated bays at Jaipur s/s (240 MVAR LR at Gwalior s	13.8.2015		
	765 kV S/C Bina-Gwalior (3rd Circuit Transmission Line)	7.5.2014		
	3x80 MVAR line reactor with associated bays at Gwalior Substation used as bus reactor till commissioning of 765 kV Bina Gwalior Ckt-3	1.2.2014		



	400 kV 125 MVAR Bus Reactor-I and Bus Reactor-II at 765 kV Gwalior Substation	1.10.2013		
	Conversion of existing line reactor at Gwalior end of Satna-Gwalior Ckt-1 Transmission Line (to be LILO at Orai) in to switchable line reactor	1.4.2017	Inter-Regional System Strengthening Scheme in WR & NR (Part-B)	Diary No: 1125/2024
	2 Nos 400 KV GIS line bays at 400 KV Gwalior S/s (for Gwalior S/s-Morena (POWERGRID) 400 KV D/C Quad line)	11.5.2018	POWERGRID works associated with System Strengthening for IPPs in Chhattisgarh and other generation projects in Western Region	Diary No: 1057/2024
	±200 MVAR STATCOM at 400 kV Gwalior Substation	26.12.2018	Installation of STATCOMs in Western Region	Diary No: 1264/2024

800kV HVDC, 765/400/220kV Agra Substation	400 kV Kanpur-Agra line	14.3.1987	Singrauli Transmission System in Northern Region	Diary No: 1343/2024
	400 kV Agra-Jaipur line	14.3.1987		
	220 kV Auraiya-Agra D/C Transmission line Ckt.-I & Ckt.-II	19.12.1990	Trans syst. Associated with Auraiya Gas Power Plant	Diary No: 1174/2024
	400 kV Agra-Ballabgarh S/C Transmission line	1.12.1991		
	Agra (POWERGRID)-Agra (UPPCL) 400 kV D/C Interconnection	1.7.2003	Agra (POWERGRID)-Agra (UPPCL) 400 kV D/C Interconnection in Northern Region	156/TT/2025
	400 kV D/C Agra-Bassi Transmission Line with associated bays	1.1.2007	Northern Region System Strengthening Scheme-II in Northern Region	Diary No: 842/2024
	400 kV Agra- Gwalior 765 kV S/C Transmission Line including respective bays at Agra and Gwalior Substation	1.4.2007	Kahalgaon Stage-II, Phase-I Transmission System in the Eastern, Northern Region and Inter-regional link between the Northern and Western Region	Diary No: 962/2024
	765 kV S/C Agra-Gwalior Transmission Line Circuit-II along with 400 kV bays at Agra and Gwalior Substations	1.4.2009	North-West Transmission Corridor Strengthening Scheme in both	213/TT/2025



			Western and Northern Regions	
	400 kV D/C Agra-Bhiwadi transmission line along with associated bays	1.9.2009	Northern Region System Strengthening Scheme – V	212/TT/2025
	One number 765 kV line bay for 765 kV Agra- Jhattikara line including 765 kV 240 MVAR switchable line reactor as bus reactor operation mode at 765/400 kV Jhattikara (New) Substation	1.10.2012	765KV System for Central Part of Northern Grid- Part-II	Diary No: 909/2024
	Associated line bays for 765 kV S/C Agra –Jhattikara Transmission Line at Agra Substation	1.5.2013		
	One number 765 kV line bay for 765 kV Agra-Meerut line along with 765 kV 240 MVAR switchable line reactor under bus reactor operation mode at 765/400/220 kV Meerut Substation	1.6.2013		
	Associated line bays for 765 kV S/C Agra – Meerut Transmission Line at Agra Substation	1.6.2013		
800 kV HVDC, 765/400/220 kV Agra Substation	765 kV S/C Fatehpur-Agra Transmission Line	1.6.2012	Supplementary Transmission System associated with DVC and Maithon Right Bank Project in Eastern and Northern Regions	Diary No: 920/2024
	Asset-9: 400 kV 125 MVAR Bus Reactor III along with associated bays at 765/400 kV Agra (Augmentation) Substation	1.6.2012	Common Scheme for 765 kV Pooling Station and Network for NR, Import by NR from ER and Common Scheme for network for WR and Import by WR from ER and from NER/SR/WR via ER” in Northern, Eastern & Western Region (DVC main)	DiaryNo: 04/2025
	Asset-10: 400 kV 125 MVAR Bus Reactor II along with associated bays at 765/400 kV Agra (Augmentation) Substation	1.6.2012		
	Combined Asset of: Asset-14: 1500 MVA ICT-1 at Agra Substation along with associated bays (Asset-14a), 125 MVAR 765/400 kV Bus Reactor-I at Sasaram alongwith associated Bays (Asset-14b); Associated Line bays of 765 kV S/C Fatehpur-Agra Transmission Line at Fatehpur and Agra Substation (Asset-14c)	1.6.2012		



	Asset-15: 1500 MVA ICT-2 at Agra Substation along with associated bays	1.9.2012		
	Asset-28: 240 MVAR Bus Reactor at Agra Substation	1.1.2013		
	Agra – Jaitikalan 765 kV S/C Transmission Line	1.5.2013	765 kV System for central part of Northern Grid Part-I in Northern Region	Diary No: 914/2024
	Agra – Meerut 765 kV S/C Transmission Line	1.6.2013		
	Upgradation of existing Gwalior-Agra Ckt 1 Transmission Line at 765 kV level along with associated bays at Agra Substation & Gwalior Substation	1.4.2013	Transmission System associated with Sasan Ultra Mega Power Project (UMPP)	207/TT/2025
	One no. 765 kV Line bay for 765 kV S/C Fatehpur-Agra Line –II along with 240 MVAR switchable line reactor under bus reactor operation mode at Agra	1.11.2013		
	240 MVAR Bus Reactor at Agra	1.12.2012		
	Combined asset consisting of Asset-A: 400 kV Agra-Sikar (D/C Quad) Line with associated Bays at Agra and Asset-B: 2 numbers 400 kV line bays for 400 kV D/C Agra-Sikar line including 2 numbers 50 MVAR Line Reactors under Bus Reactor operation mode at 400/220 kV Sikar S/S	1.1.2014	System Strengthening in Northern Region for Sasan and Mundra UMPP	Diary No: 922/2024
	1X500 MVA, 765/400 kV Transformer as spare ICT at Agra Substation	1.5.2017	Spare 765/400 kV Transformers for Northern Region	Diary No: 918/2024
800 kV HVDC, 765/400/220 kV Agra Substation	Augmentation of 400kV Agra Substation by 1X315 MVA, 400/220/33kV ICT along with associated Bays	10.12.2015	Transmission system associated with North East-Northern/Western Inter Connector-I	Diary No: 1180/2024
	2X80MVAR, 400kV Switchable Line Reactors for 400kV D/C Agra-Sikar T/L at Agra Substation	1.8.2017		
	± 800 kV HVDC Biswanath Chariali – Agra Pole-1 (1500 MW HVDC Terminals at Biswanath Chariali and Agra each along with the ± 800 kV Hexa Lapwing Transmission Line)	1.11.2015		
	±800kV Biswanath Chariali-Agra HVDC POLE-II (1500MW HVDC Terminal at Biswanath Chariali and Agra) along with Earth Electrode line and Earth Electrode Station for both BNC and Agra	2.9.2016		



	±800 kV 3000 MW HVDC POLE-III and LILO of Bishwanath Chariali – Agra HVDC Line for parallel operation of the HVDC Station at Alipurduar and Earth Electrode Station and Earth Electrode Line at Alipurduar and Agra end and ±800 kV 3000 MW HVDC POLE-IV at Alipurduar and Agra	21.9.2017	Transmission system for development of pooling station in Northern part of West Bengal and transfer of power from Bhutan to NR/WR	5/TT/2023
	Asset-4: LILO of Agra-Bharatpur 220 kV S/C Line at Agra (POWERGRID) Substation along with line bays	7.2.2019	NRSS-XXXIV	Diary No: 1095/2024
	Asset-5: Associated bays of “1X315 MVA 400/220 kV ICT” at Agra Substation (ICT shifted from Ballabgarh SS)	26.6.2017		
	Asset-8: 1X315 MVA 400/220 kV ICT at Agra Substation (Only ICT shifted from Ballabgarh SS covered under Rihand Transmission System)	26.6.2017		

10. This order is being issued considering the Petitioner’s submissions in the Petition vide affidavits dated 23.9.2024, 20.1.2025 and 3.3.2025. None of the Respondents have filed any reply.

11. We have considered the Petitioner’s submission and have gone through the record. The tariff for the 2019-24 period is being trued up and the tariff for the 2024-29 period is determined based on the information available on record which includes the information given in the data, tariff forms and documents available on record and called for, from the Petitioner.

12. 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

13. The details of the transmission charges allowed by the Commission vide order dated 27.10.2021 in Petition No. 380/TT/2020 in respect of the Combined Asset are as follows:



(₹ in lakh)					
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Depreciation	2569.33	2570.91	2570.91	483.44	483.44
Interest on Loan	327.70	216.23	103.78	36.97	15.82
Return on Equity	2705.73	2707.43	2707.43	2707.43	2707.43
Interest on Working Capital	105.85	98.14	90.73	63.18	63.49
O&M Expenses	495.43	512.78	530.86	549.42	568.71
Total	6204.04	6105.49	6003.70	3840.43	3838.89

14. The details of the trued-up transmission charges 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
Depreciation	2567.75	2567.75	2567.75	481.35	481.35
Interest on Loan	296.58	107.39	44.50	37.17	23.56
Return on Equity	2704.04	2704.04	2704.04	2704.04	2704.04
Interest on Working Capital	105.33	96.52	89.86	63.11	72.73
O&M Expenses	495.43	512.79	530.87	549.42	568.71
Total	6169.13	5988.49	5937.02	3835.09	3850.39

Additional Capital Expenditure

15. The Commission vide order dated 27.10.2021 in Petition No. 380/TT/2020 allowed an Additional Capital Expenditure (ACE) of ₹60.00 lakh during the 2019-24 tariff period. The Petitioner has further submitted that being aggrieved with the order dated 27.10.2021 in Petition No. 380/TT/2020, it filed an appeal in APTEL vide Appeal No. 341 of 2021 against non-consideration of RCE and disallowance of ₹599.84 lakh.

16. However, the Petitioner has not claimed the Additional Capital Expenditure (ACE) in respect of the Combined Asset for the 2019-24 tariff period in the instant Petition.

Capital Cost for the 2019-24 Tariff Period

17. The Commission, vide order dated 27.10.2021 in Petition No. 380/TT/2020, trued-up the tariff for the 2014-19 tariff period and, determined the tariff for the 2019-24 tariff period, and considered the capital cost of ₹48599.15 lakh in respect of the Combined Asset as on 31.3.2019.



18. The Petitioner has not claimed ACE in respect of the Combined Asset for the 2019-24 tariff period. Therefore, the aforementioned approved capital cost of ₹48599.15 lakh, has been considered as an opening capital cost as on 1.4.2019 for the purpose of truing-up the transmission tariff for the 2019-24 period in accordance with Regulation 19 of the 2019 Tariff Regulations in the instant Petition.

19. We have considered the Petitioner's submissions. The capital cost allowed for the 2019-24 tariff period in respect of 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
48599.15	0.00	48599.15

Debt-Equity Ratio

20. 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	34202.15	70.38	34202.15	70.38
Equity	14397.00	29.62	14397.00	29.62
Total	48599.15	100.00	48599.15	100.00

Depreciation

21. The depreciation has been worked out considering the ACE as on 1.4.2019, and thereafter up to 31.3.2024. The Combined Asset has already completed its life of 12 years as on 31.3.2022, therefore, the depreciation for FY 2019-22 has been calculated applying the Weighted Average Rate of Depreciation (WAROD) for FY 2022-24, by spreading the balance depreciable value over the remaining useful life.

22. The depreciation allowed for the Combined Asset is as follows:

(₹ in lakh)						
	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
A	Opening capital cost	48599.15	48599.15	48599.15	48599.15	48599.15
B	Addition during the year 2019-24 due to ACE	0.00	0.00	0.00	0.00	0.00



C	Closing capital cost (A+B)	48599.15	48599.15	48599.15	48599.15	48599.15
D	Average capital cost (A+C)/2	48599.15	48599.15	48599.15	48599.15	48599.15
E	Average capital cost (90% depreciable assets)	48599.15	48599.15	48599.15	48599.15	48599.15
F	Average capital cost (100% depreciable assets)	0.00	0.00	0.00	0.00	0.00
G	Depreciable value (excluding IT equipment and software) (E*90%)	43739.24	43739.24	43739.24	43739.24	43739.24
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)	43739.24	43739.24	43739.24	43739.24	43739.24
J	WAROD	5.2835	5.2835	5.2835	0.9904	0.9904
K	Elapsed useful life at the beginning of the year	9.00	10.00	11.00	12.00	13.00
L	Balance useful life at the beginning of the year	25.00	24.00	23.00	22.00	21.00
M	Remaining depreciable value (before providing depreciation for the year) (I - 'O' of preceding period)	18292.88	15725.13	13157.39	10589.65	10108.30
N	Depreciation during the year (D*J)	2567.74	2567.74	2567.74	481.35	481.35
O	Cumulative depreciation at the end of the year	28014.10	30581.84	33149.58	33630.93	34112.28

23. The details of depreciation allowed vide order dated 27.10.2021 in Petition No. 380/TT/2020, depreciation claimed in the instant Petition, and trued-up depreciation allowed for the Combined 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 27.10.2021 in Petition No. 380/TT/2020	2569.33	2570.91	2570.91	483.44	483.44
Claimed by the Petitioner in the instant Petition	2567.75	2567.75	2567.75	481.35	481.35
Allowed after truing-up in this order	2567.74	2567.74	2567.74	481.35	481.35

Interest on Loan (IoL)

24. 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)						
	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
A	Gross Normative Loan	34202.15	34202.15	34202.15	34202.15	34202.15
B	Cumulative Repayments up to Previous Year	25446.36	28014.10	30581.84	33149.58	33630.93
C	Net Loan-Opening (A-B)	8755.79	6188.05	3620.31	1052.57	571.22
D	Addition due to ACE	0.00	0.00	0.00	0.00	0.00
E	Repayment during the year	2567.74	2567.74	2567.74	481.35	481.35
F	Net Loan-Closing (C+D-E)	6188.05	3620.31	1052.57	571.22	89.87



	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
G	Average Loan (C+F)/2	7471.92	4904.18	2336.44	811.89	330.54
H	Weighted Average Rate of Interest on Loan (in %)	3.9693	2.1897	1.9046	4.5788	7.1284
I	Interest on Loan (G*H)	296.58	107.39	44.50	37.17	23.56

25. The details of the IoL allowed vide order dated 27.10.2021 in Petition No. 380/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 27.10.2021 in Petition No. 380/TT/2020		327.70	216.23	103.78	36.97	15.82
Claimed by the Petitioner in the instant Petition		296.58	107.39	44.50	37.17	23.56
Allowed after truing-up in this order		296.58	107.39	44.50	37.17	23.56

Return on Equity (RoE)

26. The Petitioner has submitted that its Income Tax assessment has been completed, and assessment orders have been issued by the Income Tax Department for FYs 2019-20 and 2020-21 and the income has been assessed under MAT [115JB of the Income Tax Act, 1961]. The Petitioner has further submitted that the Income Tax Returns (ITRs) have been filed for FYs 2021-22, 2022-23 and 2023-24 (submitted in Petition No. 401/TT/2024).

27. The Petitioner has further submitted that it is liable to pay income tax at MAT rates (17.472, i.e. 15% Income Tax and 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

28. We have considered the Petitioner's submissions and have also gone through the record. We observe that the entities covered under the MAT regime are paying 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 as per 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 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 the RoE for truing up 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 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 a year to year basis. Therefore, the following effective tax rate based on the notified MAT rates are considered for the purpose of grossing up the rate of RoE:

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	15.500	18.782
2020-21	17.472	17.472	15.500	18.782
2021-22	17.472	17.472	15.500	18.782
2022-23	17.472	17.472	15.500	18.782
2023-24	17.472	17.472	15.500	18.782

29. Accordingly, the trued-up RoE allowed in respect of the Combined Asset for the 2019-24 tariff period is as follows:

(₹ in lakh)						
	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
A	Opening Equity	14397.00	14397.00	14397.00	14397.00	14397.00
B	Addition due to ACE	0.00	0.00	0.00	0.00	0.00
C	Closing Equity (A+B)	14397.00	14397.00	14397.00	14397.00	14397.00
D	Average Equity (A+C)/2	14397.00	14397.00	14397.00	14397.00	14397.00
E	Return on Equity (Base Rate) (in %)	15.500	15.500	15.500	15.500	15.500
F	Tax Rate applicable (in %)	17.472	17.472	17.472	17.472	17.472



	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
G	Rate of Return on Equity (in %)	18.782	18.782	18.782	18.782	18.782
H	Return on Equity (D*G)	2704.04	2704.04	2704.04	2704.04	2704.04

30. The details of the RoE allowed vide order dated 27.10.2021 in Petition No. 380/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 27.10.2021 in Petition No. 380/TT/2020		2705.73	2707.43	2707.43	2707.43	2707.43
Claimed by the Petitioner in the instant Petition		2704.04	2704.04	2704.04	2704.04	2704.04
Allowed after truing-up in this order		2704.04	2704.04	2704.04	2704.04	2704.04

Operation & Maintenance Expenses (O&M Expenses)

31. The Commission, vide order dated 27.10.2021 in Petition No. 380/TT/2020, allowed the following O&M Expenses with respect to the Combined Asset for the 2019-24 period:

(₹ in lakh)				
2019-20	2020-21	2021-22	2022-23	2023-24
495.43	512.78	530.86	549.42	568.71

32. The Petitioner has claimed the following O&M Expenses for the 2019-24 tariff period in respect of the Combined Asset:

(₹ in lakh)				
2019-20	2020-21	2021-22	2022-23	2023-24
495.43	512.78	530.86	549.42	568.71

33. We have considered the submissions of the Petitioner. It is observed that the O&M Expenses claimed by the Petitioner in the instant true-up Petition as per Regulation 35(3) of 2019 Tariff Regulation. The O&M Expenses are worked out as follows:

		(₹ in lakh)				
Particulars		2019-20	2020-21	2021-22	2022-23	2023-24
Transmission Lines:						
• 400 kV D/C (Twin) Zerda – Kankroli Line – (Line length: 233.756 km)						
Norms as per Regulation (Rs. Per Km)		0.881	0.912	0.944	0.977	1.011
O&M charges		205.94	213.19	220.67	228.38	236.33
765 kV S/C (Quad) Gwalior – Agra Line – (Line length: 127.934 km)						
Norms as per Regulation (Rs. Per Km)		0.755	0.781	0.809	0.837	0.867
O&M charges		96.59	99.92	103.5	107.08	110.92



Substation Bays: <ul style="list-style-type: none"> • 2 Nos. of 400 kV Bays at Zerda Substation • 2 Nos. of 400 kV Bays at Kankroli Substation • 1 No. of 400 kV Bay at Gwalior Substation • 1 No. of 400 kV Bay at Agra Substation 					
Norms as per Regulation (Rs. Per Bay)	32.15	33.28	34.45	35.66	36.91
O&M charges	192.9	199.68	206.7	213.96	221.46
Total O&M Expenses allowed	495.43	512.79	530.87	549.42	568.71

34. Accordingly, O&M Expenses approved vide dated 27.10.2021 in Petition No. 380/TT/2020, O&M Expenses claimed in the instant Petition and trued up O&M Expenses allowed in respect of the Combined Asset are as follows:

(₹ in lakh)					
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Approved vide order dated 27.10.2021 in Petition No. 380/TT/2020	495.43	512.78	530.86	549.42	568.71
As claimed by the Petitioner in the instant Petition	495.43	512.79	530.87	549.42	568.71
Allowed in the instant true-up Petition	495.43	512.79	530.87	549.42	568.71

Interest on Working Capital (IWC)

35. 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 FYs 2021-22 and 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.

36. 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)	41.29	42.73	44.24	45.79	47.39



Sl. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
B	Working Capital for Maintenance Spares (15% of O&M Expenses)	74.31	76.92	79.63	82.41	85.31
C	Working Capital for Receivables (Equivalent to 45 days of annual fixed cost /annual transmission charges)	758.50	738.31	731.96	472.82	473.41
D	Total Working Capital (A+B+C)	874.10	857.96	855.83	601.02	606.11
E	Rate of Interest for working capital (in %)	12.05	11.25	10.50	10.50	12.00
F	Interest on Working Capital (D*E)	105.33	96.52	89.86	63.11	72.73

37. The details of the IWC allowed vide order dated 27.10.2021 in Petition No. 380/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 27.10.2021 in Petition No. 380/TT/2020	105.85	98.14	90.73	63.18	63.49
Claimed by the Petitioner in the instant Petition	105.33	96.52	89.86	63.11	72.73
Allowed after truing-up in this order	105.33	96.52	89.86	63.11	72.73

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

38. 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)					
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Depreciation	2567.74	2567.74	2567.74	481.35	481.35
Interest on Loan	296.58	107.39	44.50	37.17	23.56
Return on Equity	2704.04	2704.04	2704.04	2704.04	2704.04
O&M Expenses	105.33	96.52	89.86	63.11	72.73
Interest on Working Capital	495.43	512.79	530.87	549.42	568.71
Total	6169.13	5988.48	5937.02	3835.09	3850.40

39. The details of annual transmission charges allowed vide order dated 27.10.2021 in Petition No. 380/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)					
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Allowed vide order dated 27.10.2021 in Petition No. 380/TT/2020	6204.04	6105.49	6003.70	3840.43	3838.89
Claimed by the Petitioner in the instant Petition	6169.13	5988.49	5937.02	3835.09	3850.39
Allowed after truing-up in this order	6169.13	5988.48	5937.02	3835.09	3850.40

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

40. The Petitioner has claimed the following transmission charges for the Combined Asset for the 2024-29 tariff period:

(₹ in lakh)					
Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
Depreciation	481.35	481.35	481.35	481.35	481.35
Interest on Loan	3.38	0.00	0.00	0.00	0.00
Return on Equity	2704.04	2704.04	2704.04	2704.04	2704.04
Interest on Working Capital	70.10	71.24	72.48	73.63	75.18
O&M Expenses	525.26	552.74	581.55	612.06	644.41
Total	3784.13	3809.37	3839.42	3871.08	3904.98

Capital Cost

41. 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
- (o) Capital cost incurred or projected to be incurred by a thermal generating station, on account of implementation of the norms under the Perform, Achieve and Trade (PAT) scheme of the Government of India shall be considered by the Commission subject to sharing of benefits accrued under the PAT scheme with the beneficiaries.
- (p) Expenditure required to enable flexible operation of the generating station at lower loads.

(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) Capital expenditure on account of ash disposal and utilization, including handling and transportation facility;
- (e) Capital expenditure incurred towards railway infrastructure and its augmentation for transportation of coal up to the receiving end of generating station but does not include the transportation cost and any other appurtenant cost paid to the railway;
- (f) Capital cost incurred or projected to be incurred by a thermal generating station, on account of implementation of the norms under the Perform, Achieve and Trade (PAT) scheme of the Government of India shall be considered by the Commission subject to sharing of benefits accrued under the PAT scheme with the beneficiaries;
- (g) Expenditure required to enable flexible operation of the generating station at lower loads;
- (h) Capital expenditure on account of biomass handling equipment and facilities, for cofiring; and
- (i) Expenditure on account of change in law and force majeure events;

(4) The capital cost in case of existing or new hydro generating stations shall also include:

- (a) cost of approved rehabilitation and resettlement (R&R) plan of the project in conformity with National R&R Policy and R&R package as approved; and
- (b) cost of the developer's 10% contribution towards the Rajiv Gandhi Grameen Vidyutikaran Yojana (RGGVY) and Deendayal Upadhyaya Gram Jyoti Yojana (DDUGJY) project in the affected area.

(c) For uninterrupted and timely development of Hydro projects, expenditure incurred towards developing local infrastructure in the vicinity of the power plant not exceeding Rs. 10 lakh/MW shall be considered as part of the Capital cost, and in case the same work is covered under budgetary support provided by the Government of India, the funding of such works shall be adjusted on receipt of such funds.

Provided that such funds shall be allowed only if the funds are spent through Indian Governmental Instrumentality;

(5) For Projects acquired through NCLT proceedings under the Insolvency and Bankruptcy Code, 2016, the following shall be considered while approving Capital Costs for the determination of tariff:

- (a) For projects already under operation, historical GFA of the project acquired or the acquisition cost paid by the generating company, whichever is lower;



(b) For considering the historical GFA for the purpose of Sub-Clause (a) above, the same shall be the capital cost approved by the appropriate commission till the date of acquisition;

Provided that in the absence of any prior approved capital cost of an Appropriate Commission, the Commission shall consider the same on the basis of audited accounts subject to prudence check;

Provided further, that in case additional capital expenditure is required post acquisition of an already operational project, the same shall be considered under the provisions of Chapter 7 of these Regulations;

(c) In case any under construction project is acquired that has yet to achieve commercial operation, the acquisition cost or the actual audited cost incurred till the date of acquisition, whichever is lower, shall be considered and;

(d) any additional capital expenditure incurred post acquisition of such project up to the date of commercial operation of the project in line with the investment approval of the Board of Directors of the generating company or the transmission licensees shall also be considered on a case to case basis subject to prudence check.

Provided that post commercial operation, additional capital expenditure shall be allowed under the provisions of Chapter 7 of these Regulations.

- (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.

(d) In the case of hydro generating stations, any expenditure incurred or committed to be incurred by a project developer for getting the project site allotted by the State Government by following a transparent process;

(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."

42. The capital cost approved as on 1.4.2024 is ₹48599.15 lakh. Therefore, the capital cost of ₹48599.15 lakh 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 tariff period in accordance with Regulation 19 of the 2024 Tariff Regulations.



Additional Capital Expenditure

43. The Petitioner has not claimed ACE in respect of the Combined Asset for the 2024-29 tariff period. Therefore, the details of the capital cost allowed as on 31.3.2024, and as on 31.3.2029 are as follows:

(₹ in lakh)			
Apportioned Approved Cost as per FR/RCE	Expenditure as on 31.3.2024	Expenditure during the 2019-24 tariff period	Actual Capital Cost as on 31.3.2029
48310.00/NA	48599.15	0.00	48599.15

Debt Equity Ratio

44. 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:

- where equity actually deployed is less than 30% of the capital cost, actual equity shall be considered for determination of tariff;
- the equity invested in foreign currency shall be designated in Indian rupees on the date of each investment;
- 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.”

45. 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	34202.15	70.38	34202.15	70.38
Equity	14397.00	29.62	14397.00	29.62
Total	48599.15	100.00	48599.15	100.00

Depreciation

46. 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 de-capitalized asset during its useful service.

(10) Where the emission control system is implemented within the original scope of the generating station and the date of commercial operation of the generating station or unit thereof and the date of operation of the emission control system are the same, depreciation



of the generating station or unit thereof including the emission control system shall be computed in accordance with Clauses (1) to (9) of this Regulation.

(11) Depreciation of the emission control system of an existing generating station that is yet to complete its useful life or a new generating station or unit thereof where the date of operation of the emission control system is subsequent to the date of commercial operation of the generating station or unit thereof, shall be computed annually from the date of operation of such emission control system based on the straight line method at rates specified in Appendix- I to these regulations;

Provided that the remaining depreciable value as on 31st March of the year closing after a period of 12 years from the date of operation of such emission control system shall be spread over the balance period of thirteen years or balance operational life of generating station, whichever is lower;

Provided also that in case the date of operation of the emission control system is after the 20th year of commercial operation of the generating station or unit thereof, but before the completion of the useful life of the generating station, the depreciation on emission control system (ECS) shall be computed annually from the date of operation of such ECS based on the straight line method, with a salvage value of 10% and the depreciable value shall be recovered till the operational life of the generating station.

(12) In case the date of operation of the emission control system is subsequent to the date of completion of the useful life of generating station commercial operation of the generating station or unit thereof, depreciation of ECS shall be computed annually from the date of operation of such emission control system based on the straight line method, with a salvage value of 10% and recovered over ten years or a period mutually agreed by the generating company and the beneficiaries, whichever is higher.”

47. The depreciation in respect of the Combined Asset, has been worked out considering the admitted capital expenditure as on 1.4.2024, and thereafter up to 31.3.2029. Since the Combined Asset has already completed life more than 12 years as on 1.4.2024, the depreciation has been calculated by spreading the balance depreciable value over the remaining useful life.

48. The depreciation allowed for the Combined Asset under Regulation 33 of the 2024 Tariff Regulations for the 2024-29 tariff period, subject to truing up, is as under:

(₹ in lakh)						
	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
A	Opening capital cost	48599.15	48599.15	48599.15	48599.15	48599.15
B	Addition during the year 2024-29 due to projected ACE	0.00	0.00	0.00	0.00	0.00
C	Closing capital cost (A+B)	48599.15	48599.15	48599.15	48599.15	48599.15
D	Average capital cost (A+C)/2	48599.15	48599.15	48599.15	48599.15	48599.15
E	Average capital cost (90% depreciable assets)	48599.15	48599.15	48599.15	48599.15	48599.15
F	Average capital cost (100% depreciable assets)	0.00	0.00	0.00	0.00	0.00
G	Depreciable value (excluding IT equipment	43739.24	43739.24	43739.24	43739.24	43739.24



	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
	and software) (E*90%)					
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)	43739.24	43739.24	43739.24	43739.24	43739.24
J	WAROD	0.9904	0.9904	0.9904	0.9904	0.9904
K	Lapsed useful life at the beginning of the year	14.00	15.00	16.00	17.00	18.00
L	Balance useful life at the beginning of the year	20.00	19.00	18.00	17.00	16.00
M	Remaining depreciable value (before providing depreciation for the year) (I - 'O' of preceding period)	9626.95	9145.61	8664.26	8182.91	7701.56
N	Depreciation during the year (D*J)	481.35	481.35	481.35	481.35	481.35
O	Cumulative depreciation at the end of the year	34593.63	35074.98	35556.32	36037.67	36519.02

Interest on Loan (IoL)

49. 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.”

50. The WAROI considered by the Petitioner has been retained for the purpose of tariff of the Combined Asset, subject to truing up. The depreciation allowed during the tariff period 2024-29 has been considered as repayment during the respective year of the 2024-29 tariff period. The IoL allowed for the Combined Asset for the 2024-29 tariff period, subject to truing up, is as follows:

(₹ in lakh)						
Sl. No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
A	Gross Normative Loan	34202.15	34202.15	34202.15	34202.15	34202.15
B	Cumulative Repayments up to Previous Year	34112.28	34202.15	34202.15	34202.15	34202.15
C	Net Loan-Opening (A-B)	89.87	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	89.87	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	44.93	0.00	0.00	0.00	0.00
H	Weighted Average Rate of Interest on Loan (in %)	7.5304	7.4834	7.3497	7.3585	7.4041
I	Interest on Loan (G*H)	3.38	0.00	0.00	0.00	0.00

Return on Equity (RoE)

51. 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:

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

(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."

52. The Petitioner has claimed return on equity (RoE) considering a base rate of 15.500% and the effective tax rate of 17.472%, for the tariff period 2024-29, the same has been considered, subject to truing up.

53. The RoE allowed in respect of 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	14397.00	14397.00	14397.00	14397.00	14397.00
B	Addition due to ACE	0.00	0.00	0.00	0.00	0.00
C	Closing Equity (A+B)	14397.00	14397.00	14397.00	14397.00	14397.00
D	Average Equity (A+C)/2	14397.00	14397.00	14397.00	14397.00	14397.00
E	Return on Equity (Base Rate) (in %)	15.500	15.500	15.500	15.500	15.500
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	Return on Equity (Pre-tax) (D*G)	2704.04	2704.04	2704.04	2704.04	2704.04

Operation and Maintenance Expenses (O&M Expenses)

54. The O&M Expenses claimed by the Petitioner in respect of the Combined Asset for the 2024-29 tariff period are as follows:

(₹ in lakh)				
2024-25	2025-26	2026-27	2027-28	2028-29
525.26	552.74	581.55	612.06	644.41

55. 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	2024-25	2025-26	2026-27	2027-28	2028-29
Norms for Substation Bays (Rs Lakh per 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 Lakh per MVA or MVAR)					
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 ± 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.

(c) Communication system: The operation and maintenance expenses for the ULDC or such similar scheme shall be worked out at 2.0% of the original project cost related to such communication system. The transmission licensee shall submit the actual operation and maintenance expenses for truing up. The expenses in case of U-NMS shall be allowed on actual basis after due prudence check.



(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.

(e) On the occurrence of any change in law event affecting O&M expenses, the impact shall be allowed to the transmission licensee at the time of truing up of tariff.

Provided that such impact shall be allowed only in case the overall impact of such change in law event in a year is more than 5% of normative O&M expenses of the project for the year.

(f) In case of a transmission licensee owned by the Central or State Government, the impact on account of implementation of wage or pay revision shall be allowed at the time of truing up of tariff.”

56. We have considered the submissions of the Petitioner. 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 in respect of the Combined Asset for the 2024-29 tariff period 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
Transmission Lines:					
• 400 kV D/C (Twin) Zerda – Kankroli Line – (Line length: 233.756 km)					
Norms as per Regulation (Rs. Per Km)	0.861	0.906	0.953	1.003	1.056
O&M charges	201.26	211.78	222.77	234.46	246.85
765 kV S/C (Quad) Gwalior – Agra Line – (Line length:127.934 km)					
Norms as per Regulation (Rs. Per Km)	0.738	0.776	0.817	0.86	0.905
O&M charges	96.59	99.92	103.5	107.08	110.92
Substation bays:					
• 2 Nos. of 400 kV Bays at Zerda Substation					
• 2 Nos. of 400 kV Bays at Kankroli Substation					
• 1 No. of 400 kV Bay at Gwalior Substation					
• 1 No. of 400 kV Bay at Agra Substation					
Norms as per Regulation (Rs. Per Bay)	29.53	31.08	32.71	34.43	36.23
O&M charges	192.9	199.68	206.7	213.96	221.46
Substation Reactors:					
• 2 Nos. of 50 MVAR, 400 kV Reactor at Kankroli Substation					
• 2 Nos. of 50 MVAR, 400 kV Reactor at Zerda Substation					
	4	4	4	4	4



Norms as per Regulation (Rs. Per MVAR)	0.262	0.276	0.290	0.305	0.322
O&M charges	52.4	55.2	58.00	61.00	64.4
Total O&M Expenses allowed	525.26	552.74	581.55	612.06	644.41

Interest on Working Capital (IWC)

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

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

(a) For Coal-based/lignite-fired thermal generating stations:

(i) Cost of coal or lignite, if applicable, for 10 days for pit-head generating stations and 20 days for non-pit-head generating stations for generation corresponding to the normative annual plant availability factor or the maximum coal/lignite stock storage capacity, whichever is lower;

(ii) Limestone towards stock for 15 days corresponding to the normative annual plant availability

(iii) Advance payment for 30 days towards the cost of coal or lignite and limestone for generation corresponding to the normative annual plant availability factor;

(iv) Cost of secondary fuel oil for two months for generation corresponding to the normative annual plant availability factor, and in case of use of more than one secondary fuel oil, cost of fuel oil stock for the main secondary fuel oil;

(v) Maintenance spares @ 20% of operation and maintenance expenses, including water charges and security expenses;

(vi) Receivables equivalent to 45 days of capacity charge and energy charge for the sale of electricity calculated on the normative annual plant availability factor; and

(vii) Operation and maintenance expenses, including water charges and security expenses, for one month.

(b) For emission control system of coal or lignite based thermal generating stations:

(i) Cost of limestone or reagent towards stock for 20 days corresponding to the normative annual plant availability factor;

(ii) Advance payment for 30 days towards the cost of reagent for generation corresponding to the normative annual plant availability factor;

(iii) Receivables equivalent to 45 days of supplementary capacity charge and supplementary energy charge for the sale of electricity calculated on the normative annual plant availability factor;

(iv) Operation and maintenance expenses in respect of the emission control system for one month;

(v) Maintenance spares @20% of operation and maintenance expenses in respect of emission control system.

(c) For Open-cycle Gas Turbine/Combined Cycle thermal generating stations:

(i) Fuel cost for 15 days corresponding to the normative annual plant availability factor, duly taking into account the mode of operation of the generating station on gas fuel and liquid fuel;

(ii) Liquid fuel stock for 15 days corresponding to the normative annual plant availability factor, and in case of use of more than one liquid fuel, cost of main liquid fuel duly taking into account mode of operation of the generating stations of gas fuel and liquid fuel;

Provided that the above shall only be allowed to generating stations that have facilities to store liquid fuel.

(iii) Maintenance spares @ 30% of operation and maintenance expenses, including water charges and security expenses;



(iv) Receivables equivalent to 45 days of capacity charge and energy charge for the sale of electricity calculated on the normative plant availability factor, duly taking into account the mode of operation of the generating station on gas fuel and liquid fuel;
(v) Operation and maintenance expenses, including water charges and security expenses, for one month.

(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.

(2) The cost of fuel in cases covered under sub-clauses (a) and (c) of clause (1) of this Regulation shall be based on the landed fuel cost (taking into account normative transit and handling losses in terms of Regulation 59 of these regulations) by the generating station and gross calorific value of the fuel as per actual weighted average for the preceding financial year in case of each financial year for which tariff is to be determined:

Provided that in the case of a new generating station, the cost of fuel for the first financial year shall be considered based on landed fuel cost (taking into account normative transit and handling losses in terms of Regulation 59 of these regulations) and gross calorific value of the fuel as per actual weighted average for three months, as used for infirm power, preceding date of commercial operation for which tariff is to be determined.

(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.”

58. The Petitioner has considered the rate of IWC as 11.90% (i.e., SBI 1-year MCLR applicable as on 1.4.2024 of 8.65% plus 325 basis points) for the tariff period 2024-29, the same has been considered, subject to truing up.

59. The components of the working capital and interest allowed thereon under Regulation 34 of the 2024 Tariff Regulations for the 2024-29 tariff period, subject to truing up, 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)	43.77	46.06	48.46	51.01	53.70
B	Working Capital for Maintenance Spares (15% of O&M Expenses)	78.79	82.91	87.23	91.81	96.66
C	Working Capital for Receivables (Equivalent to 45 days of annual fixed cost /annual transmission charges)	466.54	469.65	473.35	475.95	481.44
D	Total Working Capital (A+B+C)	589.10	598.62	609.05	618.77	631.80
E	Rate of Interest for working capital (in %)	11.90	11.90	11.90	11.90	11.90
F	Interest on Working Capital (D*E)	70.10	71.24	72.48	73.63	75.18

Annual Fixed Charges for the 2024-29 tariff period

60. The transmission charges allowed in respect of the Combined Asset for the 2024-29 tariff period, subject to truing up, are as follows:

(₹ in lakh)

Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
Depreciation	481.35	481.35	481.35	481.35	481.35
Interest on Loan	3.38	0.00	0.00	0.00	0.00
Return on Equity	2704.04	2704.04	2704.04	2704.04	2704.04
O&M Expenses	70.10	71.24	72.48	73.63	75.18
Interest on Working Capital	525.26	552.74	581.55	612.06	644.41
Total	3784.14	3809.37	3839.42	3871.09	3904.99

Filing Fee and Publication Expenses

61. 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.

62. 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)

63. 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 additional O&M Expenses through a separate Petition at the end of the tariff period.

64. 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.”

65. 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 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

66. 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

67. 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.

68. 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

69. 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.

70. 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 Combined Asset are not claimed in the instant Petition.

71. 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 Interest on Working Capital (IWC) on the same,



considering the actual insurance expenses incurred by it for FY 2023-24 after escalating the same at 5.25% per annum to arrive at the estimated insurance expense for FYs 2024-25, 2025-26, 2026-27, 2027-28, and 2028-29.

72. The Petitioner has not claimed capital spares for the transmission assets in the instant Petition for the 2024-29 tariff period. According to the Petitioner, 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.

73. 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."

74. 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 an estimated basis in terms of the 2024 Tariff Regulations for the 2024-29 tariff period.



Sharing of Transmission Charges

75. The billing, collection, and disbursement of the transmission charges in respect of 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.

76. To summarize:

- a) The trued-up Annual Fixed Charges (AFC) 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 Allowed	6169.13	5988.48	5937.02	3835.09	3850.40

- b) The AFC approved 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 Allowed	3784.14	3809.37	3839.42	3871.09	3904.99

77. This order disposes of Petition No. 213/TT/2025 in terms of the above discussions and findings.

sd/-
(Harish Dudani)
Member

sd/-
(Ramesh Babu V.)
Member

