CENTRAL ELECTRICITY REGULATORY COMMISSION **NEW DELHI**

Petition No. 27/TT/2021

Coram:

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

Date of Order: 31.12.2021

In the matter of:

Approval under Regulation 86 of the Central Electricity Regulatory Commission (Conduct of Business) Regulations, 1999 and truing-up of transmission tariff of 2014-19 tariff period under the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2014 and determination of transmission tariff of 2019-24 tariff period under the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 in respect of Raipur Pooling Station-Wardha 765 kV D/C second line along with bay extension and equipment at 765 kV Raipur Pooling station & Wardha Sub-station under "System Strengthening in Raipur-Wardha Corridor for IPP Projects in Chhattisgarh (IPP-F)" in Western Region.

And in the matter of:

Power Grid Corporation of India Limited, "Saudamini", Plot No. 2, Sector 29, Gurgaon-122001, Haryana.

.... Petitioner

Vs.

1. Madhya Pradesh Power Management Company Limited, Shakti Bhawan, Rampur, Jabalpur – 482008.



- 2. Madhya Pradesh Power Transmission Company Limited, Shakti Bhawan, Rampur, Jabalpur – 482008.
- Madhya Pradesh Audyogik Kendra Vikas Nigam (Indore) Limited, 3/54, Press Complex, Agra-Bombay Road, Indore – 452008.
- Maharashtra State Electricity Distribution Company Limited, Hongkong Bank Building, 3rd Floor, M.G. Road, Fort, Mumbai – 400001.
- Maharashtra State Electricity Transmission Company Limited, Prakashganga, 6th Floor, Plot No. C-19, E-Block, Bandra Kurla Complex, Bandra (East), Mumbai – 400051.
- Gujarat Urja Vikas Nigam Limited, Sardar Patel Vidyut Bhawan, Race Course Road, Vadodara – 390007.
- 7. Electricity Department, Government of Goa, Vidyut Bhawan, Panaji, Near Mandvi Hotel, Goa – 403001.
- 8. Electricity Department, Administration of Daman & Diu, Daman – 396210.
- 9. DNH Power Distribution Corporation Limited, Vidyut Bhawan, 66 kV Road, Near Secretariat Amli, Silvassa – 396230.
- Chhattisgarh State Power Transmission Company Limited, Office of the Executive Director (C&P), State Load Despacth Building, Dangania, Raipur – 492013.
- 11. Chhattisgarh State Power Distribution Company Limited,
 P.O. Sunder Nagar, Dangania, Raipur,
 Chhattisgarh 492013.Respondent(s)

For Petitioner : Shri S.S. Raju, PGCIL

Shri D.K. Biswal, PGCIL

Shri Ved Prakash Rastogi, PGCIL

Shri A.K. Verma, PGCIL



For Respondents:

Shri Manoj Dubey, Advocate, MPPMCL

Shri Anindya Khare, MPPMCL

ORDER

The instant petition has been filed by Power Grid Corporation of India Limited, a deemed transmission licensee, for truing up of transmission tariff for the period from COD to 31.3.2019 under the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2014 (hereinafter referred to as "the 2014 Tariff Regulations") and determination of transmission tariff for the period from 1.4.2019 to 31.3.2024 under the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 (hereinafter referred to as "the 2019 Tariff Regulations") in respect of "Raipur Pooling Station-Wardha 765 kV 2nd Double Circuit line alongwith bay extension and equipment at 765 kV Raipur Pooling Station and Wardha Sub-station" (hereinafter referred to as "the transmission asset") under "System Strengthening in Raipur-Wardha Corridor for IPP Projects in Chhattisgarh (IPP-F)" (hereinafter referred to as "the transmission project") in Western Region.

- 2. The Petitioner has made the following prayers in the instant petition:
 - "1) Allow the add cap for 2014-19 and 2019-24 tariff block as claimed as per Para 5 and 7 above.
 - 2) Approve the trued-up Transmission Tariff for 2014-19 block and transmission tariff for 2019-24 block for the assets covered under this petition, as per para 6 and 7 above.
 - 3) 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 2014 and Tariff regulations 2019 as per para 6 and 7 above for respective block.
 - 4) Approve the reimbursement of expenditure by the beneficiaries towards petition filing fee, and expenditure on publishing of notices in newspapers in terms of

Regulation 70 (1) Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019, and other expenditure (if any) in relation to the filing of petition.

- 5) Allow the petitioner to bill and recover Licensee fee and RLDC fees and charges, separately from the beneficiaries in terms of Regulation 70 (3) and (4) Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019.
- 6) 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 2019-24 period, if any, from the beneficiaries.
- 7) 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 7.6 above.
- 8) Allow the petitioner to claim the capital spares at the end of tariff block as per actual.
- 9) Allow the Petitioner to bill and recover GST on Transmission Charges separately from the beneficiaries, if GST on transmission is levied at any rate in future. Further, any taxes including GST and duties including cess etc. imposed by any statutory/Govt./municipal authorities shall be allowed to be recovered from the beneficiaries.

and pass such other relief as 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) and expenditure sanction for the transmission project was accorded by the Board of Directors of the Petitioner in 266th meeting held on 23.1.2012 vide Memorandum No. C/CP/Chhattisgarh-IPP dated 24.1.2012 at an estimated cost of ₹142285 lakh, including an IDC of ₹8756 lakh based on 3rd Quarter 2011, price level.
 - (b) The scope of work covered under the transmission project is as follows:

Transmission Line

(i) Raipur Pooling Station – Wardha 765 kV 2nd D/C Line **Sub-station**

(ii) Bay extensions at 765 kV Raipur Pooling Station and Wardha Sub station



Reactive Compensation

Line Reactor	From Bus (Raipur PS end)	To Bus (Wardha end)		
Raipur Pooling Station-Wardha 765 kV 2 nd D/C Line	2x240 MVAR (Switchable)	2x330 MVAR		

- (c) The entire scope of work under the transmission project has been completed and is covered under the instant petition.
- (d) The transmission asset was scheduled to be commissioned within 36 months from the date of IA (24.1.2012). Accordingly, the transmission asset was scheduled to be commissioned by 24.1.2015. The Petitioner claimed the date of commercial operation (COD) as 31.3.2017 in Petition No. 30/TT/2019 in respect of the transmission asset while the Commission had approved COD of the transmission asset as 31.3.2017 vide order dated 18.9.2017 in Petition No. 218/TT/2016. Hence, the transmission asset was commissioned with delay of 26 months and 7 days (798 days).
- (e) The details of scheduled commercial operation date (SCOD), COD and time over-run are as follows:

Asset	SCOD	COD	Time over-run
Raipur Pooling Station- Wardha 765 kV D/C second line with bay extension and equipment at 765 kV Raipur Pooling station and Wardha Sub-station.	24.1.2015	31.3.2017	798 days and the same has been condoned by the Commission vide order dated 18.9.2017 in Petition No. 218/TT/2016.

- (f) The transmission tariff in respect of the transmission asset was approved by the Commission from the date of its commercial operation to 31.3.2019 vide order dated 28.1.2020 in Petition No. 30/TT/2019.
- (g) The Annual Fixed Charges (AFC) approved by the Commission vide order dated 28.1.2020 in Petition No. 30/TT/2019 and trued up tariff claimed by the Petitioner in respect of the transmission asset for 2014-19 tariff period are as follows:

Particulars	2016-17 (Pro-rata for 1 day)	2017-18	2018-19
AFC approved vide order dated 28.1.2020 in Petition No. 30/TT/2019.	84.94	31632.09	32067.57
AFC claimed by the Petitioner based on truing up in the instant petition	85.14	31495.65	31781.95

- 4. The Respondents are distribution licensees, power departments and transmission licensees, who are procuring transmission services from the Petitioner, mainly beneficiaries of the Western Region.
- 5. The Petitioner has served the petition on the Respondents and notice of this application has also been published in the newspapers in accordance with Section 64 of the Electricity Act, 2003. No comments or suggestions have been received from the general public in response to the aforesaid notices published in the newspapers by the Petitioner. Madhya Pradesh Power Management Company Limited (MPPMCL), has filed its reply vide affidavit dated 6.3.2021 and has raised issues of grossing up of RoE, ACE and effects of CGST. The Petitioner has filed its rejoinder to MPPMCL's reply vide affidavit dated 16.8.2021. The issues raised by MPPMCL and the clarifications given by the Petitioner are considered in the relevant portions of this order.
- 6. The hearing in this matter was held on 2.11.2021 through video conference and order was reserved.
- 7. Having heard the representative of the parties and perused the material on record, we proceed to dispose of the petition.
- 8. This order is issued considering the submissions made by the Petitioner in the

petition vide affidavit dated 22.6.2020 and affidavit dated 30.6.2021, MPPMCL's reply affidavit dated 6.3.2021 and the Petitioner's rejoinder affidavit dated 16.8.2021.

9. It is noticed that MPPMCL has been repeatedly raising the identical issue of RoE in almost all the petitions as has been raised by it in the present petition. The contentions of MPPMCL regarding RoE have been rejected by the Commission in other petitions including in Petition No. 348/TT/2019 vide order dated 25.4.2021. As MPPMCL has not challenged the findings of the Commission, the same have attained finality. In view of this, the submissions of MPPMCL regarding grossing up of RoE are rejected. Further, MPPMCL's submissions, Petitioner's clarifications thereto and the Commission's findings on the issue of RoE have not been repeated here for the sake of brevity.

TRUING UP OF ANNUAL FIXED CHARGES FOR THE 2014-19 TARIFF PERIOD

10. The details of the trued-up transmission charges claimed by the Petitioner with respect to the transmission asset is as follows:

(₹ in lakh)

Particulars	2016-17 (Pro-rata for 1 day)	2017-18	2018-19
Depreciation	24.74	9339.48	9698.15
Interest on Loan	28.19	10016.97	9474.21
Return on Equity	27.70	10456.59	10887.28
Interest on Working Capital	1.89	701.22	708.30
O&M Expenses	2.62	981.39	1014.01
Total	85.14	31495.65	31781.95

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

(₹ in lakh)

Particulars	2016-17 (Pro-rata for 1 day)	2017-18	2018-19
O&M Expenses	79.14	81.78	84.50
Maintenance Spares	142.46	147.21	151.10
Receivables	5178.44	5249.28	5296.99
Total	5400.04	5478.27	5533.59
Rate of Interest (in %)	12.80	12.80	12.80
Interest on Working Capital	1.89	701.22	708.30

Capital Cost

12. The Commission vide order dated 28.1.2020 in Petition No. 30/TT/2019 has approved the capital cost as on COD and Additional Capital Expenditure (ACE) up to 31.3.2019 in respect of the transmission asset and the same is as follows:

(₹ in lakh)

Approved	Approved	Capital Cost		ACE		Total Capital
Cost Cost (FR) (RCE)		allowed as on COD	2016-17	2017-18	2018-19	Cost as on 31.3 2019
142285.00	187513.00	170998.61	24.54	11705.31	3043.94	185772.40

13. The Petitioner has submitted that capital cost as on COD and estimated ACE incurred or projected to be incurred in respect of the transmission asset as per Auditor's Certificate dated 3.8.2019 is as follows:

(₹ in lakh)

Apportioned	Capital Cost		ACE		Total Capital	
Approved Cost (RCE)	as on COD	2016-17	2017-18	2018-19	Cost as on 31.3.2019	
187513.00	175279.80	24.54	7424.99	1895.51	184624.84	

Cost Over-run

- 14. The Petitioner has claimed capital cost of ₹175279.80 lakh in respect of the transmission asset as on COD.
- 15. The total completion cost including ACE is ₹184624.84 lakh and the approved revised cost is ₹187513.00 lakh. Hence, the completion cost in respect of the transmission asset is within the approved RCE cost and, therefore, there is no



cost over-run with regard to the transmission asset.

Time Over-run

16. As per IA, SCOD of the transmission asset was within 36 months from the date of IA (24.1.2012). Accordingly, SCOD was 24.1.2015 against which transmission asset was put under commercial operation on 31.3.2017. Therefore, there is time over-run of 798 days in commercial operation of the transmission asset. The Commission vide order dated 18.9.2017 in Petition No. 218/TT/2016 has already dealt with the issue of time over-run and condoned the entire time over-run of 798 days.

Interest During Construction ("IDC") and Incidental Expenditure During Construction ("IEDC")

- 17. The Petitioner has claimed IDC in respect of the transmission asset and has submitted Auditor's Certificates dated 3.8.2019 in support of the same. The Petitioner has submitted the computation of IDC along with year-wise details of IDC discharged.
- 18. The allowable IDC has been worked out considering the information submitted by the Petitioner in respect of the transmission asset separately on cash basis. The loan details submitted in Form-9C for 2014-19 tariff period and IDC computation sheet have been considered for the purpose of IDC calculation on cash basis and on accrued basis. The un-discharged IDC as on COD has been considered as ACE during the year in which it has been discharged.
- 19. Accordingly, based on the information furnished by the Petitioner, IDC considered is as follows:

(₹ in lakh)

IDC as per Auditor's	IDC Admissible	IDC Discharged on cash	IDC Undischarged	IDC Discharge During	
Certificate	Admiosible	basis	as on COD	2017-18	
Α	В	С	D=B-C	2017 10	
26659.92	26630.52	22379.60	4250.92	4250.92	

20. The Petitioner has claimed IEDC of ₹974.55 lakh in respect of the transmission asset and has submitted Auditor's Certificate in support of the same. The Petitioner has also submitted that the entire IEDC has been discharged as on COD in respect of the transmission asset. Accordingly, IEDC of ₹974.55 lakh has been allowed in respect of the transmission asset.

Initial Spares

- 21. Initial Spares are provided in Regulation 13(d) of the 2014 Tariff Regulations subject to the following ceiling norms:
 - "(d) Transmission system
 - (i) Transmission line 1.00%
 - (ii) Transmission Sub-station (Green Field) 4.00%
 - (iii) Transmission Sub-station (Brown Field) 6.00%
 - (iv) Series Compensation devices and HVDC Station 4.00%
 - (v) Gas Insulated Sub-station (GIS) 5.00%
 - (vi) Communication system 3.5%

22. The Petitioner has claimed the following Initial Spares in respect of the transmission asset:

(₹ in lakh)

Particulars	P&M Cost (A)	Initial Spares Claimed (B)	Ceiling (in %) (C)	Initial Spares Worked Out D = [(A-B)*C/(100-C)]	Excess Initial Spares
Sub-station	13762.33	657.60	6.00	836.47	0.00
Transmission Line	143233.38	989.73	1.00	1436.80	0.00

23. We have considered the submissions of the Petitioner. The Initial Spares are



within the ceiling specified under Regulation 13(d) of the 2014 Tariff Regulations. Accordingly, the same has been allowed as claimed for truing up of 2014-19 tariff period. The year-wise discharge of Initial Spares is as follows:

Sub-station

(₹ in lakh)

Plant &		Norms as per	per Initial Spares		Disc	charge of	Initial Spa	res*
Machinery cost considered as on cut- off date	Initial Spare claimed	2014 Tariff Regulations (in %)	allowable as per 2014 Tariff Regulations	Initial Spares allowed	As on COD	2017-18	2018-19	2019-20
13762.33	657.60	6.00	836.47	657.60	315.63	236.75	84.58	20.64

^{*} The Petitioner in the instant petition has submitted that Initial Spares discharged up to COD are included in the capital cost claimed as on COD and discharge of balance Initial Spares have been considered in ACE of the respective year.

Transmission Line

(₹ in lakh)

	Capital Cost/ Plant & Machinery cost	nery cost Initial per 2014 Spares Tariff	Initial Spares allowable as per 2014 Tariff	Initial Spares	Discharge of Initial Spares*				
	considered as on cut- off date	claimed	Regulations (in %)	Regulations	allowed	As on COD	2017-18	2018-19	2019-20
ĺ	143233.38	989.73	1.00	1436.80	989.73	8.17	790.56	190.12	0.88

^{*}The Petitioner in the instant petition has submitted that Initial Spares discharged up to COD are included in the capital cost claimed as on COD and discharge of balance initial spares have been considered in ACE of the respective year.

Capital Cost allowed as on COD

24. Accordingly, the capital cost allowed in respect of the transmission asset as on COD is as follows:

(₹ in lakh)

Capital Cost as on COD as per	Less: ID	C as on COD due to	Less: Disallowed	Less: Excess Initial Spares	Capital Cost as on COD (on cash	
Auditor's Certificate	Excess claim	Un-discharged IDC	IEDC	disallowed	basis)	
175279.80	29.40	4250.92	0.00	0.00	170999.48	

Additional Capital Expenditure ("ACE")

25. The Commission vide order dated 28.1.2020 in Petition No. 30/TT/2019 allowed ACE in respect of the transmission asset for 2014-19 tariff period and the



same is as follows:

		(₹ in lakh)
2016-17	2017-18	2018-19
24.54	11705.31	3043.94

26. The Petitioner has claimed the following ACE and has submitted Auditor's Certificate dated 3.8.2019 in support of the same:

		(₹ in lakh)
2016-17	2017-18	2018-19
24.54	7424.99	1895.51

- 27. The Petitioner has submitted that ACE in 2014-19 period has been claimed under Regulation 14(1)(i) and Regulation 14(1)(ii) of the 2014 Tariff Regulations and the same is within the cut-off date.
- 28. We have considered the submissions of Petitioner. The un-discharged IDC as on COD has been allowed as ACE during the year of discharge. ACE claimed by the Petitioner has been allowed under Regulation 14(1)(i) and Regulation 14(1)(ii) of the 2014 Tariff Regulations which pertain to balance and retention payment due to undischarged liabilities for works executed before the cut-off date/ work deferred for execution. Accordingly, ACE allowed in respect of the transmission asset for 2014-19 tariff period is as follows:

	ACE Allowed*		
Particulars	2016-17	2017-18	2018-19
Balance & Retention Payment for liabilities	0.00	2565.46	395.50
Work deferred for execution	24.54	4859.53	1500.01
IDC Discharged after COD	0.00	4250.92	0.00

^{*}The Petitioner in the instant petition has submitted that Initial Spares discharged up to COD are included in the capital cost claimed as on COD and discharge of balance initial spares have been considered in ACE of the respective year.

29. The capital cost allowed as on 31.3.2019 after inclusion of ACE in respect of the transmission asset is as follows:

(₹ in lakh)

Particulars	Capital cost as on COD on cash basis	2016-17	2017-18	2018-19	Total Capital cost including ACE as on 31.3.2019
Allowed vide order dated 28.1.2020 in Petition No. 30/TT/2019.	170998.61	24.54	11705.31	3043.94	185772.40
Claimed by the Petitioner in the instant petition.	175279.80	24.54	7424.99	1895.51	184624.84
Allowed after truing up in this order.	170999.48	24.54	11675.91*	1895.51	184595.44

^{*}includes IDC Discharge

Debt-Equity Ratio

30. The Petitioner has claimed debt-equity ratio of 70:30 as on COD and for ACE. Debt-equity ratio of 70:30 has been considered for capital cost as on COD and ACE during 2014-19 tariff period as provided under Regulation 19 of the 2014 Tariff Regulations. The details of debt-equity ratio in respect of the transmission asset as on COD and on 31.3.2019 are as follows:

Amount as on COD (₹ in lakh)	(in %)	Amount as on 31.3.2019 (₹ in lakh)	(in %)
119699.64	70.00	129216.82	70.00
51299.84	30.00	55378.62	30.00
170999.48	100.00	184595.44	100.00

Depreciation

31. Depreciation has been allowed out as per the methodology provided in Regulation 27 of the 2014 Tariff Regulations. Depreciation has been allowed considering capital expenditure as on COD and approved ACE during 2014-19 tariff period. The Gross Block during 2014-19 tariff period has been depreciated at Weighted Average Rate of Depreciation ("WAROD") and working of WAROD is given

at Annexure-I. WAROD has been worked out after taking into account the depreciation rates of asset as prescribed in the 2014 Tariff Regulations and depreciation allowed in respect of the transmission asset during 2014-19 tariff period is as follows:

(₹ in lakh)

Particulars	2016-17 (Pro-rata for 1 day)	2017-18	2018-19
Opening Gross Block	170999.48	171024.02	182699.93
ACE	24.54	11675.91	1895.51
Closing Gross Block	171024.02	182699.93	184595.44
Average Gross Block	171011.75	176861.97	183647.68
Weighted average rate of Depreciation (WAROD) (in %)	5.27	5.27	5.27
Lapsed useful life of the Asset - at the beginning of the year (Year)	0	0	1
Balance useful life of the Asset - at the beginning of the year (Year)	34	34	33
Aggregated Depreciable Value	153910.58	159175.78	165282.92
Depreciation during the year	24.70	9325.23	9682.96
Remaining Aggregated Depreciable Value	153885.87	149825.84	146250.02

32. The details of the depreciation allowed in respect of the transmission asset vide order dated 28.1.2020 in Petition No. 30/TT/2019, as claimed by the Petitioner in the instant petition and as trued up in the instant order is as follows:

(₹ in lakh)

Particulars	2016-17 (Pro-rata for 1 day)	2017-18	2018-19
Allowed vide order dated 28.1.2020 in Petition No.30/TT/2019.	24.70	9325.96	9704.82
Claimed by the Petitioner in the instant petition.	24.74	9339.48	9698.15
Approved after true-up in this order.	24.70	9325.23	9682.96

Interest on Loan ("IoL")

33. The Petitioner has claimed the Weighted Average Rate of IoL based on its



actual loan portfolio and rate of interest. Accordingly, IoL is calculated based on actual interest rate and in accordance with Regulation 26 of the 2014 Tariff Regulations. The details of IoL allowed in respect of the transmission asset are as follows:

(₹ in lakh)

Particulars	2016-17 (Pro-rata for 1 day)	2017-18	2018-19
Gross Normative Loan	119699.64	119716.82	127889.96
Cumulative Repayments up to Previous Year	0.00	24.70	9349.94
Net Loan-Opening	119699.64	119692.12	118540.02
Addition due to ACE	17.18	8173.14	1326.86
Repayment during the year	24.70	9325.23	9682.96
Net Loan-Closing	119692.12	118540.02	110183.92
Average Loan	119695.88	119116.07	114361.97
Weighted Average Rate of Interest on Loan (in %)	8.60	8.41	8.28
Interest on Loan	28.19	10016.71	9474.32

34. The details of IoL approved vide order dated 28.1.2020 in Petition No. 30/TT/2019, as claimed by the Petitioner in the instant petition and trued up in the instant order are as follows:

(₹ in lakh)

Particulars	2016-17 (Pro-rata for 1 day)	2017-18	2018-19
Allowed vide order dated 28.1.2020 in Petition No. 30/TT/2019	28.25	10219.51	9799.54
Claimed by the Petitioner in the instant petition	28.19	10016.97	9474.21
Approved after true-up in this order	28.19	10016.71	9474.32

Return on Equity ("RoE")

35. The Petitioner has claimed RoE in respect of the transmission asset in terms of Regulation 24 and Regulation 25 of the 2014 Tariff Regulations. The Petitioner has submitted that it is liable to pay income tax at MAT rates and has claimed the following effective tax rates for 2014-19 tariff period:



Year	Claimed effective tax (in %)	Grossed up RoE (in %) [(Base Rate)/(1-t)]
2014-15	21.018	19.625
2015-16	21.382	19.716
2016-17	21.338	19.705
2017-18	21.337	19.704
2018-19	21.549	19.758

36. The Commission vide order dated 27.4.2020 in Petition No. 274/TT/2019 has arrived at the effective tax rate for the Petitioner based on the notified MAT rates and the same is as follows:

Year	Notified MAT rates (in %) (inclusive of surcharge & cess)	Effective tax (in %)
2014-15	20.961	20.961
2015-16	21.342	21.342
2016-17	21.342	21.342
2017-18	21.342	21.342
2018-19	21.549	21.549

37. MAT rates as considered in order dated 27.4.2020 in Petition No. 274/TT/2019 are considered for the purpose of grossing up of the rate of RoE for truing up of the tariff of 2014-19 period in terms of the provisions of the 2014 Tariff Regulations which are as follows:

Year	Notified MAT Rate (in %) (inclusive of surcharge & cess)	Grossed-up RoE (in %) [(Base Rate)/(1-t)]
2014-15	20.961	19.610
2015-16	21.342	19.705
2016-17	21.342	19.705
2017-18	21.342	19.705
2018-19	21.549	19.758

38. Accordingly, RoE allowed in respect of the transmission asset is as follows:

Particulars	2016-17 (Pro-rata for 1 day)	2017-18	2018-19
Opening Equity	51299.84	51307.20	54809.97
Addition due to ACE	7.36	3502.77	568.65
Closing Equity	51307.20	54809.97	55378.62
Average Equity	51303.52	53058.59	55094.30



Return on Equity (Base Rate) (in %)	15.500	15.500	15.500
Tax Rate applicable (in %)	21.342	21.342	21.549
Rate of Return on Equity (Pre-tax)	19.705	19.705	19.758
Return on Equity (Pre-tax)	27.70	10455.19	10885.53

39. The details of RoE allowed vide order dated 28.1.2020 in Petition No. 30/TT/2019, as claimed by the Petitioner in the instant petition and trued up in the instant order are as follows:

(₹ in lakh)

Particulars	2016-17 (Pro-rata for 1 day)	2017-18	2018-19
Allowed vide order dated 28.1.2020 in Petition No. 30/TT/2019	27.56	10405.60	10839.45
Claimed by the Petitioner in the instant petition	28.19	10456.59	10887.28
Approved after true-up in this order	27.70	10455.19	10885.53

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

40. The details of O&M Expenses claimed by the Petitioner in respect of the transmission asset and allowed under Regulation 29(4)(a) of the 2014 Tariff Regulations for the purpose of tariff are as follows:

Particulars	2016-17 (Pro-rata for 1 day)	2017-18	2018-19
Transmission Line			
Raipur Pooling Station-Wardha 765 kV D/C Second Line (km)	361.00	361.00	361.00
Norm (₹ lakh/ km)			
D/C Bundled with 4 or more sub- conductor	1.13	1.17	1.21
Total Transmission Expenses	409.01	422.73	436.81
Sub-station			
Durg: Wardha-III SLR-Durg PS Raipur (DURG) PS (765 kV)	1	1	1
Durg: Wardha -IV SLR- Durg PS- Raipur (DURG) PS (765 kV)	1	1	1
Durg: Wardha Bay-III-Durg PS- Raipur (DURG) PS (765 kV)	1	1	1
Durg: Wardha Bay-IV-Durg PS-	1	1	1



Raipur (DURG) PS (765 kV)			
Wardha: DURG Bay-III-Wardha-		_	_
Wardha (765 kV)	1	1	1
Wardha: DURG Bay-IV-Wardha-			
Wardha (765 kV)	1	1	1
Norm (₹ lakh/ bay)			
765 kV	90.12	93.11	96.20
Total Sub-station Expenses	540.72	558.66	577.20
Total O&M Expenses	2.60	981.39	1014.01

41. The details of O&M Expenses in respect of the transmission asset approved vide order dated 28.1.2020 in Petition No. 30/TT/2019, as claimed by the Petitioner in the instant petition and trued up O&M Expenses allowed in the instant order are as follows:

(₹ in lakh)

Particulars	2016-17 (Pro-rata for 1 day)	2017-18	2018-19
Allowed vide order dated 28.1.2020 in Petition No. 30/TT/2019	2.54	977.02	1009.50
Claimed by the Petitioner in the instant petition	2.62	981.39	1014.01
Approved after true-up in this order	2.60	981.39	1014.01

Interest on Working Capital ("IWC")

- 42. The Petitioner has claimed IWC as per Regulation 28(1)(c) of the 2014 Tariff Regulations.
- 43. The trued-up IWC allowed in respect of the transmission asset for 2014-19 tariff period is as follows:

Particulars	2016-17 (Pro-rata for 1 day)	2017-18	2018-19
Working Capital for O&M Expenses (O&M Expenses for one month)	79.14	81.78	84.50
Working Capital for Maintenance Spares (15% of O&M Expenses)	142.46	147.21	152.10
Working Capital for Receivables (Equivalent to two months of annual fixed cost /annual transmission charges)	5175.72	5246.57	5294.12
Total Working Capital	5397.32	5475.56	5530.73



Interest on working Capital	1.89	700.87	12.80 707.93
Rate of Interest on working capital (in %)	12.80	12.80	12.00

44. The details of IWC approved vide order dated 28.1.2020 in Petition No. 30/TT/2019, as claimed by the Petitioner in the instant petition and trued up IWC allowed in the instant order are as follows:

(₹ in lakh)

Particulars	2016-17 (Pro-rata for 1 day)	2017-18	2018-19
Allowed vide order dated 28.1.2020 in Petition No. 30/TT/2019	1.89	704.00	714.26
Claimed by the Petitioner in the instant petition	1.89	701.22	708.30
Approved after true-up in this order	1.89	700.87	707.93

Approved Annual Fixed Charges for 2014-19 Tariff Period

45. The trued up Annual Fixed Charges (AFC) allowed in respect of the transmission asset for 2014-19 tariff period are as follows:

(₹ in lakh)

Particulars	2016-17 (Pro-rata for 1 day)	2017-18	2018-19
Depreciation	24.70	9325.23	9682.96
Interest on Loan	28.19	10016.71	9474.32
Return on Equity	27.70	10455.19	10885.53
O&M Expenses	2.60	981.39	1014.01
Interest on Working Capital	1.89	700.87	707.93
Total	85.08	31479.40	31764.75

46. Accordingly, AFC allowed vide order dated 28.1.2020 in Petition No. 30/TT/2019, trued up AFC claimed by the Petitioner in the instant petition and trued up AFC approved in the instant order are as follows:

(₹ in lakh)

Particulars	2016-17 (Pro-rata for 1 day)	2017-18	2018-19
Allowed vide order dated 28.1.2020 in Petition No. 30/TT/2019	84.94	31632.09	32067.57
Claimed by the Petitioner in the instant petition	85.14	31495.65	31781.95
Approved after true-up in this order	85.08	31479.40	31764.75

DETERMINATION OF ANNUAL FIXED CHARGES FOR 2019-24 TARIFF PERIOD

- 47. The Petitioner has submitted tariff forms for 2019-24 tariff period in respect of the transmission asset. Accordingly, as per Regulations 8(1)(i), Regulation 14(5) and Regulation 15 of the 2019 Tariff Regulations, tariff in respect of the transmission asset has been worked out for 2019-24 tariff period.
- 48. The Petitioner has claimed the following transmission charges in respect of the transmission asset for 2019-24 tariff period:

(₹ in lakh)

					(*
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Depreciation	9771.91	9796.02	9796.02	9796.02	9789.21
Interest on Loan	8802.95	8012.06	7207.38	6389.37	5555.40
Return on Equity	10429.05	10455.22	10455.22	10455.22	10455.22
Interest on Working Capital	469.31	460.52	449.57	438.47	425.93
O&M Expenses	760.32	786.47	813.58	841.83	870.74
Total	30233.54	29510.29	28721.77	27920.91	27096.50

49. The Petitioner has claimed the following IWC in respect of the transmission asset for 2019-24 tariff period:

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
O&M Expenses	63.36	65.54	67.80	70.15	72.56
Maintenance Spares	114.05	117.97	122.04	126.27	130.61
Receivables	3717.24	3638.25	3541.04	3442.30	3331.54
Total Working Capital	3894.65	3821.76	3730.88	3638.72	3534.71
Rate of Interest on working capital (in %)	12.05	12.05	12.05	12.05	12.05
Interest on working Capital	469.31	460.52	449.57	438.47	425.93



Capital Cost

- 50. Regulation 19 of the 2019 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 check in accordance with these regulations shall form the basis for 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, in the event of the actual equity in excess of 30% of the funds deployed, by treating the excess equity as normative loan, or (ii) being equal to the actual amount of loan in the event of the actual equity 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 decapitalisation determined in accordance with these regulations;
 - (g) Adjustment of revenue due to sale of infirm power in excess of fuel cost prior to the date of commercial operation as specified under Regulation 7 of these regulations;
 - (h) Adjustment of revenue earned by the transmission licensee by using the Asset-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 upto the receiving end of the generating station but does not include the transportation cost and any other appurtenant cost paid to the railway;
 - (k) Capital expenditure on account of biomass handling equipment and facilities, for co-firing;
 - (I) Capital expenditure on account of emission control system necessary to meet the revised emission standards and sewage treatment plant;
 - (m) Expenditure on account of 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 Perform, Achieve and Trade (PAT) scheme of Government of India shall be considered by the Commission subject to sharing of benefits accrued under the PAT scheme with the beneficiaries.



- (3) The Capital cost of an existing project shall include the following:
 - a. Capital cost admitted by the Commission prior to 1.4.2019 duly trued up by excluding liability, if any, as on 1.4.2019;
 - 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 ash disposal and utilization including handling and transportation facility;
 - 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; and
 - f. Capital cost incurred or projected to be incurred by a thermal generating station, on account of implementation of the norms under Perform, Achieve and Trade (PAT) scheme of Government of India shall be considered by the Commission subject to sharing of benefits accrued under the PAT scheme with the beneficiaries."
- (4) The capital cost in case of existing or new hydro generating station 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 Rajiv Gandhi Grameen Vidyutikaran Yojana (RGGVY) and Deendayal Upadhyaya Gram Jyoti Yojana (DDUGJY) project in the affected area.
 - (5) The following shall be excluded from the capital cost of the existing and new projects:
 - a. The Asset-forming part of the project, but not in use, as declared in the tariff petition;
 - b. De-capitalised Asset-after the date of commercial operation on account of replacement or removal on account of obsolescence or shifting from one project to another project:

Provided that in case replacement of transmission Asset-is recommended by Regional Power Committee, such Asset-shall be decapitalised only after its redeployment;

Provided further that unless shifting of an Asset-from one project to another is of permanent nature, there shall be no de-capitalization of the concerned asset.

- c. In 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;
- d. Proportionate cost of land of the existing project which is being used for generating power from generating station based on renewable energy; and
- e. Any grant received from the Central or State Government or any statutory body or authority for the execution of the project which does not carry any liability of repayment."



51. The Petitioner has claimed the capital cost as on 31.3.2019 of ₹184624.84 lakh in respect of the transmission asset. The same has been worked out by the Commission on 31.3.2019 and considered as the opening capital cost as on 1.4.2019 for determination of tariff for 2019-24 period in accordance with Regulation 19 of the 2019 Tariff Regulations.

Additional Capital Expenditure ("ACE")

52. Regulation 24 and Regulation 25 of the 2019 Tariff Regulations provide as follows:

"24. Additional Capitalization within the original scope and up to the cut-off date:

- (1) The Additional Capital Expenditure in respect of a new project or an existing project incurred or projected to be incurred, on the following counts within the original scope of work, after the date of commercial operation and up to the cut-off date may be admitted by the Commission, subject to prudence check:
 - (a) Undischarged liabilities recognized to be payable at a future date;
 - (b) Works deferred for execution;
- (c) Procurement of initial capital spares within the original scope of work, in accordance with the provisions of Regulation 23 of these regulations;
- (d) Liabilities to meet award of arbitration or for compliance of the directions or order of any statutory authority or order or decree of any court of law;
 - (e) Change in law or compliance of any existing law; and
 - (f) Force Majeure events:

Provided that in case of any replacement of the assets, the additional capitalization shall be worked out after adjusting the gross fixed assets and cumulative depreciation of the assets replaced on account of de-capitalization.

(2) The generating company or the transmission licensee, as the case may be shall submit the details of works asset wise/work wise included in the original scope of work along with estimates of expenditure, liabilities recognized to be payable at a future date and the works deferred for execution."

"25. Additional Capitalisation within the original scope and after the cut-off date:

(1) The ACE incurred or projected to be incurred in respect of an existing project or a

new project on the following counts within the original scope of work and after thecutoff date may be admitted by the Commission, subject to prudence check:



- a) Liabilities to meet award of arbitration or for compliance of the directions or order of any statutory authority, or order or decree of any court of law;
 - b) Change in law or compliance of any existing law;
- c) Deferred works relating to ash pond or ash handling system in the original scope of work;
- d) Liability for works executed prior to the cut-off date;
- e) Force Majeure events;
- f) Liability for works admitted by the Commission after the cut-off date to the extent of discharge of such liabilities by actual payments; and g) Raising of ash dyke as a part of ash disposal system.
- (2) In case of replacement of assets deployed under the original scope of the existing project after cut-off date, the additional capitalization may be admitted by the Commission, after making necessary adjustments in the gross fixed assets and the cumulative depreciation, subject to prudence check on the following grounds:
- (a) The useful life of the assets is not commensurate with the useful life of the project and such assets have been fully depreciated in accordance with the provisions of these regulations;
- (b) The replacement of the asset or equipment is necessary on account of change in law or Force Majeure conditions;
 - (c) The replacement of such asset or equipment is necessary on account of
 - (d) The replacement of such asset or equipment has otherwise been allowed by the Commission."
- 53. The Petitioner has claimed projected ACE for 2019-20 period on account of balance and retention payments due to undischarged liability projected for works executed within the cut-off date and unexecuted works within cuff-off date. The details of the projected ACE in respect of the transmission asset are as follows:

	(₹ in lakh)
ACE	
2019-20	
929.03	

54. MPPMCL has submitted that the Petitioner has proposed additional amount of ₹929.03 lakh during 2019-20 under ACE while finalizing AFC for 2019-24 tariff period. MPPMCL has further in Form-7 has shown this amount as sum total of ₹650.32 lakh as total loan and ₹278.71 lakh as equity and the Petitioner has failed to substantiate the reasons for infusion of equity or for the purpose of the loan. MPPMCL has prayed that the projected ACE should be granted to the Petitioner at the time of truing up of

the tariff for 2019-24 period.

- 55. In response, the Petitioner has submitted that ACE claimed by it is in line with the 2019 Tariff Regulations and, hence, the same may be allowed.
- 56. We have considered the submissions of the Petitioner and MPPMCL. ACE claimed on account of balance and retention payments and deferred works is allowed under Regulations 24(1)(a) and 24(1)(b) of the 2019 Tariff Regulations subject to truing-up. ACE allowed in respect of the transmission asset is as follows:

	(₹ in lakh)
Particulars	ACE*
Particulars	2019-20
Balance & Retention Payment	907.51

^{*}The Petitioner in the instant petition has submitted that Initial Spares discharged up to COD are included in the capital cost claimed as on COD and discharge of balance initial spares have been considered in ACE of the respective year.

Capital Cost for 2019-24 Tariff Period

57. Capital cost of the transmission asset considered for 2019-24 tariff period is as follows:

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Capital Cost	Capital Cost Admitted ACE		
as on 1.4.2019	2019-20	as on 31.3.2024	
184595.44	929.03	185524.47	

Debt-Equity Ratio

- 58. Regulation 18 of the 2019 Tariff Regulations provides as follows:
 - "18. Debt-Equity Ratio: (1) For new projects, the debt-equity ratio of 70:30 as on date of commercial operation shall be considered. If the equity actually deployed is more than 30% of the capital cost, equity in excess of 30% shall be treated as normative loan:

Provided that:

- i. where equity actually deployed is less than 30% of the capital cost, actual equity shall be considered for determination of tariff:
- ii. the equity invested in foreign currency shall be designated in



- Indian rupees on the date of each investment:
- iii. any grant obtained for the execution of the project shall not be considered as a part of capital structure for the purpose of debt: equity ratio.

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

- (2) The generating company or the transmission licensee, as the case may be, shall submit the resolution of the Board of the company or approval of the competent authority in other cases regarding 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 case of the generating station and the transmission system including communication system declared under commercial operation prior to 1.4.2019, debt: equity ratio allowed by the Commission for determination of tariff for the period ending 31.3.2019 shall be considered:

Provided that in case of a generating station or a transmission system including communication system which has completed its useful life as on or after 1.4.2019, if the equity actually deployed as on 1.4.2019 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 72 of these regulations.

- (4) In case of the generating station and the transmission system including communication system declared under commercial operation prior to 1.4.2019, but where debt: equity ratio has not been determined by the Commission for determination of tariff for the period ending 31.3.2019, 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 1.4.2019 as may be admitted by the Commission as additional capital expenditure for determination of tariff, and renovation and modernization expenditure for life extension shall be serviced in the manner specified in clause (1) of this Regulation."
- 59. The details of debt-equity considered for the purpose of computation of tariff for 2019-24 period in respect of the transmission asset are as follows:



Particulars	Capital Cost as on 1.4.2019 (₹ in lakh)	(in %)	Total Capital Cost as on 31.3.2024 (₹ in lakh)	(in %)
Debt	129216.82	70.00	129867.14	70.00
Equity	55378.62	30.00	55657.33	30.00
Total	184595.44	100.00	185524.47	100.00

Depreciation

- 60. Regulation 33 of the 2019 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 case of the tariff of all the units of a generating station or all elements of a transmission system including 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 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 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, weighted average life for the generating station of the transmission system shall be applied. Depreciation shall be chargeable from the first year of commercial operation. In case of commercial operation of the Asset-for part of the year, depreciation shall be charged on pro rata basis."
- (3) The salvage value of the asset shall be considered as 10% and depreciation shall be allowed up to 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 further that in case of hydro generating stations, the salvage value shall be as provided in the agreement, if any, signed by the developers with the State Government for development of the generating station

Provided also that the capital cost of the assets of the hydro generating station for the purpose of computation of depreciated value shall correspond to the percentage of sale of electricity under long-term power purchase agreement at regulated tariff:

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



- (4) Land other than the land held under lease and the land for reservoir in case of hydro generating station shall not be a depreciable asset and its cost shall be excluded from the capital cost while computing depreciable value of the asset.
- (5) Depreciation shall be calculated annually based on Straight Line Method and at rates specified in Appendix-I to these regulations for the Asset-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 station shall be spread over the balance useful life of the asset"

- (6) In case of the existing projects, the balance depreciable value as on 1.4.2019 shall be worked out by deducting the cumulative depreciation as admitted by the Commission upto 31.3.2019 from the gross depreciable value of the assets.
- (7) The generating company or the transmission licensee, as the case may be, shall submit the details of proposed capital expenditure five years before the completion of useful life of the project along with justification and proposed life extension. The Commission based on prudence check of such submissions shall approve the depreciation on capital expenditure.
- (8) 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 services."
- 61. We have considered the submissions of the Petitioner. WAROD has been worked out and is placed as Annexure-II after considering the depreciation rates as prescribed in the 2019 Tariff Regulations. Depreciation has been worked out considering the admitted capital expenditure as on 31.3.2019 and accumulated depreciation up to 31.3.2019. Depreciation allowed in respect of the transmission asset is as follows:

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Opening Gross Block	184595.44	185524.47	185524.47	185524.47	185524.47
Addition during the year 2019-24 due to projected					
ACE.	929.03	0.00	0.00	0.00	0.00
Closing Gross Block	185524.47	185524.47	185524.47	185524.47	185524.47
Average Gross Block	185059.95	185524.47	185524.47	185524.47	185524.47
Weighted average rate of Depreciation (WAROD) (in %).	5.28	5.28	5.28	5.28	5.28



Lapsed useful life at the beginning of the year (Year).	2	3	4	5	6
Balance useful life at the beginning of the year (Year).	32	31	30	29	28
Aggregated Depreciable Value.	166567.99	166986.05	166986.05	166986.05	166986.05
Combined Depreciation during the year	9770.35	9794.47	9794.47	9794.47	9794.47
Aggregate Cumulative Depreciation at the end of the year.	28803.24	38597.71	48392.18	58186.64	67981.11
Remaining Aggregate Depreciable Value at the end of the year.	137764.75	128388.34	118593.88	108799.41	99004.94

Interest on Loan ("IoL")

- 62. Regulation 32 of the 2019 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 as gross normative loan for calculation of interest on loan.
 - (2) The normative loan outstanding as on 1.4.2019 shall be worked out by deducting the cumulative repayment as admitted by the Commission up to 31.3.2019 from the gross normative loan.
 - (3) The repayment for each of the year of the tariff period 2019-24 shall be deemed to be equal to the depreciation allowed for the corresponding year/period. In case of de- capitalization of asset, 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 upto the date of de-capitalisation of such asset.
 - (4) Notwithstanding any moratorium period availed by the generating company or the transmission licensee, as the case may be, the repayment of 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 after providing appropriate accounting adjustment for interest capitalized:

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

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



- (6) The interest on 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".
- 63. The weighted average rate of interest of IoL has been considered based on the rates prevailing as on 1.4.2019. The Petitioner has prayed that change in interest rate due to floating rate of interest applicable, if any, during 2019-24 tariff period will be adjusted. Accordingly, the floating rate of interest, if any, shall be considered at the time of true-up. In view of above, IoL has been worked out in accordance with Regulation 32 of the 2019 Tariff Regulations. IoL allowed in respect of the transmission asset is as follows:

(₹ in lakh)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Gross Normative Loan	129216.82	129867.14	129867.14	129867.14	129867.14
Cumulative Repayments upto Previous Year	19032.89	28803.24	38597.71	48392.18	58186.64
Net Loan-Opening	110183.92	101063.89	91269.43	81474.96	71680.49
Addition due to ACE	650.32	0.00	0.00	0.00	0.00
Repayment during the year	9770.35	9794.47	9794.47	9794.47	9794.47
Net Loan-Closing	101063.89	91269.43	81474.96	71680.49	61886.03
Average Loan	105623.91	96166.66	86372.19	76577.73	66783.26
Weighted Average Rate of Interest on Loan (in %)	8.34	8.33	8.35	8.35	8.32
Interest on Loan	8803.77	8013.00	7208.48	6390.56	5556.42

Return on Equity ("RoE")

- 64. Regulation 30 and Regulation 31 of the 2019 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 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 the storage type hydro generating stations including pumped storage hydro generating stations and run-of-river generating station with pondage:



Provided that return on equity in respect of Additional Capitalization after cut- off date beyond the original scope excluding Additional Capitalization due to Change in Law, shall be computed at the weighted average rate of interest on actual loan portfolio of the generating station or the transmission system;

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 Restricted Governor Mode Operation (RGMO) or 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;

ii.in case of existing generating station, as and when any of the requirements under (i) above of this Regulation are found lacking based on the report submitted by the concerned RLDC, rate of return on equity shall be reduced by 1.00% for the period for which the deficiency continues;

- iii. in case of a thermal generating station, with effect from 1.4.2020:
- a) rate of return on equity shall be reduced by 0.25% in case of failure to achieve the ramp rate of 1% per minute;
- b) an additional rate of return on equity of 0.25% shall be allowed for every incremental ramp rate of 1% per minute achieved over and above the ramp rate of 1% per minute, subject to ceiling of additional rate of return on equity of 1.00%:

Provided that the detailed guidelines in this regard shall be issued by National Load Dispatch Centre by 30.6.2019.

- 31. Tax on Return on Equity:(1) The base 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. For this purpose, the effective tax rate shall be considered on the basis of actual tax paid in respect of the financial year in line with the provisions of the relevant Finance Acts by the concerned generating company or the transmission licensee, as the case may be. The actual tax paid on income from other businesses including deferred tax liability (i.e. income from business other than business of generation or transmission, as the case may be) shall be excluded for the calculation of effective tax rate.
 - (2) Rate of return on equity shall be rounded off to three decimal places and shall be computed as per the formula given below:

Rate of pre-tax return on equity = Base rate / (1-t)

Where "t" is the effective tax rate in accordance with clause (1) of this



Regulation and 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 company on pro-rata basis by excluding the income of non-generation or non-transmission business, as the case may be, and the corresponding tax thereon. In case of generating company or transmission licensee paying Minimum Alternate Tax (MAT), "t" shall be considered as MAT rate including surcharge and cess.

Illustration-

(i) In case of a generating company or a transmission licensee paying Minimum Alternate Tax (MAT) @ 21.55% including surcharge and cess:

Rate of return on equity = 15.50/(1-0.2155) = 19.758%

- (ii) In case of a generating company or a transmission licensee paying normal corporate tax including surcharge and cess:
 - (a) Estimated Gross Income from generation or transmission business for FY 2019-20 is Rs 1,000 crore;
 - (b) Estimated Advance Tax for the year on above is Rs 240 crore;
 - (c) Effective Tax Rate for the year 2019-20 = Rs 240 Crore/Rs 1000 Crore = 24%;
 - (d) Rate of return on equity = 15.50/(1-0.24) = 20.395%.
- (3) 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 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 2019-24 on actual gross income of any financial year. However, penalty, if any, arising on account of delay in deposit or short deposit of tax amount shall not be claimed by the generating company or the transmission licensee, as the case may be. 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 year-to-year basis."
- 65. The Petitioner has submitted that MAT rate is applicable to it. MAT rate applicable in 2019-20 has been considered for the purpose of RoE which shall be trued up with actual tax rate in accordance with Regulation 31(3) of the 2019 Tariff Regulations. RoE allowed in respect of the transmission asset is as follows:

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Opening Equity	55378.62	55657.33	55657.33	55657.33	55657.33
Addition due to ACE	278.71	0.00	0.00	0.00	0.00
Closing Equity	55657.33	55657.33	55657.33	55657.33	55657.33
Average Equity	55517.98	55657.33	55657.33	55657.33	55657.33



Return on Equity (Base Rate) (in %)	15.500	15.500	15.500	15.500	15.500
Tax Rate applicable (in %)	17.470	17.470	17.470	17.470	17.470
Rate of Return on Equity (Pre-tax)					
	18.780	18.780	18.780	18.780	18.780
Return on Equity (Pre-tax)	10427.39	10453.56	10453.56	10453.56	10453.56

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

O&M Expenses claimed by the Petitioner in respect of the transmission asset 66. are as follows:

(₹ in lakh)

					` ′
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Transmission Line					
Raipur Pooling Station-Wardha 765 kV D/C Second Line (km)	361.00	361.00	361.00	361.00	361.00
Norm (₹ lakh/km)					
D/C Six Conductor	1.322	1.368	1.416	1.466	1.517
Total Transmission Expense	477.24	493.85	511.18	529.23	547.64
Sub-station Bays					
Durg: Wardha-III SLR-Durg PS- Raipur (DURG) PS (765 kV)	1	1	1	1	1
Durg: Wardha-IV SLR- Durg PS- Raipur (DURG) PS (765 kV)	1	1	1	1	1
Durg: Wardha Bay-III-Durg PS- Raipur (DURG) PS (765 kV)	1	1	1	1	1
Durg: Wardha Bay-IV-Durg PS Raipur (DURG) PS (765 kV)	1	1	1	1	1
Wardha: DURG Bay-III-Wardha- Wardha (765 kV)	1	1	1	1	1
Wardha: DURG Bay-IV-Wardha- Wardha (765 kV)	1	1	1	1	1
Norm (₹ lakh/bay)					
765 Kv	45.01	46.60	48.23	49.93	51.68
Total Sub-station O&M Expenses	270.06	279.60	289.38	299.58	310.08
Communication System					
PLCC (₹ in lakh)	651.11	651.11	651.11	651.11	651.11
Norms (in %)	2	2	2	2	2
Total Communication System	13.02	13.02	13.02	13.02	13.02
Total O&M Expenses	760.32	786.47	813.58	841.83	870.74

67. Regulations 35(3)(a) and Regulation 35(4) of the 2019 Tariff Regulations provide as follows:



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

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Norms for sub-station Bays (₹ Lakh	ber bay)				
765 kV	45.01	46.60	48.23	49.93	51.68
400 kV	32.15	33.28	34.45	35.66	36.91
220 kV	22.51	23.30	24.12	24.96	25.84
132 kV and below	16.08	16.64	17.23	17.83	18.46
Norms for Transformers (₹ Lakh per	MVA)		-		
765 kV	0.491	0.508	0.526	0.545	0.564
400 kV	0.358	0.371	0.384	0.398	0.411
220 kV	0.245	0.254	0.263	0.272	0.282
132 kV and below	0.245	0.254	0.263	0.272	0.282
Norms for AC and HVDC lines (₹ La	kh per km)		1	<u>'</u>	
Single Circuit (Bundled Conductor	0.881	0.912	0.944	0.977	1.011
with six or more sub-conductors)	0.001	0.912	0.944	0.977	1.011
Single Circuit (Bundled conductor with four sub-conductors)	0.755	0.781	0.809	0.837	0.867
Single Circuit (Twin & Triple Conductor)	0.503	0.521	0.539	0.558	0.578
Single Circuit (Single Conductor)	0.252	0.260	0.270	0.279	0.289
Double Circuit (Bundled conductor with four or more sub-conductors)	1.322	1.368	1.416	1.466	1.517
Double Circuit (Twin & Triple Conductor)	0.881	0.912	0.944	0.977	1.011
Double Circuit (Single Conductor)	0.377	0.391	0.404	0.419	0.433
Multi Circuit (Bundled Conductor with four or more sub-conductor)	2.319	2.401	2.485	2.572	2.662
Multi Circuit (Twin & Triple Conductor)	1.544	1.598	1.654	1.713	1.773
Norms for HVDC stations					
HVDC Back-to-Back stations (Rs Lakh per 500 MW) (Except Gazuwaka BTB)	834	864	894	925	958
Gazuwaka HVDC Back-to-Back station (₹ Lakh per 500 MW)	1,666	1,725	1,785	1,848	1,913
500 kV Rihand-Dadri HVDC bipole scheme (Rs Lakh) (1500 MW)	2,252	2,331	2,413	2,498	2,586
±500 kV Talcher- Kolar HVDC bipole scheme (Rs Lakh) (2000 MW)	2,468	2,555	2,645	2,738	2,834

±500 kV Bhiwadi-Balia HVDC bipole scheme (Rs Lakh) (2500 MW)	1,696	1,756	1,817	1,881	1,947
±800 kV, Bishwanath-Agra HVDC bipole scheme (Rs Lakh) (3000 MW)	2,563	2,653	2,746	2,842	2,942

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 further that:

- i. the operation and maintenance expenses for new HVDC bi-pole schemes commissioned after 1.4.2019 for a particular year shall be allowed pro-rata on the basis of normative rate of operation and maintenance expenses of similar HVDC bi-pole scheme for the corresponding year of the tariff period;
- ii. the O&M expenses norms for HVDC bi-pole line shall be considered as Double

Circuit quad AC line;

- iii. the O&M expenses of ±500 kV Mundra-Mohindergarh HVDC bipole scheme (2000 MW) shall be allowed as worked out by multiplying 0.80 of the normative O&M expenses for ±500 kV Talchar-Kolar HVDC bi-pole scheme (2000 MW);
- iv. the O&M expenses of ±800 kV Champa-Kurukshetra HVDC bi-pole scheme (3000 MW) shall be on the basis of the normative O&M expenses for ±800 kV, Bishwanath-Agra HVDC bi-pole scheme;
- v. the O&M expenses of ±800 kV, Alipurduar-Agra HVDC bi-pole scheme (3000 MW) shall be allowed as worked out by multiplying 0.80 of the normative O&M expenses for ±800 kV, Bishwanath-Agra HVDC bi-pole scheme; and
- vi. the O&M expenses of Static Synchronous Compensator and Static Var Compensator shall be worked at 1.5% of original project cost as on commercial operation which shall be escalated at the rate of 3.51% to work out the O&M expenses during the tariff period. The O&M expenses of Static Synchronous Compensator and Static Var Compensator, if required, may be reviewed after three years.
- (b) The total allowable operation and maintenance expenses for the transmission system shall be calculated by multiplying the number of sub-station bays, transformer capacity of the transformer (in MVA) and km of line length with the applicable norms for the operation and maintenance expenses per bay, per MVA and per km respectively.
- (c) The Security Expenses and Capital Spares for transmission system shall be allowed separately after prudence check:



- Provided that the transmission licensee shall submit the assessment of the security requirement and estimated security expenses, the details of year-wise actual capital spares consumed at the time of truing up with appropriate justification.
- (4) **Communication system:** The operation and maintenance expenses for the communication system 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."
- 68. We have considered the submissions of the Petitioner. The Petitioner has claimed O&M Expenses separately for PLCC under Regulation 35(4) of the 2019 Tariff Regulations @2% of its original project cost in the instant petition. The Petitioner has made similar claim in other petitions as well. Though PLCC is a communication system, it has been considered as part of the Sub- station in the 2014 Tariff Regulations and the 2019 Tariff Regulations and the norms for Sub-station have been specified accordingly. Accordingly, the Commission vide order dated 24.1.2021 in Petition No. 126/TT/2020 has already concluded that no separate O&M Expenses can be allowed for PLCC under Regulation 35(4) of the 2019 Tariff Regulations even though PLCC is a communication system. Therefore, the Petitioner's claim for separate O&M Expenses for PLCC @2% is not allowed.

69. O&M Expenses allowed in respect of the transmission asset are as follows:

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Transmission Line					
Raipur Pooling Station-Wardha 765 kV D/C Second Line	361.00	361.00	361.00	361.00	361.00
Norm (₹ lakh/km)					
D/C Six Conductor	1.322	1.368	1.416	1.466	1.517
Total Transmission Expenses	477.24	493.85	511.18	529.23	547.64
Sub-station Bays					
Durg: Wardha-III SLR-Durg PS- Raipur (DURG) PS (765 kV)	1	1	1	1	1
Durg: Wardha -IV SLR- Durg PS- Raipur (DURG) PS (765 kV)	1	1	1	1	1
Durg: Wardha Bay-III-Durg PS-	1	1	1	1	1

Raipur (DURG) PS (765 kV)					
Durg: Wardha Bay-IV-Durg PS-	1	1	1	1	1
Raipur (DURG) PS (765 kV)	•		•	'	'
Wardha: DURG Bay-III-Wardha-	1	1	1	1	1
Wardha (765 kV)	•	ı	•	•	•
Wardha: DURG Bay-IV-Wardha-	1	1	1	1	1
Wardha (765 kV)	ı	ı	Į.	ı	
Norm (₹ lakh/bay)					
765 kV	45.01	46.60	48.23	49.93	51.68
Total Sub-station O&M					
Expenses	270.06	279.60	289.38	299.58	310.08
Total O&M Expenses	747.30	773.45	800.56	828.81	857.72

Interest on Working Capital ("IWC")

- 70. Regulations 34(1)(c), Regulation 34(3), Regulation 34(4) and Regulation 3(7) of the 2019 Tariff Regulations provide as follows:
 - **"34.** Interest on Working Capital: (1) The working capital shall cover:

.

- (c) For Hydro Generating Station (including Pumped Storage Hydro Generating Station) and Transmission System:
 - (i) Receivables equivalent to 45 days of annual fixed cost;
 - (ii) Maintenance spares @ 15% of operation and maintenance expenses including security expenses; and
 - (iii) Operation and maintenance expenses, including security expenses for one month."
- (3) Rate of interest on working capital shall be on normative basis and shall be considered as the bank rate as on 1.4.2019 or as on 1st April of the year during the tariff period 2019-24 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 bank rate as on 1st April of each of the financial year during the tariff period 2019-24.

- (4) Interest on working capital shall be payable on normative basis notwithstanding that the generating company or the transmission licensee has not taken loan for working capital from any outside agency."
- "3. Definition In these regulations, unless the context otherwise requires:-



- (7) 'Bank Rate' means the one-year marginal cost of lending rate (MCLR) of the State Bank of India issued from time to time plus 350 basis points;"
- 71. The Petitioner has submitted that it has computed IWC for 2019-24 tariff period considering the SBI Base Rate plus 350 basis points as on 1.4.2019. The Petitioner has considered the rate of IWC as 12.05%. IWC is worked out in accordance with Regulation 34 of the 2019 Tariff Regulations. The rate of IWC considered is 12.05% (SBI 1 year MCLR applicable as on 1.4.2019 of 8.55% plus 350 basis points) for 2019-20 and 11.25% (SBI 1 year MCLR applicable as on 1.4.2020 of 7.75% plus 350 basis points) for 2020-24. The components of the working capital and interest allowed thereon in respect of the transmission asset are as follows:

(₹ in lakh)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Working Capital for O&M Expenses (O&M expenses for one month)	62.28	64.45	66.71	69.07	71.48
Working Capital for Maintenance Spares (15% of O&M expenses)	112.10	116.02	120.08	124.32	128.66
Working Capital for Receivables (Equivalent to 45 days of annual fixed cost / annual transmission charges)	3715.27	3632.48	3531.89	3433.34	3323.63
Total Working Capital	3889.64	3812.95	3718.68	3626.73	3523.76
Rate of Interest on Working Capital (in %)	12.05	11.25	10.50	10.50	10.50
Interest on working capital	468.70	428.96	390.46	380.81	369.99

Annual Fixed Charges for 2019-24 Tariff Period

72. The transmission charges allowed in respect of the transmission asset for 2019- 24 tariff period is as follows:

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Depreciation	9770.35	9794.47	9794.47	9794.47	9794.47



Interest on Loan	8803.77	8013.00	7208.48	6390.56	5556.42
Return on Equity	10427.39	10453.56	10453.56	10453.56	10453.56
O&M Expenses	747.30	773.45	800.56	828.81	857.72
Interest on Working Capital	468.70	428.96	390.46	380.81	369.99
Total	30217.51	29463.43	28647.52	27848.20	27032.16

Filing Fee and Publication Expenses

73. The Petitioner has sought reimbursement of fee paid by it for filing the petition and publication expenses, in terms of Regulation 70(1) of the 2019 Tariff Regulations. The Petitioner shall be entitled for reimbursement of the filing fees and publication expenses in connection with the present petition, directly from the beneficiaries on pro-rata basis in accordance with Regulation 70(1) of the 2019 Tariff Regulations.

Licence Fee and RLDC Fees and Charges

74. The Petitioner shall be entitled for reimbursement of license fee in accordance with Regulation 70(4) of the 2019 Tariff Regulations for 2019-24 tariff period. The Petitioner shall also be entitled for recovery of RLDC fee and charges in accordance with Regulations 70(3) of the 2019 Tariff Regulations for 2019-24 tariff period.

Goods and Services Tax

- 75. The Petitioner has submitted that if GST is levied at any rate and at any point of time in future on charges of transmission of electricity, the same shall be borne and additionally paid by the Respondent(s) to the Petitioner and the same shall be charged and billed separately by the Petitioner. Further additional taxes, if any, are to be paid by the Petitioner on account of demand from Government/Statutory Authorities, the same may be allowed to be recovered from the beneficiaries.
- 76. MPPMCL has submitted that the claim of GST is premature and need not be

considered at this juncture. In response, the Petitioner has reiterated its submissions.

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

Security Expenses

- 78. The Petitioner has submitted that security expenses in respect of transmission asset are not claimed in the instant petition and it would file a separate petition for claiming the overall security expenses and the consequential IWC.
- 79. We have considered the above submissions of Petitioner. The Petitioner has claimed consolidated security expenses for all the transmission asset owned by it on projected basis for the 2019-24 tariff period on the basis of actual security expenses incurred in 2018-19 in Petition No. 260/MP/2020. The said petition has already been disposed of by the Commission vide order dated 3.8.2021. Therefore, security expenses will be shared in terms of the order dated 3.8.2021 in Petition No. 260/MP/2020, Therefore, the Petitioner's prayer in the instant petition for allowing it to file a separate petition for claiming the overall security expenses and consequential IWC has become infructuous.

Capital Spares

80. The Petitioner has sought reimbursement of capital spares at the end of tariff period. The Petitioner's claim, if any, shall be dealt with in accordance with the provisions of the 2019 Tariff Regulations.

Sharing of Transmission Charges

81. With effect from 1.7.2011, sharing of transmission charges for inter-State transmission systems was governed by the provisions of the 2010 Sharing Regulations. With effect from 1.11.2020, sharing of transmission charges is governed by the 2020 Sharing Regulations. Accordingly, the liabilities of the DICs for arrears of transmission charges determined through this order shall be computed DIC-wise in accordance with the provisions of respective Tariff Regulations and Sharing Regulations and shall be recovered from the concerned DICs through Bills under Regulation 15(2)(b) of the 2020 Sharing Regulations. Billing, collection and disbursement of the transmission charges for subsequent period shall be recovered in terms of provisions of the 2020 Sharing Regulations as provided in Regulation 57 of the 2019 Tariff Regulations.

82. To summarize,

(a) The trued-up AFC allowed in respect of the transmission asset for 2014-19 tariff period are as follows:

(₹ in lakh)

Particulars	2016-17 (Pro-rata for 1 day)	2017-18	2018-19
AFC	85.08	31479.40	31764.75

(b) AFC allowed in respect of the transmission asset for 2019-24 tariff period in the instant order are as follows:

(₹ in lakh)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
AFC	30217.51	29463.43	28647.52	27848.20	27032.16

83. Annexure-I and Annexure-II given hereinafter shall form part of the order.

This order disposes of Petition No. 27/TT/2021 in terms of the above 84. discussions and findings.

sd/sd/sd/sd/-(P. K. Singh) (Arun Goyal) Member (P.K. Pujari) Chairperson (I.S. Jha) Member `Member

Petition No.	27/TT/2021
Period	2014-19
	True- up Tariff

Annexure - I

2014-19	Admitted Capital Cost		ACE (₹ in lakh)	Admitted Capital Cost	Rate of Depreciation (in %)		Annual Dep	reciation as p	per Regulation	ıs
Capital Expenditure as on COD	as on COD (₹ inlakh)	2016-17	2017-18	2018-19	as on 31.3.2019 (₹ in lakh)	31.3.2019	2014-15 (₹ in lakh)	2015-16 (₹ in lakh)	2016-17 (₹ in lakh)	2017-18 (₹ in lakh)	2018-19 (₹ in lakh)
Building	1003.43	0.00	24.94	47.80	1076.18	3.34	-	-	32.85	33.93	35.15
Transmission Line	156344.03	24.54	10048.95	1004.24	167421.76	5.28	-	-	8256.30	8521.55	8813.36
Substation	12891.53	0.00	1583.11	831.54	15306.18	5.28	-	-	678.90	722.47	786.21
PLCC	623.57	0.00	15.50	11.93	651.00	6.33	-	-	40.15	39.96	40.83
IT Equipment & Software	136.91	0.00	3.40	0.00	140.32	5.28	-	1	7.30	7.32	7.41
TOTAL	170999.48	24.54	11675.91	1895.51	184595.44		•	-	9015.50	9325.23	9682.96
					Average Gr (₹ in lakh)	oss Block	-		171011.75	176861.97	183647.68
					Weighted Average Rate of Depreciation (in %)		-	-	5.27	5.27	5.27

Petition No.	27/TT/2021
Period	2019-24 Tariff

Annexure - II

2019-24	Admitted Capital Cost as on 1.4.2019 (₹ in lakh)	ACE	Admitted Capital Cost as on 31.3.2019 (₹ in lakh)	Rate of Depreciation (in %)	Annual Depreciation as per Regulations				
Capital Expenditure as on 1.4.2019		2019-20			2019-20 (₹ in lakh)	2020-21 (₹ in lakh)	2021-22 (₹ in lakh)	2022-23 (₹ in lakh)	2023-24 (₹ in lakh)
Building	1076.18	42.34	1118.52	3.34	36.65	37.36	37.36	37.36	37.36
Transmission Line	167421.76	826.70	168248.46	5.28	8861.69	8883.52	8883.52	8883.52	8883.52
Substation	15306.18	59.99	15366.17	5.28	809.75	811.33	811.33	811.33	811.33
PLCC	651.00	0.00	651.00	6.33	41.21	41.21	41.21	41.21	41.21
IT Equipment & Software	140.32	0.00	140.32	15.00	21.05	21.05	21.05	21.05	21.05
TOTAL	184595.44	929.03	185524.47		9770.35	9794.47	9794.47	9794.47	9794.47
			Average Gross Block (₹ in lakh)		185059.95	185524.47	185524.47	185524.47	185524.47
			Weighted Average Rate of Depreciation (in %)		5.28	5.28	5.28	5.28	5.28